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6. AUTHOR(S)

Hernandez, Tomas
Jent, John
Miller, Amanda
Helfrich, Morgan
Mansy, Samir
Moralwar, Aditya
Noriega, Ana

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7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)

Prudent Technologies, Inc.
8080 Ward Parkway, Suite 201
Kansas City, MO 64114-2020

8. PERFORMING ORGANIZATION REPORT NUMBER

N/A

9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)

U.S. Army Corps of Engineers - Louisville District
600 Martin Luther King Jr. Place
Louisville, KY 40202

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14. ABSTRACT

The Final Characterization Sampling Report describes ISM sampling activities performed by Prudent which were conducted at Load Lines 1, 2, 3, 4 and Other Areas of Concern in June - July 2011.

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Final Characterization Sampling Report, Load Lines 1, 2, 3, 4 and 12, Subsurface ISM Sampling, Unrestricted National Guard Scenario

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John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

May 14, 2013

CERTIFIED MAIL
7012 1010 0002 2260 4183

Mr. Mark Patterson
Facility Manager
Ravenna Army Ammunition Plant
8451 State Route 5
Ravenna, OH 44266

Re: Approval of the "Final Characterization Sampling Report of Surface and Subsurface Incremental Sampling Methodology at RVAAP-08, 09, 10, 11, and 12, Load Lines 1, 2, 3, 4, and 12 at the Ravenna Army Ammunition Plant, Ravenna, Ohio," Dated March 29, 2013, Site Name: US Army Ravenna Ammunition Plt RVAAP SLABS (Work Activity No. 267-000859-077)

Dear Mr. Patterson:

The Ohio Environmental Protection Agency (Ohio EPA), Northeast District Office (NEDO), Division of Environmental Response and Revitalization (DERR) has received and reviewed the document entitled, "Final Characterization Sampling Report of Surface and Subsurface Incremental Sampling Methodology at RVAAP-08, 09, 10, 11, and 12, Load Lines 1, 2, 3, 4, and 12 at the Ravenna Army Ammunition Plant, Ravenna, Ohio," dated March 29, 2013 and received by Ohio EPA on April1, 2013.

Ohio EPA has reviewed this report and has found no significant deficiencies. As a result, the "Final Characterization Sampling Report of Surface and Subsurface Incremental Sampling Methodology at RVAAP-08, 09, 10, 11, and 12, Load Lines 1, 2, 3, 4, and 12" has been approved.

In addition, Ohio EPA has reviewed the response to comments, dated April 2, 2013, concerning the pesticides and the laboratory qualification code. Ohio EPA is still concerned with the clarification given; however, we are willing to discontinue this issue based on pesticides not being a chemical of concern and the low concentrations that were observed.

E-MAILED 05-16-2013 RMH

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Date: 05-16-2013

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If you have any questions or concerns, please do not hesitate to contact Andrew Kocher at (330) 963-1249.

Sincerely,

Eileen Mohr
Environmental Specialist 3
Division of Environmental Response and Revitalization

ACK:EM/kss

cc: Ann Wood, NGB
Katie Tate, OHARNG, Camp Ravenna
Cullen Grasty, Louisville District Corps of Engineers

ec: Eileen Mohr, Ohio EPA, NEDO, DERR
Todd Fisher, Ohio EPA, NEDO, DERR
Andrew Kocher, Ohio EPA, NEDO, DERR
Justin Burke, Ohio EPA, CO, DERR

CONTRACTOR STATEMENT OF INDEPENDENT TECHNICAL REVIEW

Prudent Technologies, Incorporated (Prudent) has completed the Final Characterization Sampling Report of Surface and Subsurface Incremental Sampling Methodology at RVAAP-08, 09, 10, 11 and 12, Load Lines 1, 2, 3, 4 and 12 at the Ravenna Army Ammunition Plant, Ravenna, Ohio. Notice is hereby given that an independent technical review has been conducted that is appropriate to the level of risk and complexity inherent in the project. During the independent technical review, compliance with established policy principles and procedures, utilizing justified and valid assumptions, was verified. This included review of data quality objectives; technical assumptions; methods, procedures, and materials to be used; the appropriateness of data used and level of data obtained; and reasonableness of the results, including whether the product meets the customer's needs consistent with law and existing United States Army Corps of Engineers policy.

John P. Jent

March 29, 2013

John P. Jent, P.E.
Project Manager

Date

Mark Snyder

March 29, 2013

Mark Snyder, P.E.
Independent Technical Review Team Leader

Date

March 29, 2013

Prakash Raja, CHMM
Program Manager

Date

Final Characterization Sampling Report of Surface and Subsurface Incremental Sampling Methodology at RVAAP-08, 09, 10, 11 and 12, Load Lines 1, 2, 3, 4 and 12

Ravenna Army Ammunition Plant

Ravenna, Ohio

Contract No. W912QR-10-P-0037

Prepared for:

US Army Corps of Engineers

U.S. Army Corps of Engineers
600 Martin Luther King, Jr. Place
Louisville, Kentucky 40202

Prepared by:

PRUDENT TECHNOLOGIES, INC.
dba Prudent Environmental Services, Inc.

Prudent Technologies, Inc.
4242 Medical Drive, Suite 5250
San Antonio, Texas 78229

March 29, 2013

DOCUMENT DISTRIBUTION
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OHEPA	2	2
Enviro Spec 2 / OHARNG	1	1
ARNG		1

COR – Contracting Officer's Representative
USACE – U.S. Army Corps of Engineers
RVAAP – Ravenna Army Ammunition Plant
OHEPA – Ohio Environmental Protection Agency
OHARNG – Ohio Army National Guard

* After OH EPA approval letter received

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ACRONYMS AND ABBREVIATIONS

ACSIM	Assistant Chief of Staff for Installation Management
ADR	Automated Data Review
AEC	Army Environmental Command
AOC	Area of Concern
bgs	Below ground surface
BRACD	Base Realignment and Closure Division
Camp Ravenna	Camp Ravenna for Ravenna Military Joint Training Center
CCV	Continuing Calibration Verification
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COR	Contracting Officer Representative
CSM	Conceptual Site Model
CUG	Clean-up Goal
CPR	Cardio Pulmonary Resuscitation
DFFOs	Director's Final Findings and Orders
DNT	Dinitrotoluene, also 2,4-Dinitrotoluene
DOD	Department of Defense
DOT	Department of Transportation
DQO	Data Quality Objective
DMM	Discarded Military Munitions
DVR	Data Validation Report
DVRR	Data Verification Report
DU	Decision Unit
EDD	Electronic Data Deliverable
EPA	Environmental Protection Agency
eQAPP	electronic Quality Assurance Project Plan
FSP	Field Sampling Plan
FWSAP	Facility-Wide Sampling and Analysis Plan
FWSHP	Facility-Wide Safety and Health Plan
GPS	Global Positioning System
HASP	Health and Safety Plan (or Safety and Health Plan)
HAZWOPER	Hazardous Waste Operations and Emergency Response
ICV	Initial Calibration Verification
IDW	Investigation-Derived Waste
IROD	Interim Record of Decision
IRP	Installation Restoration Program
ISM	Incremental Sampling Methodology
JSA	Job Safety Analysis
LCS	Laboratory Control Sample
LDC	Laboratory Data Consultants
MDL	Method Detection Limit
MEC	Munitions and Explosives of Concern
MS/MSD	Matrix Spike/Matrix Spike Duplicate
N/A	Not Applicable
NGB	National Guard Bureau
OHARNG	Ohio Army National Guard
OHEPA	Ohio Environmental Protection Agency

OSHA	Occupational Safety and Health Administration
PAH	Polycyclic aromatic hydrocarbon
PCB	Polychlorinated biphenyl
PPE	Personal Protective Equipment
PID	Photo Ionization Detector
PRGs	Preliminary Remediation Goals
Prudent	Prudent Technologies Inc.
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
QSM	Quality Systems Manual
RAB	Restoration Advisory Board
RCRA	Resource Conservation and Recovery Act
RDX	Royal Demolition Explosive (1,3,5-Trinitroperhydro-1,3,5 triazine; Cyclotrimethylenetrinitramine)
REIMS	Ravenna Environmental Information Management System
RI	Remedial Investigation
RL	Reporting Limit
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
RSD%	Relative Standard Deviation Percent
RSL	Regional Screening Level
RVAAP	Ravenna Army Ammunition Plant
SAP	Sampling and Analysis Plan
SRC	Site-Related Contaminant
SSHP	Site Safety and Health Plan
SVOC	Semi-volatile organic compound
TAL	Target Analyte List
TCLP	Toxicity Characteristic Leaching Procedure
TNT	Trinitrotoluene (2,4,6-Trinitrotoluene)
SOW	Scope of Work
UCL	Upper Confidence Level
USACE	United States Army Corps of Engineers
USP&FO	United States Property and Fiscal Officer
UXO	Unexploded Ordnance
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

The results of a comprehensive evaluation of subsurface soil contamination below the former floor slabs at selected buildings at Load Lines 1, 2, 3, and 4 at the Ravenna Army Ammunition Plant, Ohio (RVAAP) conducted by Prudent Technologies, Inc. (Prudent), and the results of a comprehensive evaluation of surface soil contamination adjacent to the footprints of selected former buildings at Load Lines 1, 2, 3, and 4 conducted by members of the Louisville District, US Army Corps of Engineers and Ohio EPA (OHEPA), were reported in the Final Sampling Report of Surface and Subsurface Incremental Sampling Methodology at Load Lines 1, 2, 3, and 4 (RVAAP-08, 09, 10, and 11), (Prudent 2011). Following these investigations, an evaluation of all previous environmental information is being conducted for the Land Use Control (LUC) Assessment, per the Guidance Document for the Evaluation of LUC Controls, (USACE 2011), to comprehensively guide future remedial and administrative measures. Data gaps recognized during the LUC Assessment were addressed via additional (Characterization) sampling at Load Lines 1, 2, 3, 4, and 12 presented herein.

The data quality objectives of the characterization sampling were as follows:

1. Reduce the amount of remediation required by dividing large areas that require remediation into smaller areas.
2. Bound previous incremental sampling methodology (ISM) areas whose analytical levels of contamination were above RVAAP cleanup goals for the adult or child resident farmer, whichever is more stringent.
3. Conduct incremental sampling methodology (ISM) on soil and sediment sampling at previous discrete sample locations where levels of contamination for specific analytes above the RVAAP cleanup goals were measured, but not removed by previous remediation efforts, and whose inclusion caused the exposure point concentrations for the specific analytes to exceed the associated RVAAP cleanup goals.
4. Provide analytical documentation that the source of backfill for the project meets OHEPA requirements for approved backfill.
5. Provide sufficient quality control/quality assurance sampling to evaluate the overall quality of both the field and laboratory sampling procedures.

Thirty-one (31) surface soil ISM samples, three (3) sediment ISM samples, three (3) 1’ – 2’ subsurface soil ISM samples, and fifty-nine (59) subsurface soil horizontal ISM samples (comprised of 163 individual geoprobe borings) were collected between June 26 – July 6, 2011 by a sampling crew of five (5) engineers and scientists and one (1) unexploded ordnance (UXO) technician.

The results of the sampling are as follows.

1 The sizes of areas requiring remediation were reduced via sampling smaller areas within the larger areas, with no chemical concentrations within the smaller areas above RVAAP cleanup goals.

2 Of the twelve (12) areas sampled to bound the extent of contamination at Load Lines 1, 2, 3, and 4, nine (9) areas were so bounded, but three (3) areas were not bounded.

3 At the locations of twelve previous discrete surface soil and sediment samples whose analytical results exceeded RVAAP cleanup goals, characterization ISM surface soil samples (0 – 1’ below

ground surface), ISM subsurface soil samples (1' – 2' below ground surface), and ISM sediment samples were collected. The levels of contamination measured at ten of these ISM samples were above RVAAP cleanup goal.

4 The analytical results of the sample from the Charlestown Quarry, the borrow source being considered, showed no contaminants levels above CUGs and thus the Charlestown Quarry is an acceptable source of backfill.

5 Triplicate surface and subsurface ISM sample results used to evaluate repeatability indicated good repeatability in the primary, blind duplicate, and QA duplicate samples.

The information provided herein, along with all recent (1995 onward) environmental sampling data, will be utilized to conduct a comprehensive evaluation of the most cost effective means of providing the Ohio Army National Guard (OHARNG) with the least restrictive future land use. This evaluation will be conducted per the Guidance Document for the Evaluation of Land Use Controls at the Ravenna Army Ammunition Plant, Ohio and will be presented as the Land Use Control Assessment Report.

1.0 BACKGROUND

1.1 PURPOSE AND SCOPE

As per the project requirements, the results of a comprehensive evaluation of subsurface soil contamination below the former floor slabs at selected buildings at Load Lines 1, 2, 3, and 4 at the Ravenna Army Ammunition Plant, Ohio (RVAAP) conducted by Prudent Technologies, Inc. (Prudent), and the results of a comprehensive evaluation of surface soil contamination adjacent to the footprints of selected former buildings at Load Lines 1, 2, 3, and 4 conducted by members of the Louisville District, US Army Corps of Engineers and Ohio EPA (OHEPA), are reported in the Final Sampling Report of Surface and Subsurface Incremental Sampling Methodology at Load Lines 1, 2, 3, and 4 (RVAAP-08, 09, 10, and 11), (Prudent 2011). Following these investigations, an evaluation of all previous environmental information is being conducted for the Land Use Control (LUC) Assessment, per the Guidance Document for the Evaluation of LUC Controls, (USACE 2011), to comprehensively guide future remedial and administrative measures. Data gaps recognized during the LUC Assessment have been addressed via additional (Characterization) sampling described herein.

1.2 DATA QUALITY OBJECTIVES (DQOS) OF CHARACTERIZATION SAMPLING

The data quality objectives of the characterization sampling are as follows:

1. Reduce the amount of remediation required by dividing two large areas that require remediation into smaller areas.
2. Bound previous incremental sampling methodology (ISM) areas whose analytical levels of contamination were above RVAAP Cleanup Goals (CUGs) for the adult or child resident farmer, whichever is more stringent.
3. Conduct incremental sampling methodology (ISM) on soil and sediment sampling at previous discrete sample locations where levels of contamination for specific analytes above the RVAAP cleanup goals were measured, but not removed by previous remediation efforts, and whose inclusion caused the exposure point concentrations for the specific analytes to exceed the associated RVAAP cleanup goals.
4. Provide analytical documentation that the source of backfill for the project meets OHEPA requirements for approved backfill.
5. Provide sufficient quality control/quality assurance sampling to evaluate the overall quality of both the field and laboratory sampling procedures.

In Table 3-1, the specific data quality objectives are listed for each sample.

2.0 ACTIVITIES PRIOR TO SAMPLE COLLECTION BY PRUDENT

2.1 PRE-MOBILIZATION

2.1.1 Subcontracts

Subcontracts were established with the following companies for services as described below.

Drilling (Geoprobe) Services	Frontz Drilling
Analytical Services (Primary and Quality Control)	TestAmerica, Inc.
Analytical Services for Quality Assurance (QA) Samples	CT Laboratories
Surveying Services	Vista Sciences Corporation
Potable Water	Vietz Water Hauling
Portable Toilet and Wash Station	Miller and Company Sanitation Services
Waste Disposal	Emerald Environmental, Inc.

2.1.2 Unique Equipment Procurement

Fifty (50) aluminum wedge samplers (½-in x ½-in aluminum channel cut to (9-10)-inch sections with one end pointed) were purchased and then prepared by the Kentucky Machine & Tool Co. in Louisville, Kentucky.

Three sets of aluminum half pipes were customized, as described in Section 3.1 to allow collection of surface soil samples 0 – 1.0’ below ground surface (bgs), with subsequent pushing of a 7/8”-D step probe from 1.0’ to 2.0’ bgs.

2.1.3 Regular Equipment Procurement

Much of the sampling equipment was purchased via the internet, including materials from Forestry Suppliers , Inc. (step probes), En Novative Technologies, Inc. (Terra Cores), and Brady (labels) and shipped directly to Building 1036 during the week prior to the beginning of field sampling. Blank sampling labels were purchased from Desktop Labels, Inc. and prepared prior to arrival at the site. A photoionization detector owned by Prudent was brought to the site from the San Antonio, Texas Office.

2.2 MOBILIZATION

Mobilization took place June 25 and 26, 2011 and included assembling and organizing all the preordered equipment/materials, purchasing equipment not already ordered, organizing the allocated workspace in Building 1036, assembling unique equipment, establishing the decontamination line, purchasing waste drums, and coordinating with facility personnel and other contractors working on site.

2.3 SITE PREPARATION

To facilitate productive sampling, Prudent met with the subcontracted surveyor and requested that corners of the subject buildings be laid out at least one or two days ahead of the field sampling crew. The subcontracted surveyor laid out sample/building locations (via Ohio state plane coordinates) within two days of drilling at the proposed sample areas and buildings. Many of the pin flags used to locate building

corners for the August 2010 Prudent investigation were still in place since the surveyor had dug holes in the hard ground to place and secure the pin flags. The locations of the samples around the remedial Investigation borings utilized the coordinates listed in the Ravenna Environmental Information Management System (REIMS). At surface soil ISM sample areas the surveyor laid out the corners of the 25' x 25' square areas. At subsurface soil sample areas the surveyor used light green pin flags to locate the corners of buildings. Prudent personnel, using the field logs of remediation activities to avoid remediated areas, placed yellow pin flags to locate primary Geoprobe sampling locations, orange flags for the quality control (QC) or 2nd triplicate Geoprobe locations, and red flags for the quality assurance (QA) or 3rd triplicate Geoprobe locations. Although high grass was present at Building G-8 (Load Line 4), no site clearance actions were required to locate the primary and triplicate Geoprobe locations, except for Sample Number LL4SB-415M where a tree with surrounding debris created a severe footing hazard, Photograph 2-1. High grass that caused poor visibility was minimal at the other sample locations. MEC avoidance was performed during both the selection of individual boring locations and the drilling of individual borings.



Photograph 2-1
Tree west of Building G-8 in Load Line 4 with much debris around it ISM Sample Area LL4SB-415M

3.0 SURFACE SOIL AND SUBSURFACE SOIL ISM SAMPLING

3.1 SURFACE SOIL ISM SAMPLING

Where there was no associated subsurface soil ISM sample from a depth of 1' – 2' below ground surface (bgs), surface soil (0 – 1' bgs) ISM sampling was conducted per the current Facility-Wide Sampling and Analysis Plan (FWSAP, SAIC, 2011). All other necessary tasks followed guidance within the FWSAP and the project Work Plan (Prudent 2010), e.g., equipment use, Health and Safety Plan, decontamination, managing of IDW, photographic log, core logging, etc. At the locations of previous non Phase I Remedial Investigation (RI) discrete surface soil samples where elevated concentrations of a contaminant were found, the ISM surface soil samples were taken from within a 25' x 25' square shape area with the previous discrete sample in the approximate middle of the square, Photograph 3-1.



Photograph 3-1

25' x 25' Surface Soil ISM Sample Area with 30 Subsample Locations
ISM Sample Area LL4SS-416M

The surface soil samples collected during the Phase I Remedial Investigations at Load Lines 1, 2, 3, 4, and 12 extended from 0 – 2' bgs and were discrete samples. Subsequently surface soil for most land uses at RVAAP was defined as extending from 0 – 1' bgs and subsurface soil was defined as greater than 1' bgs. For the sampling performed herein at Phase I RI surface sample locations, two sets of samples were taken. Surface soil (0 – 1' bgs) ISM samples were taken from within a 25' x 25' area with the previous discrete sample in the approximate middle of the square. Subsurface soil ISM samples were taken from within the same area, but from 1' – 2' bgs. Where there was an associated subsurface soil ISM sample from a depth of 1' – 2' bgs, the surface soil sample was collected using two customized sections of the 1-1/2" half pipe liners (utilized for 1' – 7' subsurface soil sampling). The ends of two 1-1/2" half pipe liners were ground to have a pointed shape, holes were drilled in the half pipes to allow screws to hold them together, and hose clamps placed around them to allow driving the assembly into the ground one foot, pulling the assembly, separating the half pipes, and then taking representative portions of soil along the entire length of the soil collected, much like a conventional split spoon sampler. In all cases, the remaining holes remained open and the follow on subsurface soil ISM samples were taken with a conventional 7/8-inch step probe from a depth of 1' – 2' bgs. The reasons for sampling, type of sampling, sampling identification numbers, associated laboratory analyses, and sampling dates are detailed on Table 3-1. General locations of the ISM sample areas are shown on Figures 3- (1 - 5), detailed ISM sample locations are shown on Figures 3- (1A - 5A) , and areas where there were analytical exceedances of the RVAAP clean-up goals (CUGs) are shown on Figures 3-(1B - 5B).

3.2 WET SEDIMENT ISM SAMPLING

The three (Primary, QC, and QA) wet sediment ISM samples (LL3SD-416M-0001-SD, LL3SD-417M-0001-SD, and LL3SD-418M-00010SD) collected at Load Line 3 were composed of 30 subsamples in each sample and extended from the upstream end of a corrugated metal drainage pipe upstream for 50-feet.

3.3 SUBSURFACE SOIL ISM SAMPLING

Horizontal subsurface soil ISM sampling for the depth intervals of 1' – 3', 3' – 5', and 5' – 7' bgs was conducted per the approved Project Work Plan, Prudent (2010); however, no vertical subsurface ISM samples were taken. Per the data quality objective of determining contamination (if any) within zones of non-remediated subsurface materials, no push probe subsurface soil borings were taken within remediated areas. The number and nominal spacing of subsurface soil borings utilized to collect a horizontal subsurface soil ISM sample are shown on Table 3-1. The nominal spacing of such borings ranged from 36 to 41 feet. Once the drilling was completed, the field crew placed the pin flag in the boring location where the actual sample was collected, and the surveyor subsequently returned to the site and determined Ohio State Plane coordinates of the actual boring location. Details and photographs of the geoprobe subsurface soil ISM sampling are provided in Prudent, 2010. The locations of all Geoprobe borings are shown on Figures 3-(1A – 4A).

Subsurface soil ISM sampling for the depth interval of 1' – 2' bgs was conducted as described in Section 3.1.

As materials were being collected for the environmental samples, a geologist simultaneously prepared a field log describing the extents of materials collected (recovery), types of materials, estimated classifications under the Unified Soil Classification System, fill or original materials, and any unusual

materials or occurrences. Also noted were the depths of penetration of the Geoprobe drilling unit for each attempt at drilling to seven feet if refusal was encountered prior to seven feet. Activity field logs are provided in Appendix B, field boring logs are provided in Appendix D, and typed boring logs are provided in Appendix E.

Because of the rapid pace of sampling, much coordination was required between the field samplers and the person preparing the documentation of those samples. Use of the printed sample labels with as much information as could be printed prior to the actual sample collection facilitated the rapid pace of sampling. As an independent check on the boring logs, a set of activity field logs, provided in Appendix B, was also maintained. Attempts were made to prepare the chain-of-custody forms as sampling progressed, but often these forms had to be prepared at the end of sampling.

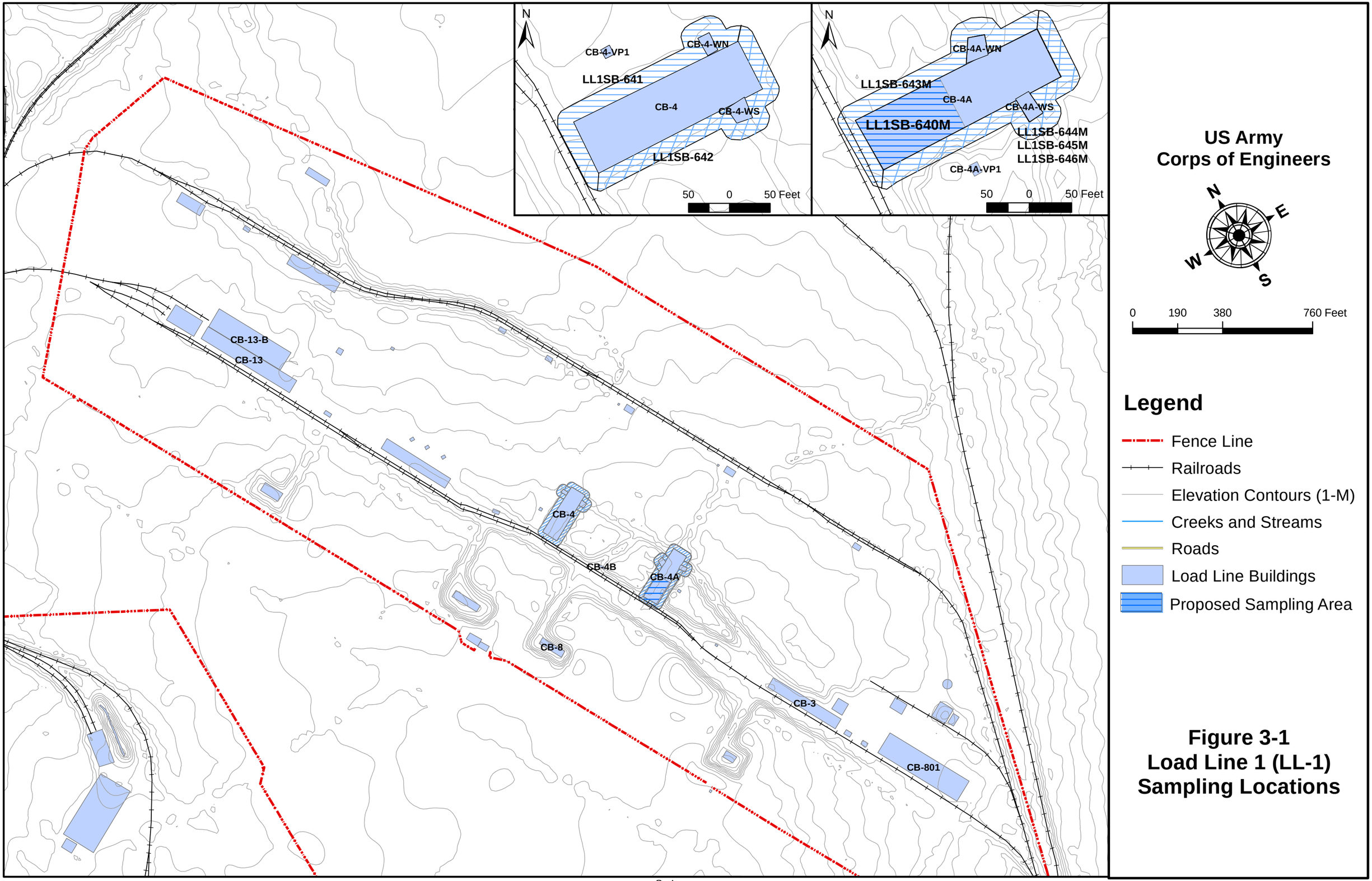
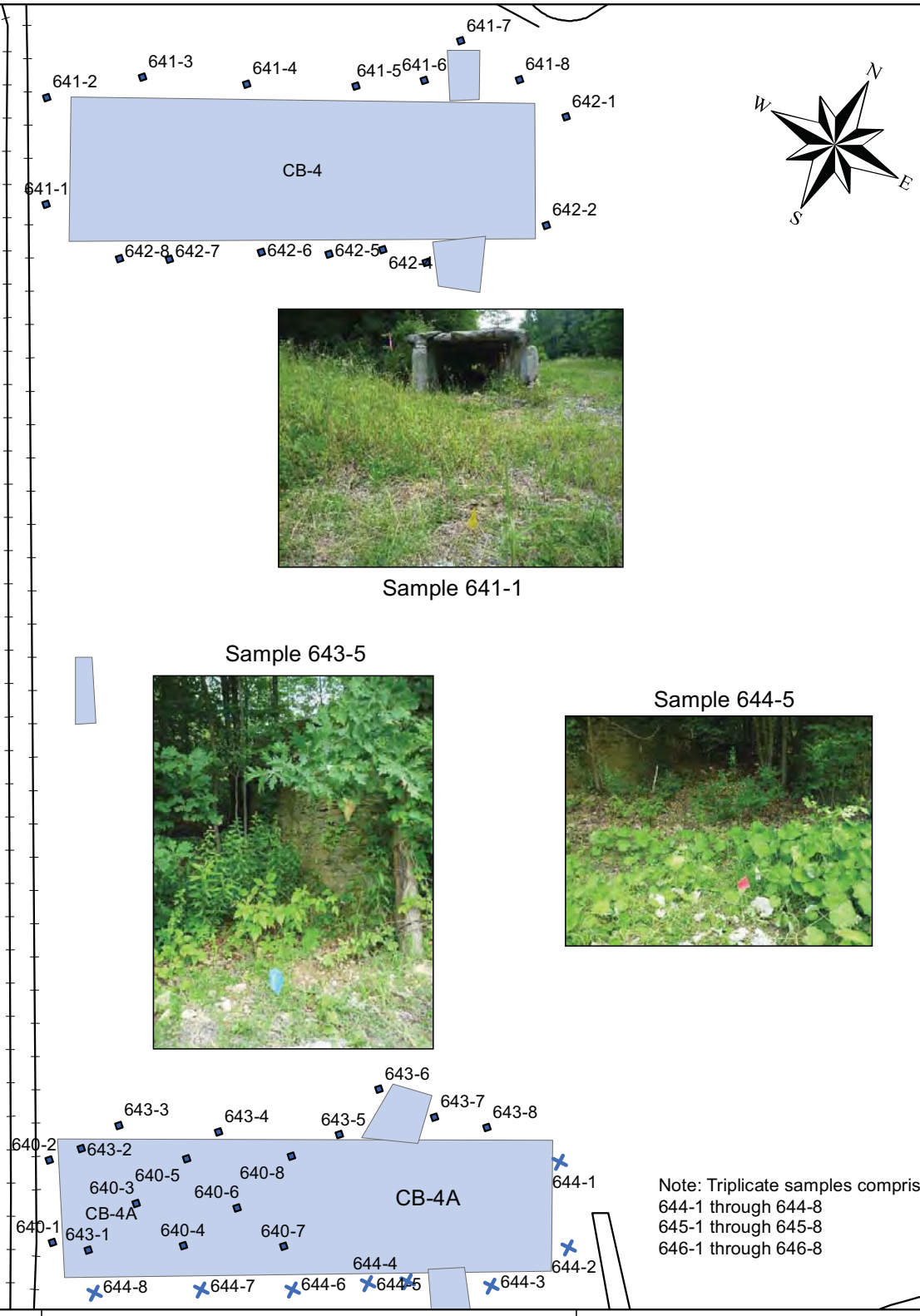


Figure 3-1
Load Line 1 (LL-1)
Sampling Locations



Note: Triplicate samples comprise:
644-1 through 644-8
645-1 through 645-8
646-1 through 646-8

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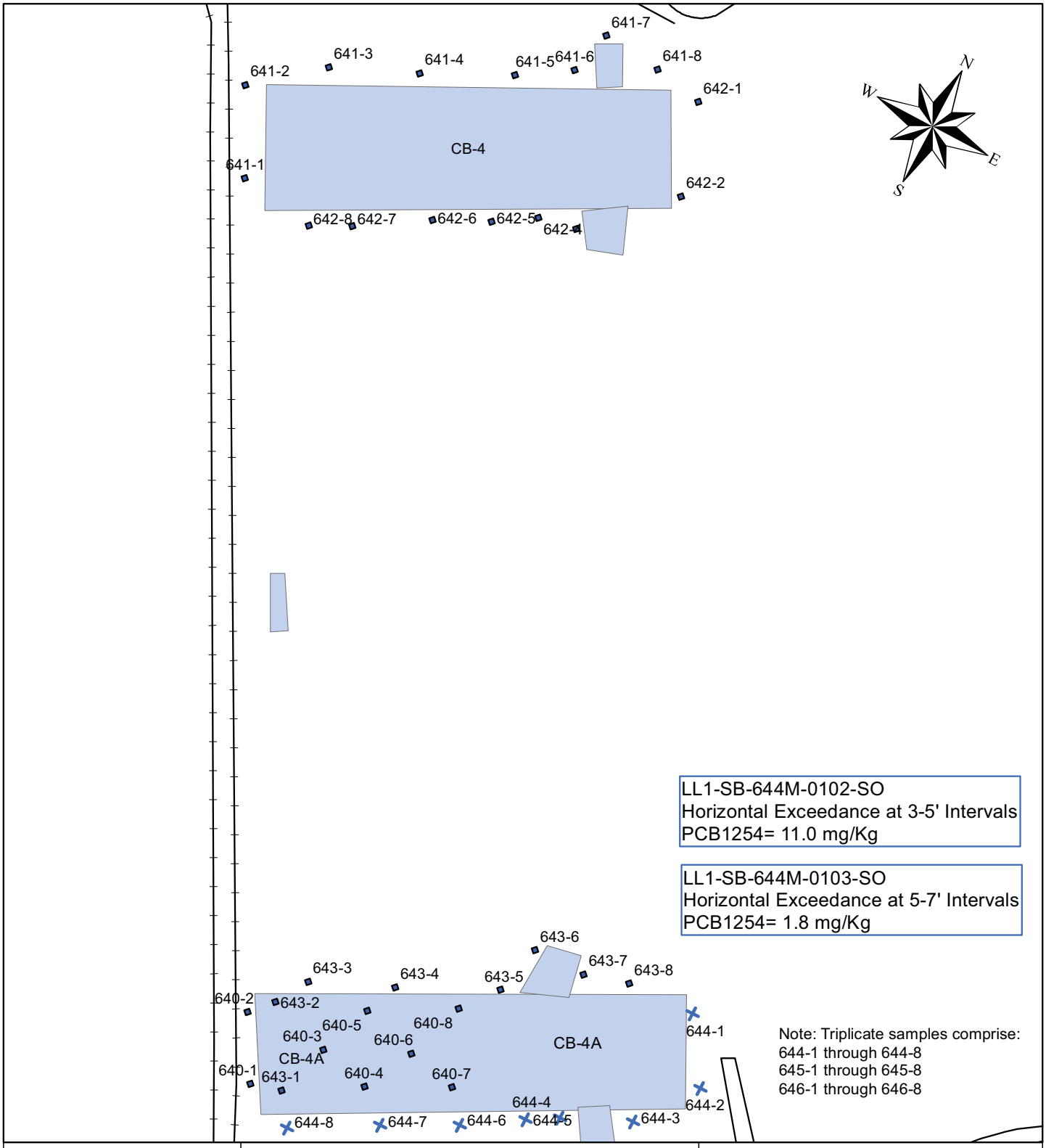
Legend

- Subsurface Boring Loc
- Subsurface Triplicate Boring Loc
- Demolished Building
- Railroads

0 40 80 160 Feet

Figure 3-1A
Load Line 1 (LL-1) Sampling Locations

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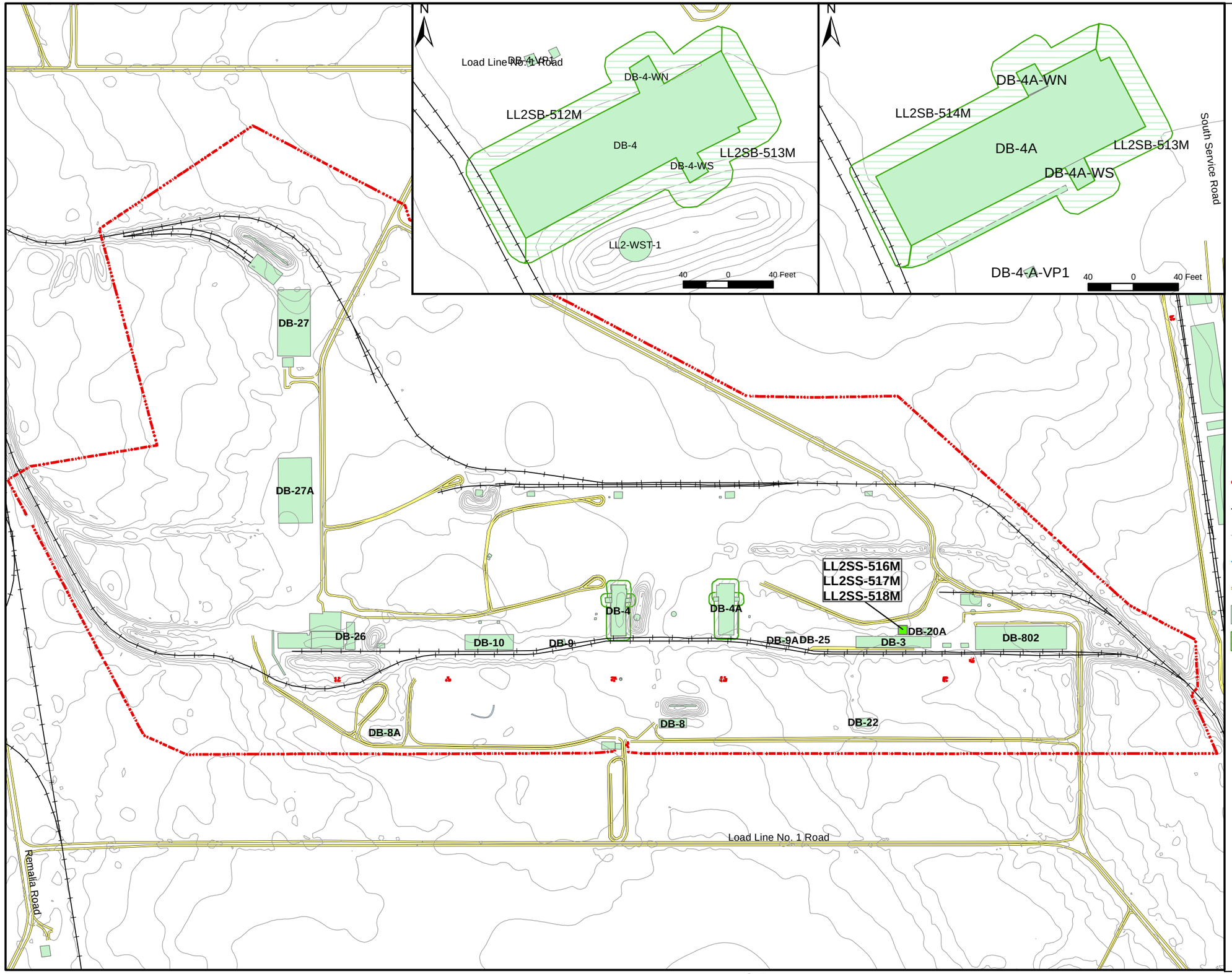
Legend

- Subsurf Soil Boring Loc
- Triplicate Sample Locations
- Railroads
- Demolished buildings

0 40 80 160 Feet

Figure 3-1B
Load Line 1 (LL-1)
Sample CUG Exceedances

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N E S W

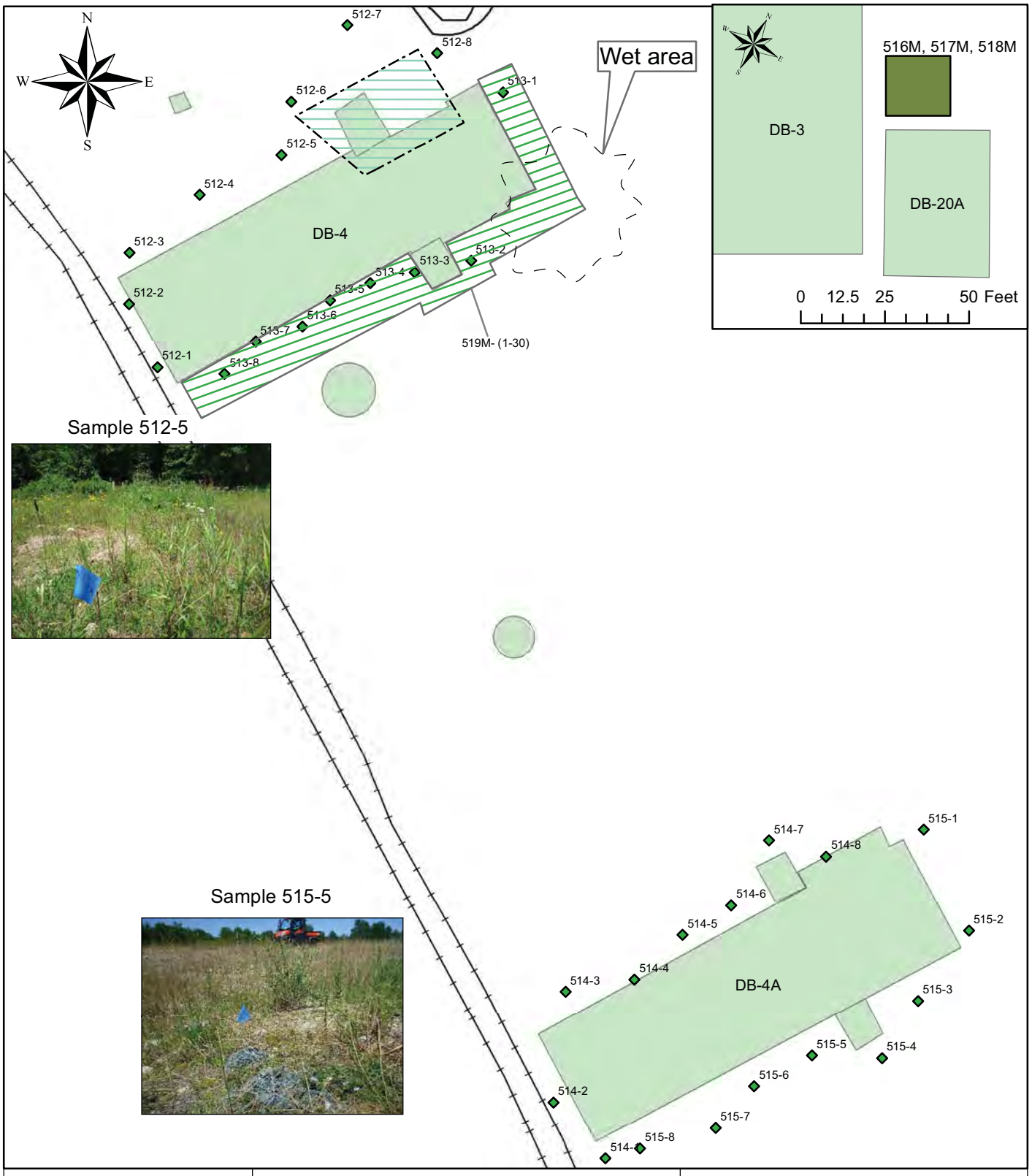
0 195 390 780 Feet

Legend

- Fence Line
- Railroads
- Elevation Contours (1-M)
- Creeks and Streams
- Roads
- Demolished Building
- Sample Area
- Former RI Sample Location and Surface Soil Sampling Location

Figure 3-2
Load Line 2 (LL-2) Sampling Locations

PRUDENT



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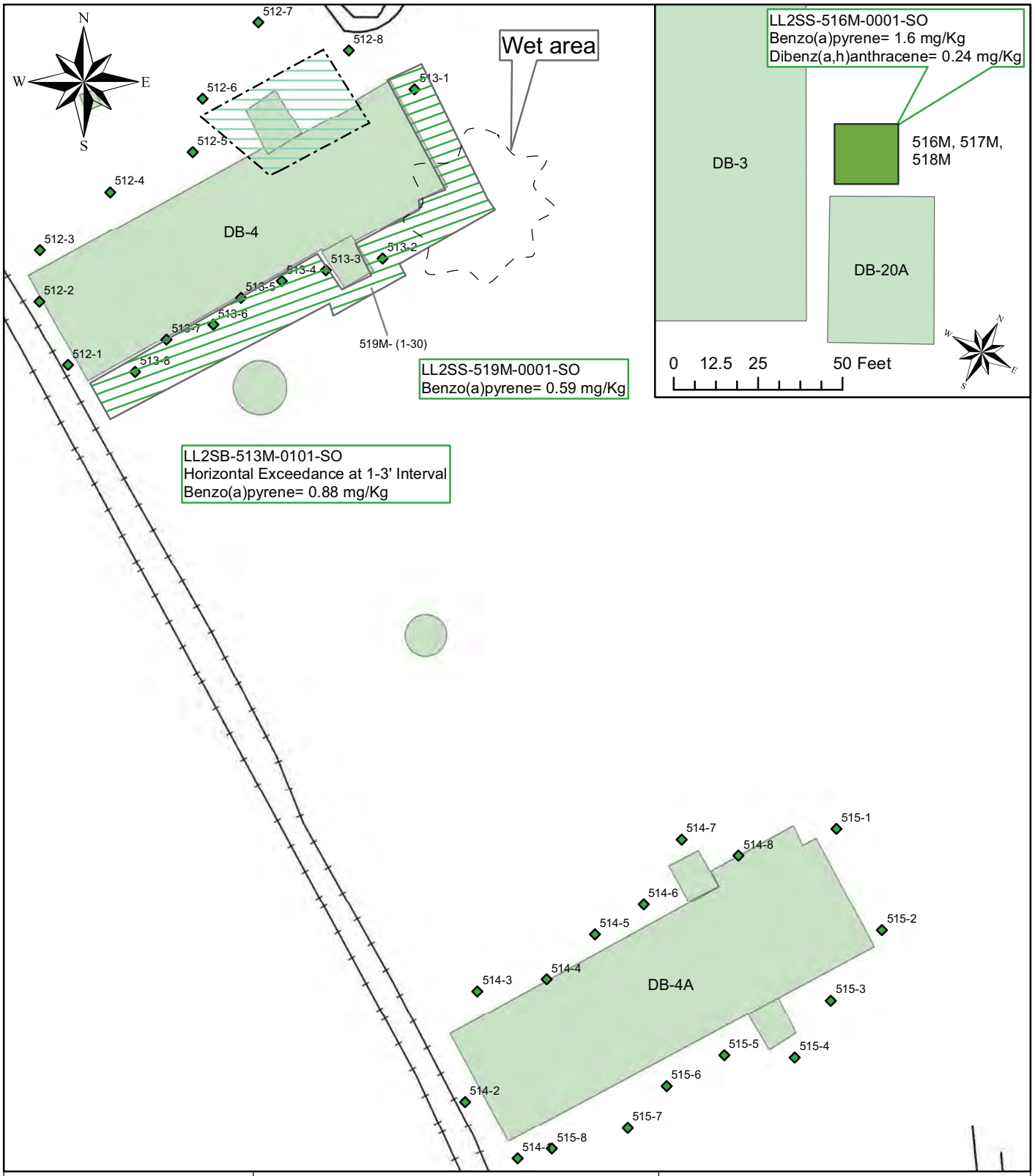
Legend

- Subsurf Soil Boring Loc
- Surf Soil ISM Loc
- Demolished buildings
- Approx Loc of Remediated Area
- Roads
- Railroads
- Surface soil ISM samp area

0 40 80 160 Feet

Figure 3-2A Load Line 2 (LL-2) Sampling Locations

PRUDENT



Legend

- Subsurf Soil Boring Loc
- Surf Soil ISM Loc
- Demolished Building
- Approx Loc of Remediated Area
- Roads
- Railroads
- Surface Soil ISM Samp Area

0 40 80 160 Feet

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Figure 3-2B
Load Line 2 (LL-2)
Sample CUG Exceedances

PRUDENT

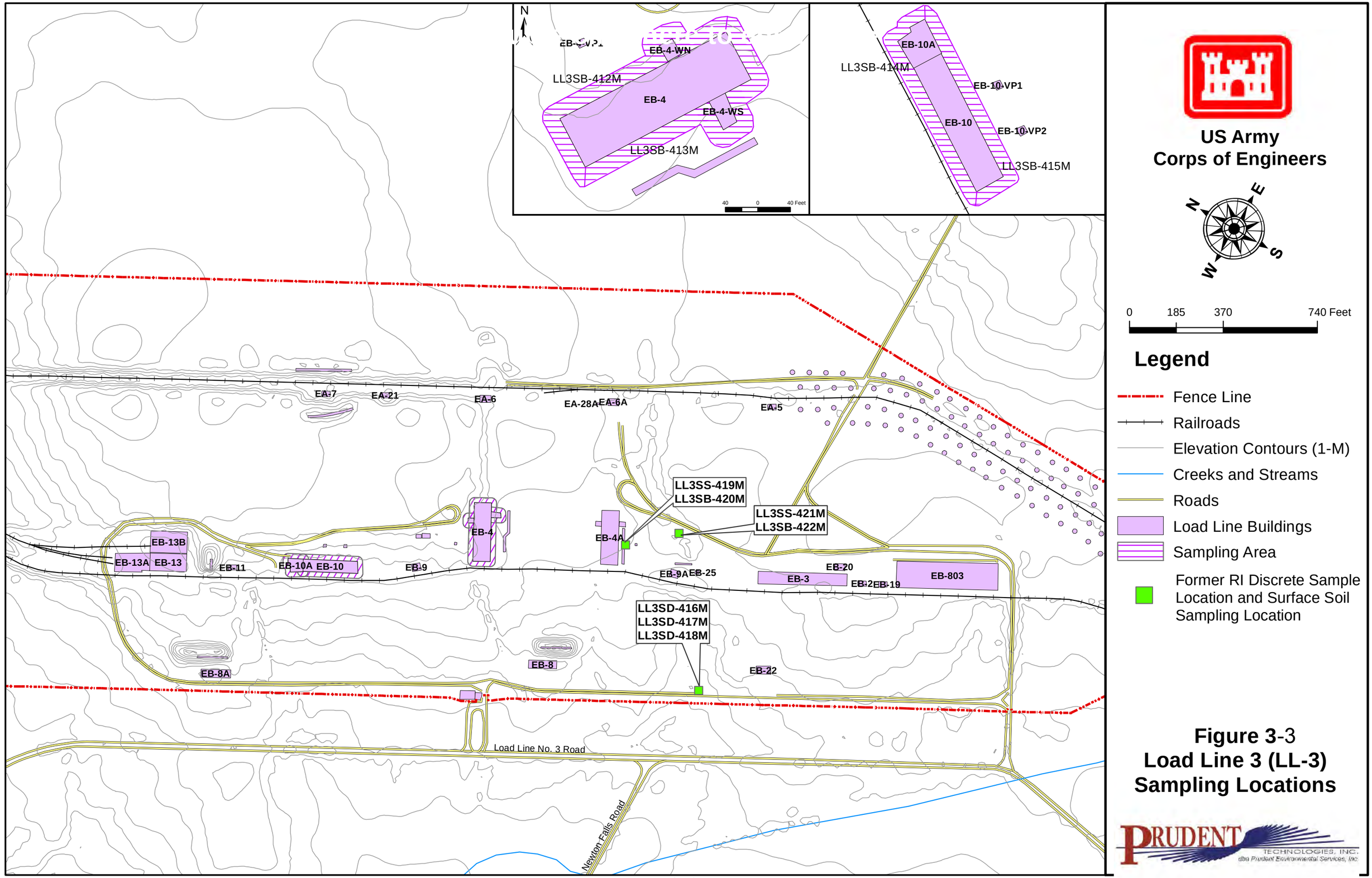
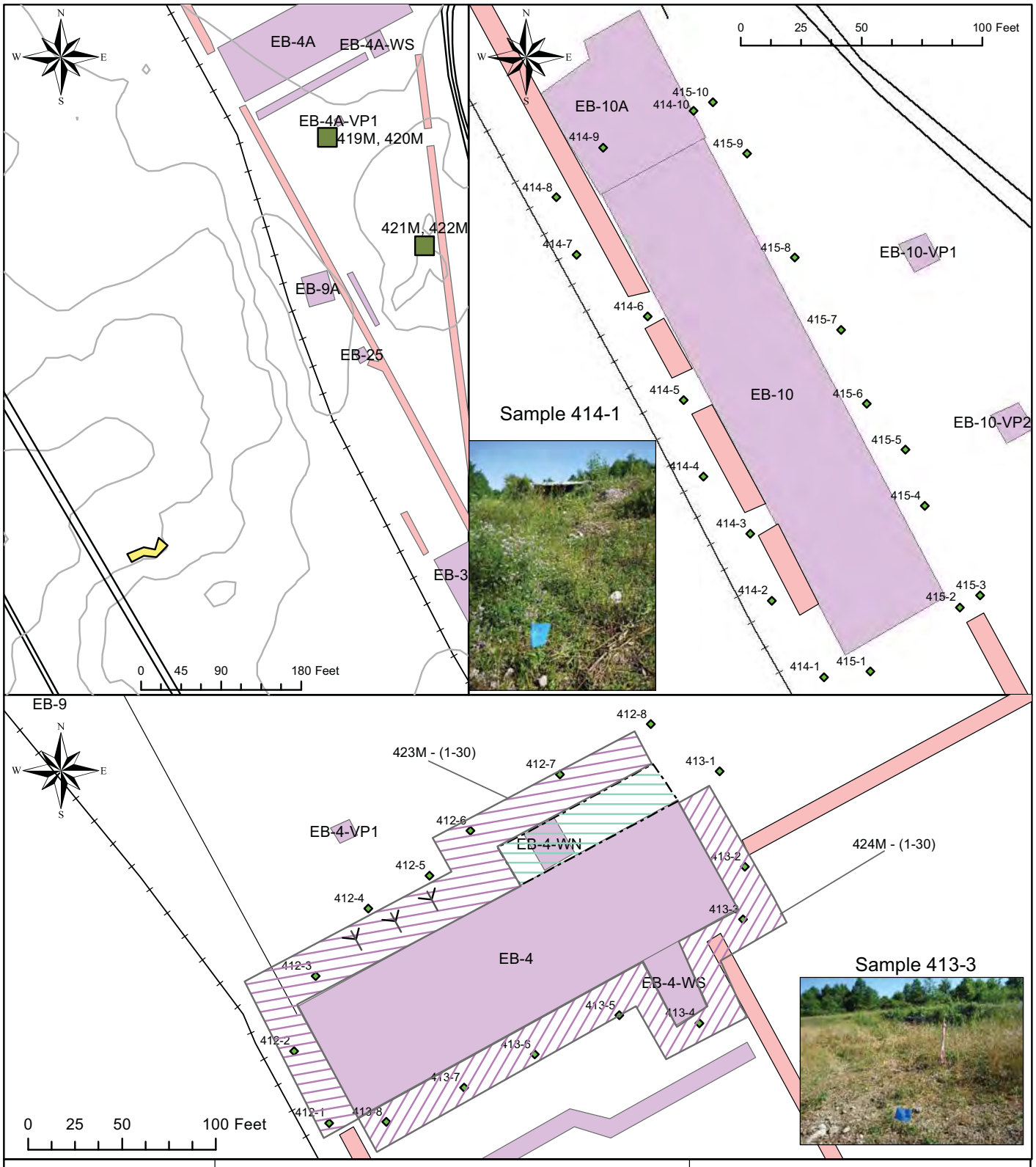


Figure 3-3
Load Line 3 (LL-3)
Sampling Locations

PRUDENT TECHNOLOGIES, INC.
dba Prudent Environmental Services, Inc.



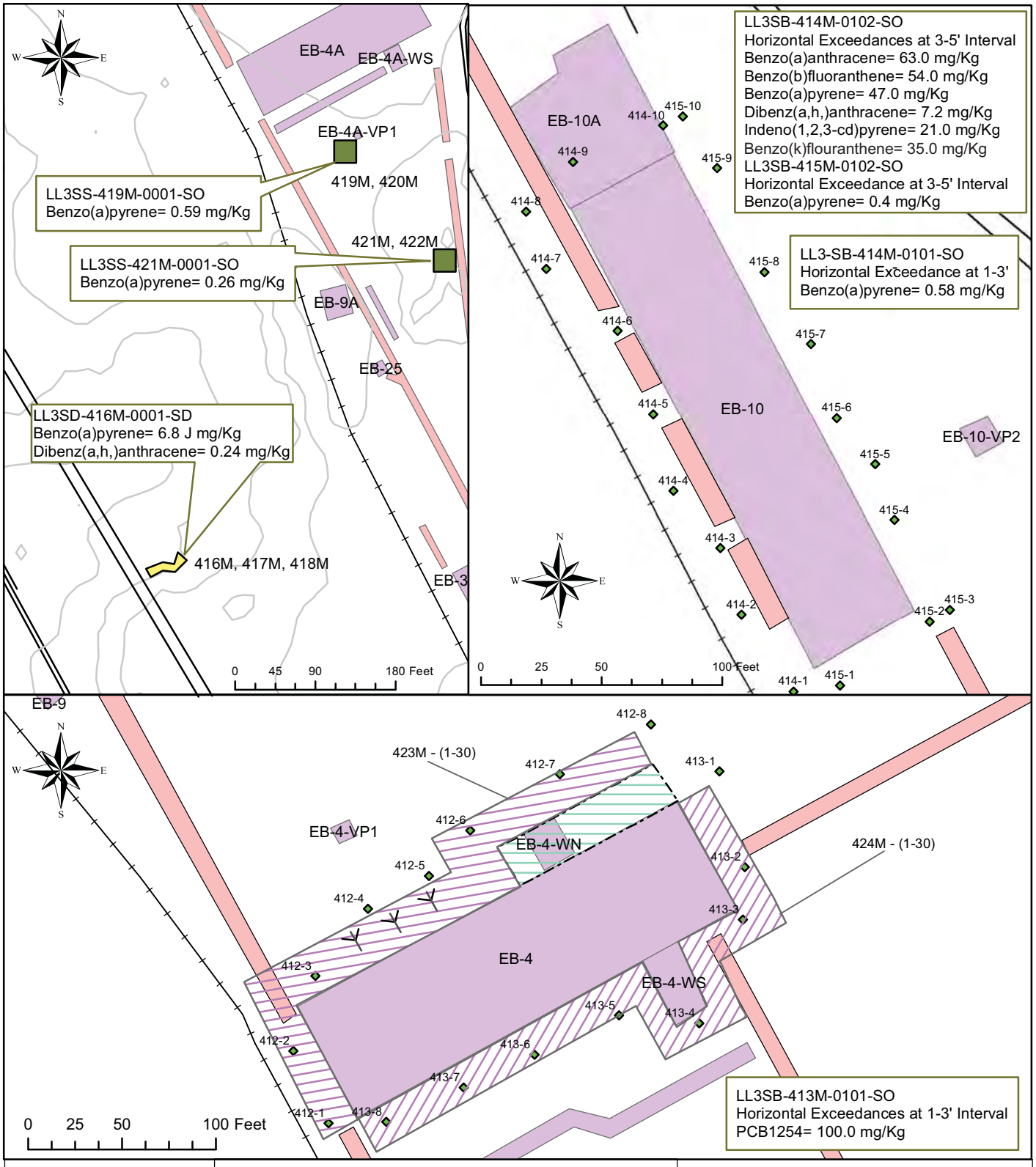
Legend

- Subsurf Soil Boring Loc
- Surf Soil & Subsurf ISM (1'-3') Loc
- Elevated Concrete Walkway
- Demolished Building
- Sediment ISM Location
- Roads
- Railroads
- Surface ISM Sample Area
- Approx loc of remediated area
- Hillside

US Army Corps of Engineers

Figure 3-3A Load Line 3 (LL-3) Sampling Locations

PRUDENT



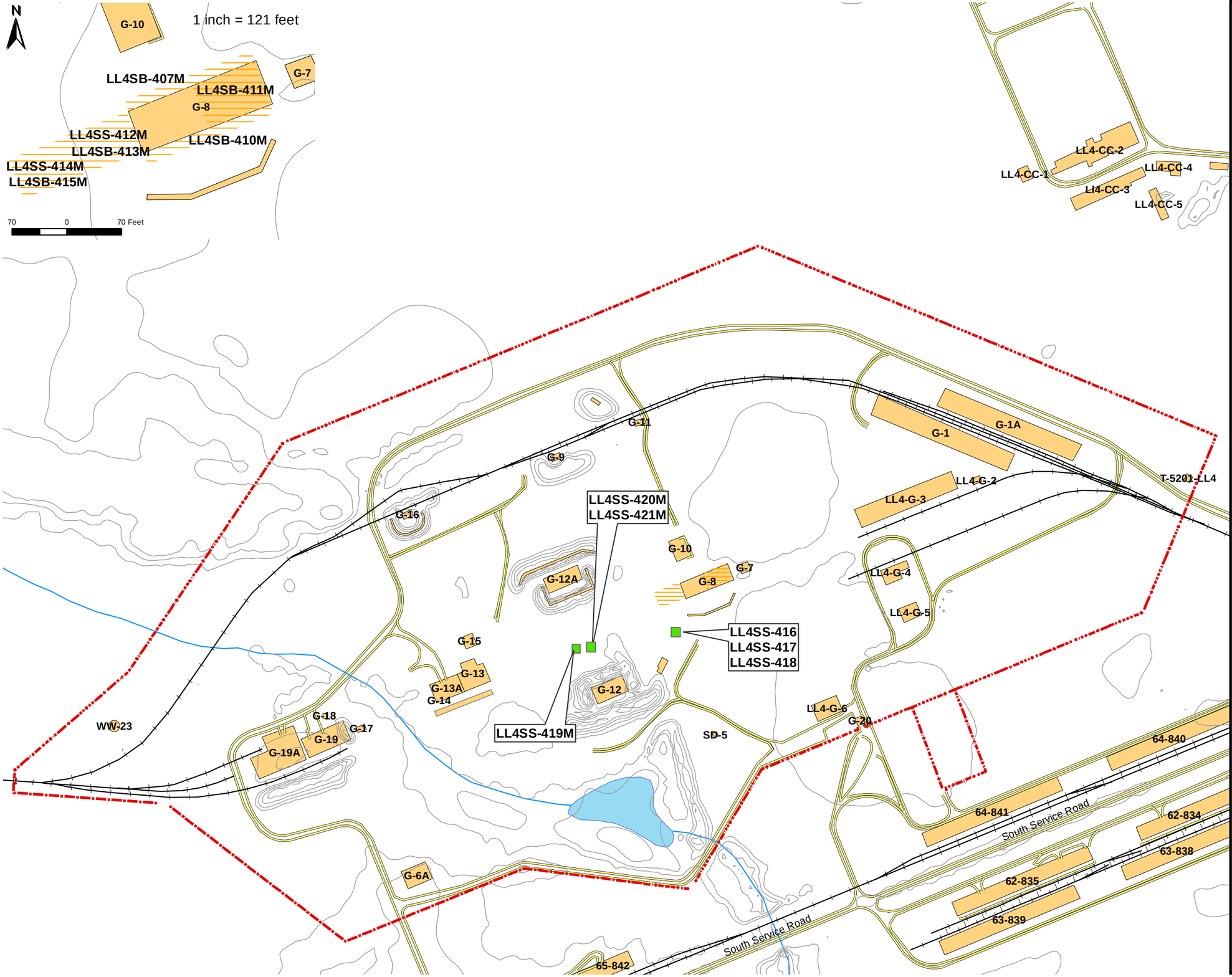
US Army Corps of Engineers

Legend

- Subsurf Soil Boring Loc
- Surf Soil & Subsurf ISM (1'-3') Loc
- Elevated Concrete Walkway
- Demolished Building
- Sediment ISM Location
- Roads
- Railroads
- Surface ISM Sample Area
- Approx Loc of Remediated Area
- Hillside

Figure 3-3B
Load Line 3 (LL-3)
Sample CUG Exceedances

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N
W E
S

0 175 350 700 Feet

Legend

- Fence Line
- Railroads
- Elevation Contours (1-M)
- Creeks and Streams
- Roads
- Rivers and Water Bodies
- Load Line Buildings
- Proposed Sampling Areas (multiple colors)
- Former RI Discrete Sample Locations and Surface Soil Sample

Figure 3-4
Load Line 4 (LL-4) Sampling Locations

PRUDENT TECHNOLOGIES, INC.
dba Prudent Environmental Services, Inc

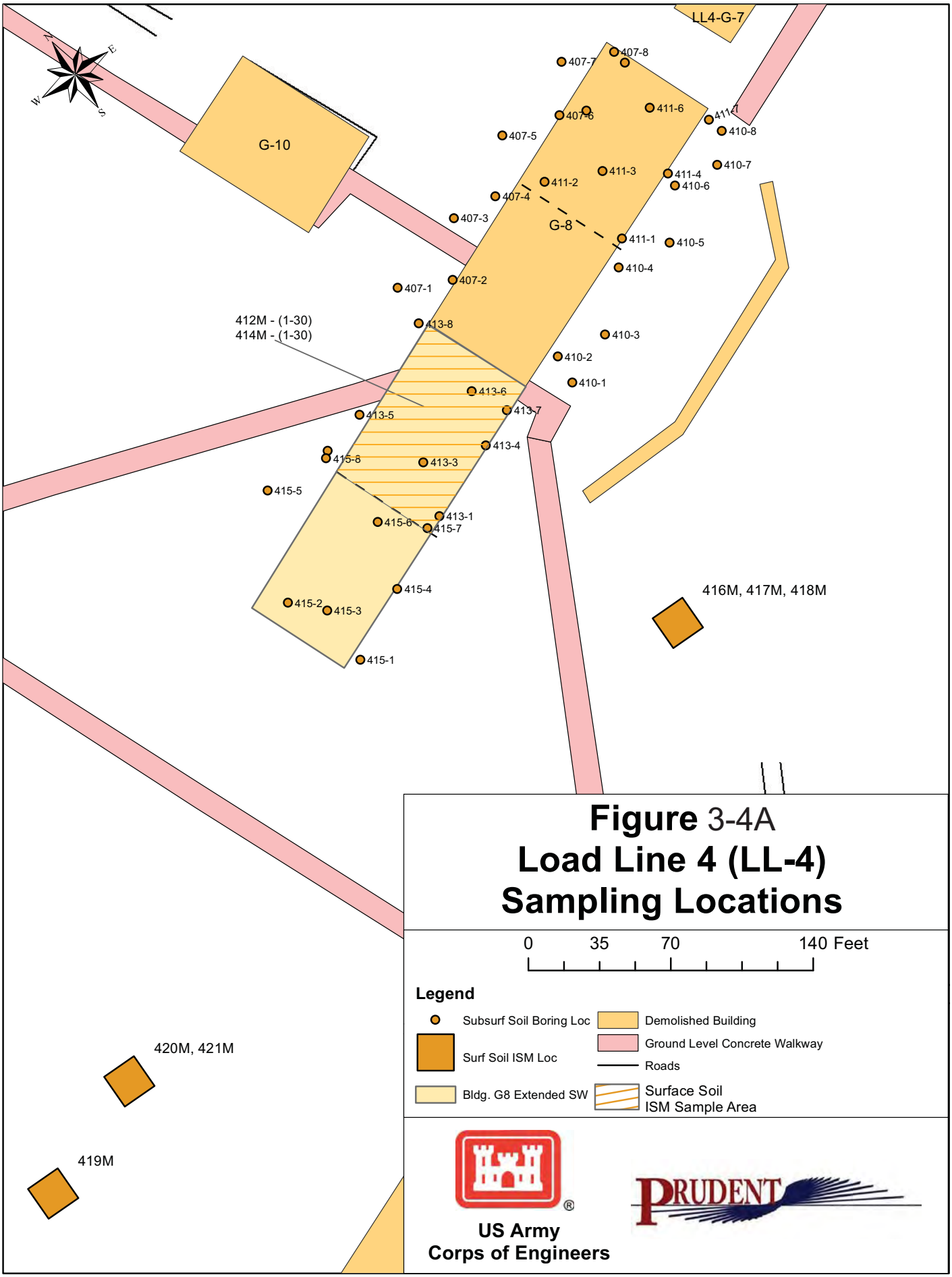
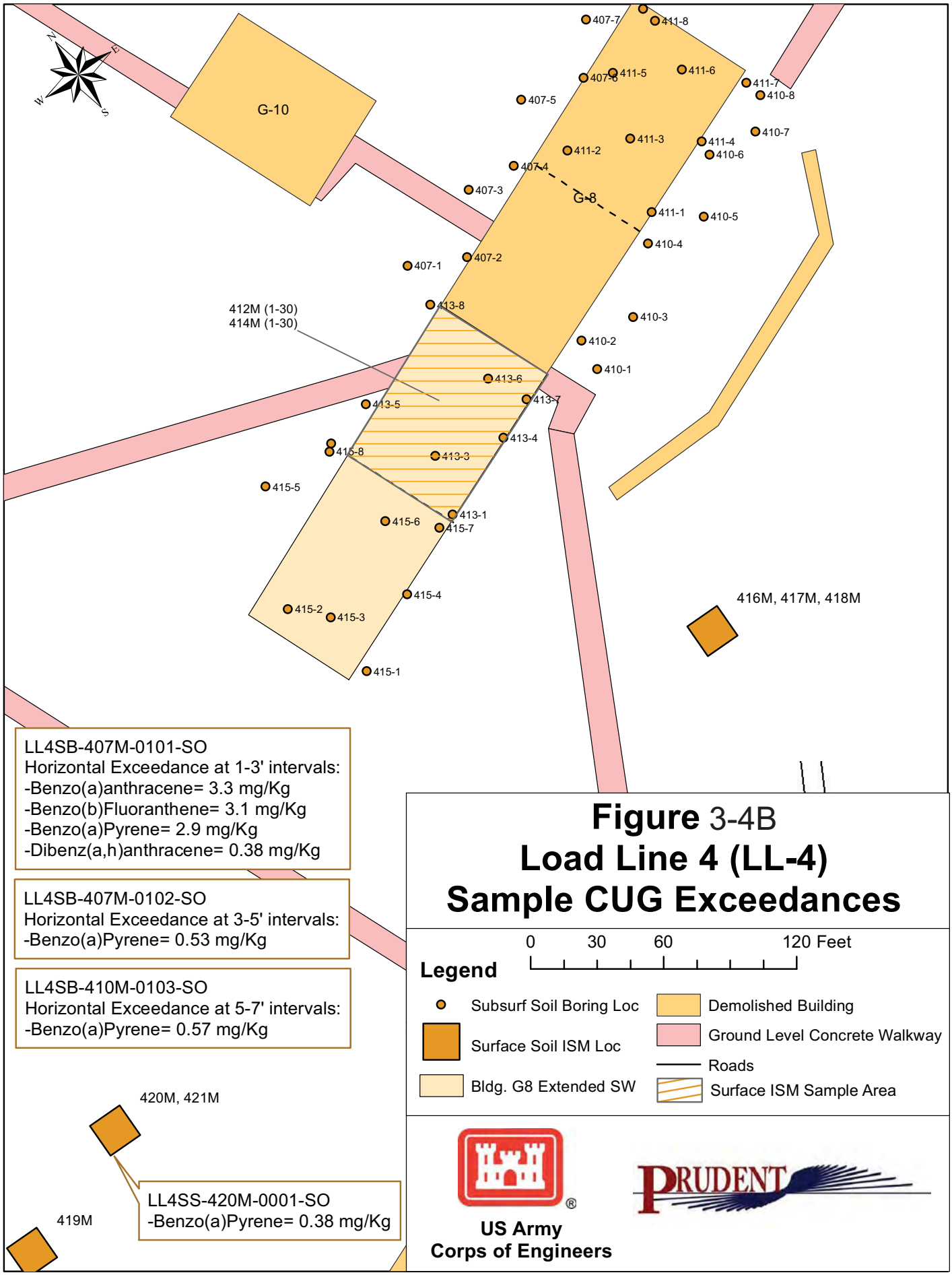
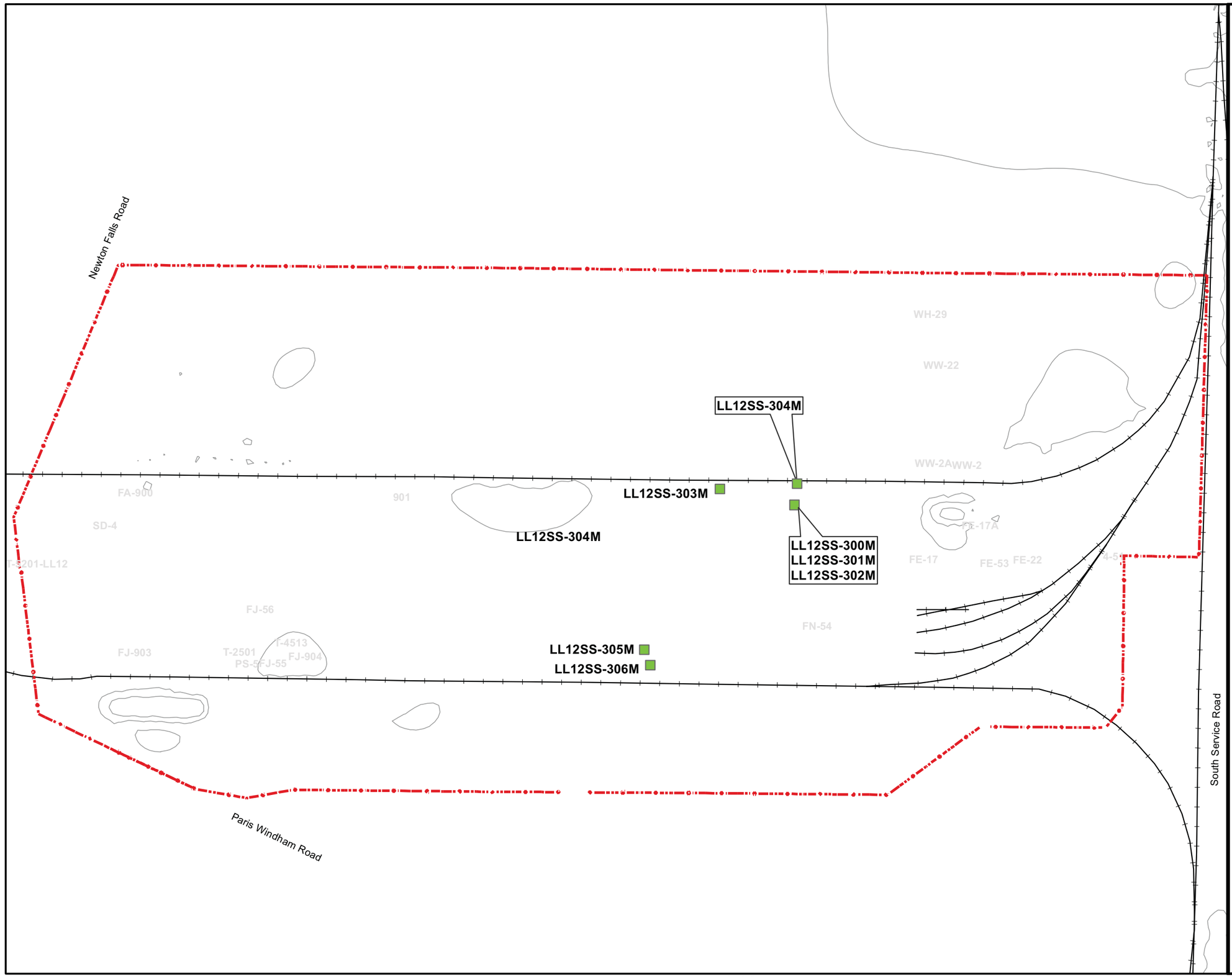


Figure 3-4A
Load Line 4 (LL-4)
Sampling Locations


G-10
G-8
407-7
411-8
407-6
411-5
411-6
411-7
410-8
407-5
410-7
411-3
411-4
410-6
411-2
407-4
407-3
411-1
410-5
410-4
407-2
407-1
413-8
412M (1-30)
414M (1-30)
410-3
410-2
410-1
413-6
413-7
413-5
413-4
415-8
413-3
415-5
413-1
415-6
415-7
415-4
415-2
415-3
415-1
416M, 417M, 418M
LL4SB-407M-0101-SO
Horizontal Exceedance at 1-3' intervals:
-Benzo(a)anthracene= 3.3 mg/Kg
-Benzo(b)Fluoranthene= 3.1 mg/Kg
-Benzo(a)Pyrene= 2.9 mg/Kg
-Dibenz(a,h)anthracene= 0.38 mg/Kg
LL4SB-407M-0102-SO
Horizontal Exceedance at 3-5' intervals:
-Benzo(a)Pyrene= 0.53 mg/Kg
LL4SB-410M-0103-SO
Horizontal Exceedance at 5-7' intervals:
-Benzo(a)Pyrene= 0.57 mg/Kg
420M, 421M
LL4SS-420M-0001-SO
-Benzo(a)Pyrene= 0.38 mg/Kg
419M
Figure 3-4B
Load Line 4 (LL-4)
Sample CUG Exceedances
0
30
60
120 Feet
Legend
Subsurf Soil Boring Loc
Surface Soil ISM Loc
Bldg. G8 Extended SW
Demolished Building
Ground Level Concrete Walkway
Roads
Surface ISM Sample Area
US Army
Corps of Engineers
PRUDENT



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Corps of Engineers

N E S W

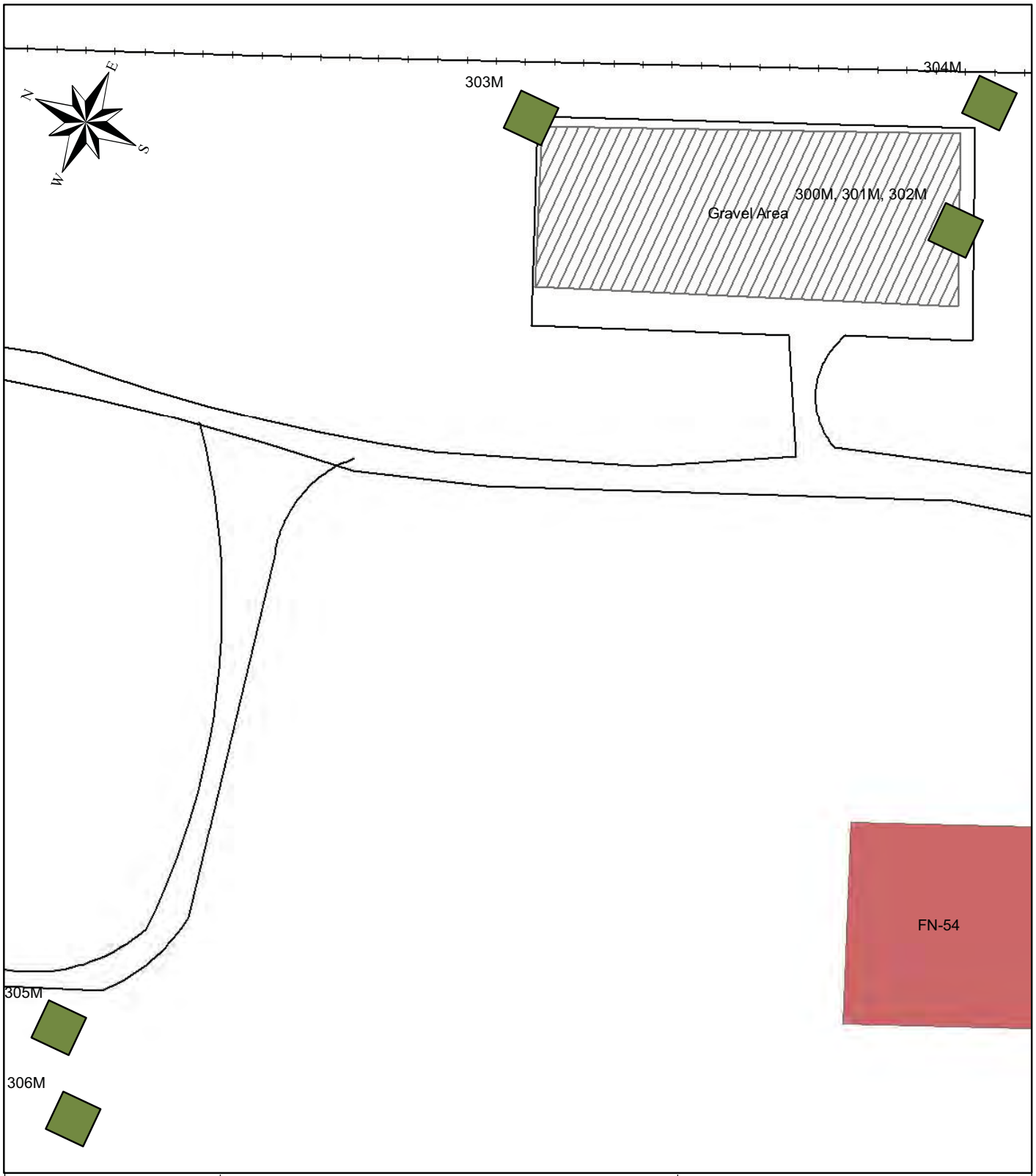
0 110 220 440 Feet

Legend

- Fence Line
- Railroads
- Elevation Contours (1-M)
- Creeks and Streams
- Roads
- Load Line Buildings
- Gravel Area
- Former RI Discrete Samp Locations and Surface Soil Sampling Locations

Figure 3-5
Load Line 12 (LL-12) Sampling Locations

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dba Prudent Environmental Services, Inc.



US Army Corps of Engineers

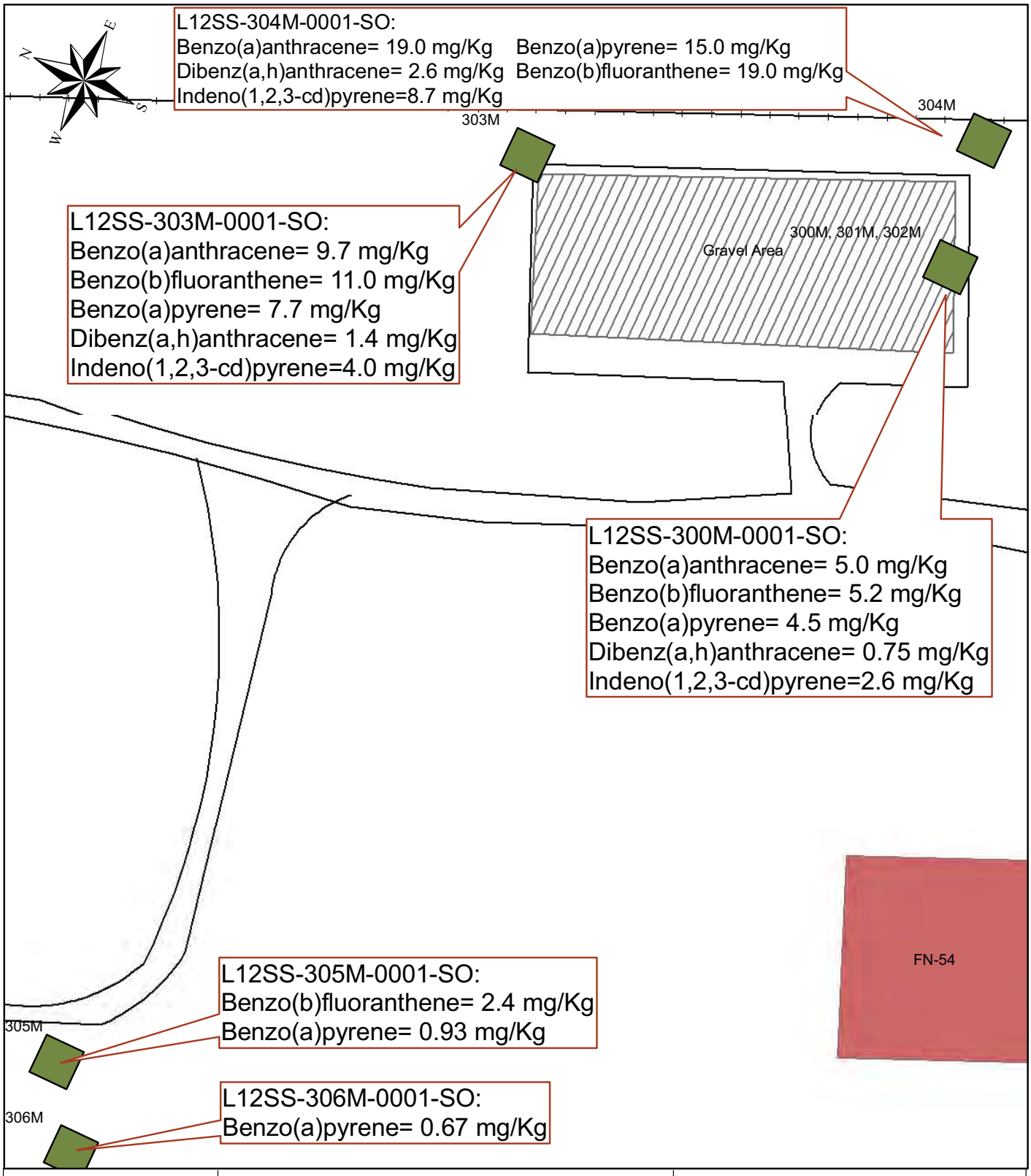
0 30 60 120 Feet

Legend

- Surface Soil ISM Loc
- Gravel Area
- Demolished Building
- Roads
- Railroads

Figure 3-5A
Load Line 12 (LL-12) Sampling Locations

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Figure 3-5B
Load Line 12 (LL-12)
Sample CUG Exceedances

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Table 3-1 Load Lines 1, 2, 3, 4, and 12 Characterization Sampling Identification Numbers

AOC/ Area	Building or Area	DQO #	Reason for Sampling	Type Sampling	Sampling Depth (ft)	Number Borings	Nominal Spacing (Ft)	Sample ID	Laboratory Analyses	Date Completed 2011
LL-1	SW Half of Bldg CB-4A	1	Possibly limit extent of	Subsurface ISM	1 - 3	8	36	LL1SB-640M-0101-SO	Explosives	July 5
			remediation (outside elevator)		3 - 5			LL1SB-640M-0102-SO	Explosives	
			Previous sampling had TNT levels > CUG		5 - 7			LL1SB-640M-0103-SO	Explosives	
	SW-NW Side of Bldg CB-4	2	Bound contamination	Subsurface ISM	1 - 3	8	37	LL1SB-641M-0101-SO	PAHs	July 6
	20-ft Wide		Previous sampling had		3 - 5			LL1SB-641M-0102-SO	PAHs	
			PAH levels > CUG		5 - 7			LL1SB-641M-0103-SO	PAHs	
	NE-SE Side of Bldg CB-4	2	Bound contamination	Subsurface ISM	1 - 3	8	37	LL1SB-642M-0101-SO	PAHs	July 6
	20-ft Wide		Previous sampling had		3 - 5			LL1SB-642M-0102-SO	PAHs	
			PAH levels > CUG		5 - 7			LL1SB-642M-0103-SO	PAHs	
	SW-NW Side of Bldg CB-4A	2	Bound contamination	Subsurface ISM	1 - 3	8	37	LL1SB-643M-0101-SO	PAHs	July 5
	20-ft Wide		Previous sampling had		3 - 5			LL1SB-643M-0102-SO	PAHs	
			PAH levels > CUG		5 - 7			LL1SB-643M-0103-SO	PAHs	
	NE-SE Side of Bldg CB-4A	2	Bound contamination	Subsurface ISM	1 - 3	8	37	LL1SB-644M-0101-SO	Full Suite	July 5
	20-ft Wide		(Primary)		3 - 5			LL1SB-644M-0102-SO	Full Suite	
			Previous sampling had PAH levels > CUG		5 - 7			LL1SB-644M-0103-SO	Full Suite	
	NE-SE Side of Bldg CB-4A	5	Bound contamination	Subsurface ISM	1 - 3	8	37	LL1SB-645M-0101-SO	Full Suite	July 5
	20-ft Wide		(QC)		3 - 5			LL1SB-645M-0102-SO	Full Suite	
			Previous sampling had PAH levels > CUG		5 - 7			LL1SB-645M-0103-SO	Full Suite	

Table 3-1 Continued

AOC/ Area	Building or Area	DQO #	Reason for Sampling	Type Sampling	Sampling Depth (ft)	Number Borings	Nominal Spacing (Ft)	Sample ID	Laboratory Analyses	Date Completed 2011
LL-1	NE-SE Side of Bldg CB-4A	5	Bound contamination	Subsurface ISM	1 - 3	8	37	LL1SB-646M-0101-SO	Full Suite	July 5
	20-ft Wide		(QA)		3 - 5			LL1SB-646M-0102-SO	Full Suite	
			Previous sampling had PAH levels > CUG		5 - 7			LL1SB-646M-0103-SO	Full Suite	
LL-2	SW-NW Side of Bldg DB-4	2	Bound contamination	Subsurface ISM	1 - 3	8	37	LL2SB-512M-0101-SO	PAHs	July 1
	20-ft Wide		Previous sampling had		3 - 5			LL2SB-512M-0102-SO	PAHs	
			PAH levels > CUG		5 - 7			LL2SB-512M-0103-SO	PAHs	
	NE-SE Side of Bldg DB-4	2	Bound contamination	Surface ISM	0 - 1			LL2SS-519M-0001-SO	PAHs, PCBs	July 2
	20-ft Wide		Previous sampling had	Subsurface ISM	1 - 3	8	37	LL2SB-513M-0101-SO	PAHs, PCBs	July 1
			PAH levels > CUG		3 - 5			LL2SB-513M-0102-SO	PAHs, PCBs	
					5 - 7			LL2SB-513M-0103-SO	PAHs, PCBs	
	SW-NW Side of Bldg DB-4A	2	Bound contamination	Subsurface ISM	1 - 3	8	37	LL2SB-514M-0101-SO	PAHs	July 1
	20-ft Wide		Previous sampling had		3 - 5			LL2SB-514M-0102-SO	PAHs	
			PAH levels > CUG		5 - 7			LL2SB-514M-0103-SO	PAHs	
	NE-SE Side of Bldg DB-4A	2	Bound contamination	Subsurface ISM	1 - 3	8	37	LL2SB-515M-0101-SO	PAHs	July 1
	20-ft Wide		Previous sampling had		3 - 5			LL2SB-515M-0102-SO	PAHs	
			PAH, PCBs levels > CUGs		5 - 7			LL2SB-515M-0103-SO	PAHs	
	RI Discrete Sample Location	3	LL2ss-165 w B(a)P = 1.9 mg/kg	Surface ISM	0 - 1	Primary		LL2SS-516M-0001-SO	Full Suite	July 3
					0 - 1	MS/MSD		LL2SS-516M-0002-SO	Full Suite	July 3

Table 3-1 Continued

AOC/ Area	Building or Area	DQO #	Reason for Sampling	Type Sampling	Sampling Depth (ft)	Number Borings	Nominal Spacing (Ft)	Sample ID	Laboratory Analyses	Date Completed 2011
LL-2	RI Discrete Sample Location	3	LL2ss-165 w B(a)P = 1.9 mg/kg	Surface ISM	0 - 1	QC		LL2SS-517M-0001-SO	Full Suite	July3
	RI Discrete Sample Location	3	LL2ss-165 w B(a)P = 1.9 mg/kg	Surface ISM	0 - 1	QA		LL2SS-518M-0001-SO	Full Suite	July3
					0 - 1	QA-MS/MSD		LL2SS-518M-0002-SO	Full Suite	July3
LL-3	SW-NW Side of Bldg EB-4	2	Bound contamination	Surface ISM	0 - 1			LL3SS-423M-0001-SO	PCBs	June 30
	20-ft Wide		Previous sampling had PCB levels > CUG	Subsurface ISM	1 - 3	8	37	LL3SB-412M-0101-SO	PCBs	June 30
					3 - 5			LL3SB-412M-0102-SO	PCBs	
	NE-SE Side of Bldg EB-4	2	Bound contamination	Surface ISM	0 - 1			LL3SS-424M-0001-SO	PCBs	June 30
	20-ft Wide		Previous sampling had PCB levels > CUG	Subsurface ISM	1 - 3	8	37	LL3SB-413M-0101-SO	PCBs	June 30
					3 - 5			LL3SB-413M-0102-SO	PCBs	
					5 - 7			LL3SB-413M-0103-SO	PCBs	
	SW-NW Side of Bldg EB-10	2	Bound contamination	Subsurface ISM	1 - 3	10	39	LL3SB-414M-0101-SO	Arsenic/PAHs	June 29
	20-ft Wide		Previous sampling had		3 - 5			LL3SB-414M-0102-SO	Arsenic/PAHs	
			PAH, Ar levels > CUGs		5 - 7			LL3SB-414M-0103-SO	Arsenic/PAHs	
	NE-SE Side of Bldg EB-10	2	Bound contamination	Subsurface ISM	1 - 3	10	39	LL3SB-415M-0101-SO	Arsenic/PAHs	June 29
	20-ft Wide		Previous sampling had		3 - 5			LL3SB-415M-0102-SO	Arsenic/PAHs	
			PAH, Ar levels > CUGs		5 - 7			LL3SB-415M-0103-SO	Arsenic/PAHs	

Table 3-1 Continued

AOC/ Area	Building or Area	DQO #	Reason for Sampling	Type Sampling	Sampling Depth (ft)	Number Borings	Nominal Spacing (Ft)	Sample ID	Laboratory Analyses	Date Completed 2011
LL-3	RI Discrete Sediment Sample	3	LL3sd-050 w/B(a)P = 3.0 mg/kg J	Sediment ISM	0 - 0.5	Primary		LL3SD-416M-0001-SD	Full Suite	July 2
	RI Discrete Sediment Sample	5	LL3sd-050 w/B(a)P = 3.0 mg/kg J	Sediment ISM	0 - 0.5	QC		LL3SD-417M-0001-SD	Full Suite	July 2
	RI Discrete Sediment Sample	5	LL3sd-050 w/B(a)P = 3.0 mg/kg J	Sediment ISM	0 - 0.5	QA		LL3SD-418M-0001-SD	Full Suite	July 2
	Ph I RI Surf Soil Sample (0 - 2')	3	LL3ss-016 w/B(a)P = 1.0	Surface ISM	0 - 1			LL3SS-419M-0001-SO	PAHs	July 2
		5			0 - 1	MS/MSD		LL3SS-419M-0002-SO	PAHS	July 2
		3		Subsurface ISM	1 - 2			LL3SB-420M-0001-SO	PAHs	July 2
	Ph I RI Surf Soil Sample (0 - 2')	3	LL3ss-028 w/B(a)P = 0.88 mg/kg	Surface ISM	0 - 1			LL3SS-421M-0001-SO	PAHs	July 2
		3		Subsurface ISM	1 - 2			LL3SB-422M-0001-SO	PAHs	July 2
LL-4	20-ft wide along north side	2	Building G-8	Subsurface ISM	1 - 3	8	41	LL4SB-407M-0101-SO	PAHs	June 27
			(Primary)		3 - 5			LL4SB-407M-0101-SO	PAHs	
			Previous sampling had PAH levels > CUG		5 - 7			LL4SB-407M-0101-SO	PAHs	
	Area South of Building G-8	2	Bound south side of	Subsurface ISM	1 - 3	8	41	LL4SB-410M-0101-SO	PAHs	June 27
	20-ft wide along south side		Building G-8		3 - 5			LL4SB-410M-0101-SO	PAHs	
			Previous sampling had PAH levels > CUG		5 - 7			LL4SB-410M-0101-SO	PAHs	

Table 3-1 Continued

AOC/ Area	Building or Area	DQO #	Reason for Sampling	Type Sampling	Sampling Depth (ft)	Number Borings	Nominal Spacing (Ft)	Sample ID	Laboratory Analyses	Date Completed 2011
LL-4	NE Half of Bldg G-8	1	Possibly limit extent of	Subsurface ISM	1 - 3	8	41	LL4SB-411M-0101-SO	PAHs	June 27
			remediation (URS G-8 #2) had		3 - 5			LL4SB-411M-0102-SO	PAHs	
			no elevated SVOCs		5 - 7			LL4SB-411M-0103-SO	PAHs	
	Half-width of G-8, Adj to	2	Bound west side of	Surface ISM	0 - 1			LL4SS-412M-0001-SO	PAHs	June 26
	SW End of Bldg G-8		Building G-8	Subsurface ISM	1 - 3	8	41	LL4SB-413M-0101-SO	PAHs	June 28
			Previous sampling had PAH levels > CUG		3 - 5			LL4SB-413M-0102-SO	PAHs	
					5 - 7			LL4SB-413M-0103-SO	PAHs	
	Half-width of G-8, Adj to	2	Bound west side of	Surface ISM	0 - 1			LL4SS-414M-0001-SO	PAHs	June 29
					0 - 1	MS/MSD		LL4SS-414M-0002-SO	PAHS	June 29
	SW End of Sample LL4SS-414	2	Building G-8	Subsurface ISM	1 - 3	8	41	LL4SB-415M-0101-SO	PAHs	June 28
			Previous sampling had PAH levels > CUG		3 - 5			LL4SB-415M-0102-SO	PAHs	
					5 - 7			LL4SB-415M-0103-SO	PAHs	
	RI Discrete Sample Location	3	LL4ss-045 w B(a)P = 2.1 mg/kg	Surface ISM	0 - 1	Primary		LL4SS-416M-0001-SO	Full Suite	June 26
		5			0 - 1	MS/MSD		LL4SS-416M-0002-SO	Full Suite	June 26
	RI Discrete Sample Location	5	LL4ss-045 w B(a)P = 2.1 mg/kg	Surface ISM	0 - 1	QC		LL4SS-417M-0001-SO	Full Suite	June 26
	RI Discrete Sample Location	5	LL4ss-045 w B(a)P = 2.1 mg/kg	Surface ISM	0 - 1	QA		LL4SS-418M-0001-SO	Full Suite	June 26
	RI Discrete Sample Location	3	LL4ss-158 w B(a)P = 0.95 mg/kg	Surface ISM	0 - 1			LL4SS-419M-0001-SO	PAHs	June 26

Table 3-1 Continued

AOC/ Area	Building or Area	DQO #	Reason for Sampling	Type Sampling	Sampling Depth (ft)	Number Borings	Nominal Spacing (Ft)	Sample ID	Laboratory Analyses	Date Completed 2011
LL-4	Ph I RI Surf Soil Sample (0 - 2')	3	LL4ss-034 W B(a)P = 0.45 mg/kg	Surface ISM	0 - 1			LL4SS-420M-0001-SO	PAHs	June 26
		3		Subsurface ISM	1 - 2			LL4SS-421M-0001-SO	PAHs	June 26
LL-12	RI Discrete Sample Location	3	L12ss-059 w B(a)P = 3.5 mg/kg	Surface ISM	0 - 1	Primary		L12SS-300M-0001-SO	Full Suite	July 3
	RI Discrete Sample Location	5	L12ss-059 w B(a)P = 3.5 mg/kg	Surface ISM	0 - 1	QC		L12SS-301M-0001-SO	Full Suite	July 3
	RI Discrete Sample Location	5	L12ss-059 w B(a)P = 3.5 mg/kg	Surface ISM	0 - 1	QA		L12SS-302M-0001-SO	Full Suite	July 3
	RI Discrete Sample Location	3	L12ss-060 w B(a)P = 4.7 mg/kg	Surface ISM	0 - 1			L12SS-303M-0001-SO	PAHs	June 26
	RI Discrete Sample Location	3	L12ss-064 w B(a)P = 24.0 mg/kg	Surface ISM	0 - 1			L12SS-304M-0001-SO	PAHs	June 26
		5			0 - 1	MS/MSD		L12SS-304M-0002-SO	PAHS	June 26
	RI Discrete Sample Location	3	L12ss-099 w B(a)P = 0.82 mg/kg	Surface ISM	0 - 1			L12SS-305M-0001-SO	PAHs	June 26
	RI Discrete Sample Location	3	L12ss-100 w B(a)P = 0.65 mg/kg	Surface ISM	0 - 1			L12SS-306M-0001-SO	PAHs	June 26
Borrow	Backfill Borrow Source	4	Evaluate for Approved Backfill	Surface ISM	0 - 1	Primary		CHASS-001M-0001-SO	Full Suite	June 29
	Backfill Borrow Source	5	Evaluate for Approved Backfill	Surface ISM	0 - 1	QC		CHASS-002M-0001-SO	Full Suite	June 29
	Backfill Borrow Source	5	Evaluate for Approved Backfill	Surface ISM	0 - 1	QA		CHASS-003M-0001-SO	Full Suite	June 29

Notes:

B(a)P = Benzo(a)pyrene
PAH = Polycyclic aromatic hydrocarbons
CHA = Charlestown Sand and Gravel Quarry
PCB = Polychlorinated biphenyl
Full Suite includes Target Analyte Metals, mercury, hexavalent chromium, explosives, propellants, semi-volatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), and volatile organic compounds (VOCs)

3.4 LABORATORY PROCEDURES

3.4.1 Laboratory Sample Preparation

Both laboratories began the laboratory sample preparation by air drying the entire ISM sample, and then sieving the entire sample through a #10 sieve.

At the primary laboratory, the next step was disaggregation of the entire sample by use of a rotary hammer soil disaggregator. Essentially the soil clumps were broken up. Representative portions of the disaggregated matrix were then selected and subjected to the prescribed set of laboratory analyses.

At the quality control laboratory, a puck mill was utilized to mill the entire air-dried sample. Five cycles of 1 minute milling and then 1 minute of cool down were utilized. This process reduced the matrix to a powdery consistency. Representative portions of the milled matrix were then selected and subjected to the prescribed set of laboratory analyses.

3.4.2 Analytical Procedures

The laboratory analyses associated with the characterization sampling were tailored to the data quality objectives of the sampling. Thus where there was concern of possible polycyclic aromatic hydrocarbon (PAH) contamination, only laboratory analysis, EPA SW-846 Method 8310 for PAHs were conducted. The reporting limits of this procedure are lower than those associated with EPA SW-846 Method 8270 (B). At locations where only explosives were of concern, US EPA Method 8330 was performed as per the current FWSAP. As per the FWSAP, a set of triplicate samples with full suite analyses were collected at each of the five load lines and the potential borrow source, and MS/MSD samples and equipment rinsate samples were collected per the Facility-Wide Quality Assurance Project Plan (FWQAPP, SAIC, 2011).

3.5 SAMPLING CHRONOLOGY

Table 3-2 shows the dates of the field activities conducted during the characterization sampling.

Table 3-2 Chronology of Characterization Sampling Activities

Date	Non-Sampling	Sampling			
		Load Line	Building/ RI Location	Horizontal Sample IDs	Type
24,25 Jun 11	Mobilization				
26 Jun 11		4	G-8	LL4SS-412M-0001-SO	Surface
		4	G-8	LL4SS-414M-0001-SO	Surface
		4	LL4ss-045	LL4SS-416M/V-0001-SO	Surface- Primary
		4	LL4ss- 045	LL4SS-417M/V-0001-SO	Surface- QC
		4	LL4ss- 045	LL4SS-418M/V-0001-SO	Surface- QA
		4	LL4ss- 158	LL4SS-419M-0001-SO	Surface
		4	LL4ss- 034	LL4SS-420M-0001-SO	Surface
		4	LL4ss-034	LL4SB-421M-0001-SO	Subsurface (1' – 2')
		4	LL4ss-045	LL4SS-416M-0002-SO	Surface- MS/MSD
		12	L12ss-099	L12SS-305M-0001-SO	Surface
		12	L12ss- 100	L12SS-306M-0001-SO	Surface
		12	L12ss-060	L12SS-303M-0001-SO	Surface
		12	L12ss-064	L12SS-304M-0001-SO	Surface
		12	L12ss-064	L12SS-304M-0002-SO	Surface- MS/MSD
27 Jun 11		4	G-8	LL4SB-411M---	Subsurface
		4	G-8	LL4SB-410M---	Subsurface
		4	G-8	LL4SB-407M---	Subsurface
28 Jun 11		4	G-8	LL4SB-415M---	Subsurface
		4	G-8	LL4SB-413M---	Subsurface
29 Jun 11		3	EB-10	LL3SB-414M---	Subsurface
		3	EB-10	LL3SB-415M---	Subsurface
	Charlestown Quarry		Backfill	CHASS-001M/V-0001-SO	Surface- Primary
	Charlestown Quarry		Backfill	CHASS-002M/V-0001-SO	Surface- QC
	Charlestown Quarry		Backfill	CHASS-003M/V-0001-SO	Surface-QA
30 Jun 11		3	EB-4	LL3SS-423M-0001-SO	Surface
			EB-4	LL3SS-424M-0001-SO	Surface
			EB-4	LL3SB-412M---	Subsurface
			EB-4	LL3SB-413M---	Subsurface
1 Jul 11		2	DB-4	LL2SB-512M---	Subsurface
			DB-4	LL2SB-513M---	Subsurface
			DB-4A	LL2SB-514M---	Subsurface
			DB-4A	LL2SB-515M---	Subsurface
			Equip Rinsate	Equipment Rinsate 1	

Date	Non-Sampling	Sampling			
		Load Line	Building/ RI Location	Horizontal Sample IDs	Type
2 Jul 11		3	LL3sd-050	LL3SD-416M/V-0001-SD	Sediment-Primary
		3	LL3sd-050	LL3SD-417M/V-0001-SD	Sediment- QC
		3	LL3sd-050	LL3SD-418M/V-0001-SD	Sediment- QA
		3	LL3ss-016	LL3SS-419M-0001-SO	Surface
		3	LL3ss-016	LL3SS-419M-0002-SO	Surface- MS/MSD
		3	LL3ss-016	LL3SB-420M-0001-SO	Subsurface (1' -2')
		3	LL3ss-028	LL3SS-421M-0001-SO	Surface
		3	LL3ss-028	LL3SB-422M-0001-SO	Subsurface (1'-2')
		2	DB-4	LL2SS-519M-0001-SO	Surface
3 Jul 11		2	LL2ss-165	LL2SS-516M/V-0001-SO	Surface- Primary
		2	LL2ss-165	LL2SS-516M-0002-SO	Surface- MS/MSD
		2	LL2ss-165	LL2SS-517M/V-0001-SO	Surface- QC
		2	LL2ss-165	LL2SS-518M/V-0001-SO	Surface- QA
		2	LL2ss-165	LL2SS-518M-0002-SO	Surface- QA MS/MSD
		12	L12ss-059	L12SS-300M/V-0001-SO	Surface- Primary
		12	L12ss-059	L12SS-301M/V-0001-SO	Surface- QC
		12	L12ss-059	L12SS-302M/V-0001-SO	Surface- QA
5 Jul 11		1	CB-4A	LL1SB-644M/V---	Subsurface- Primary
		1	CB-4A	LL1SB-645M/V---	Subsurface- QC
		1	CB-4A	LL1SB-646M/V---	Subsurface- QA
		1	CB-4	LL1SB-643M---	Subsurface
		1	CB-4	LL1SB-640M---	Subsurface
6 Jul 11		1	CB-4	LL1SB-641M---	Subsurface
		1	CB-4	LL1SB-642M---	Subsurface
			Equip Rinsate 2	Equipment Rinsate 2	
	Demobilization				

Notes:

M = Multi-Increment or incremental sampling methodology

M/V = Multi-Increment and Volatile Samples

Subsurface soil ISM samples extend from 1' – 7' bgs, and comprise three horizontal subsurface soil samples 1'-3', 3'-5', and 5'-7', unless otherwise noted.

Full Suite includes Target Analyte Metals, mercury, hexavalent chromium, explosives, propellants, semi-volatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), and volatile organic compounds (VOCs)

4.0 SAFETY/ANOMALY AVOIDANCE

The field investigation was conducted according to the Facility-Wide Safety and Health Plan (SAIC, 2011) and the Site Safety and Health Plan (SHHP) Addendum contained within the work plan for this project (Prudent, 2010). A daily tailgate meeting was conducted each morning prior to any field activities to note both past and present safety concerns. This information was also shared with the subcontractor driller. Logs of these meetings are provided as Appendix A. During the field activities, a radio provided by the facility and multiple cell phones were with personnel in the field. Surface and subsurface anomaly avoidance was conducted at all borings prior to beginning or advancing a boring. Monitoring for VOCs was performed utilizing a photoionization detector (PID) at the boring locations each time a Geoprobe sample was removed from a boring. No elevated readings were noted during the course of the investigation.

5.0 DECONTAMINATION

The driller decontaminated the core barrel shoe in the field after the completion of each boring prior to beginning the next boring. The tools used to collect soil samples from the Geoprobe tubes were the Terra Core samplers for volatile organic compounds (VOCs) and the aluminum wedge samplers for the non-VOC samples. The Terra Core samplers were a one-time use, disposable item and thus did not require decontamination. The aluminum wedge samplers were decontaminated per the FWSAP protocols. To evaluate the efficiency of the decontamination process, one set of rinsate samples was collected each week that sampling occurred. No measurable contamination was detected in any of the rinsate samples indicating that the decontamination process was effective. After the aluminum wedge samplers had been decontaminated, they were air-dried, and then wrapped in aluminum foil and placed in a covered plastic bin for transport to the field sites.

6.0 WASTE MANAGEMENT

6.1 FIELD COLLECTION OF WASTE MATERIALS

The waste materials generated in the field comprised soil cuttings (from the Geoprobe tubes), personal protective equipment (PPE), spent empty Geoprobe liners, used Terra Core samplers, and general non-environmental trash. The soil cuttings were primarily collected in plastic garbage liners placed inside 5-gallon buckets. Additional soil materials were collected on the clear 6-millimeter plastic sheeting placed on the ground at the end of the cutting table and below the two 5-gallon buckets used for collecting soil cuttings. A large garbage bag was used to contain the used nitrile gloves, the used Terra Core samplers, and cut-up pieces of Geoprobe liners. A long-handled steel lopper was used to cut the Geoprobe liners into 12 to 18 inch pieces. Finally, a large garbage bag was used to collect general non-environmental waste. The 5-gallon buckets used in the field for hand wash and rinse were brought to Building 1036 and their contents emptied into the 55-gallon drum for decontamination water. The buckets for soil cuttings and the large garbage bags for PPE were brought back to Building 1036 and placed in appropriately labeled 55-gallon open-headed drums.

6.2 DECONTAMINATION WATER

The water from the decontamination at Building 1036 was emptied periodically into the 55-gallon drum for decontamination water. As mentioned above, the field wash and rinse waters were also placed in this drum.

6.3 NON-ENVIRONMENTAL TRASH

Garbage bags containing non-environmental trash were periodically emptied at the large trash dumpster at Building 1038.

6.4 FACILITY COORDINATION

An RVAAP weekly non-hazardous and hazardous waste inventory sheet was completed per the protocol followed by the facility to track such waste materials. The 55-gallons drums used to temporarily store waste materials were labeled per the protocol detailed in the FWSAP and are inspected weekly.

6.5 DISPOSITION OF DRUMS

Ten (10) 55-gallon drums of IDW were generated as indicated below.

Project	Type IDW	Number of Drums	Means of Determining Disposition
LLs 1-4, 12	Decontamination Water	1	Sampled 10/4/11- Analyze TCLP[1] Sampled 12/20/11- Analyze TCLP[2]
LLs 1-4, 12	PPE[3] and geoprobe liners	7	20-fold dilution factor for soils[4]
LLs 1-4, 12	Soil Cuttings from LLs 1-4, 12	2	20-fold dilution factor for soils[4]
			Sampled 1/27/2012- Analyze PCBs[5]

TCLP[1] = Toxicity Characteristic Leaching Procedure for TAL metals, flash point, pH, reactive cyanide, reactive sulfide

TCLP[2] = Toxicity Characteristic Leaching Procedure for herbicides, pesticides, semi-volatiles, volatiles

PPE[3] = Personal protective equipment

20-fold dilution factor for soil[4] =Per Paragraph 8.4 of the Facility-Wide Sampling and Analysis Plan for Environmental Investigations, SAIC, February 24, 2011.

PCBs[5] = Polychlorinated biphenyls

Emerald Environmental of Kent, Ohio, working as a subcontractor to Prudent Technologies, Inc., sampled the one drum of decontamination water on October 4, 2011 and again on December 20, 2011, and found the samples to be non-DOT regulated, nonhazardous for disposal, see Appendix I.

As per Paragraph 8.4 of the Facility-Wide Sampling and Analysis Plan for Environmental Investigations (FWSAP) at the Ravenna Army Ammunition Plant, Ravenna, Ohio, February 24, 2011, the analytical results of the project samples were compared with the Toxicity Characteristic Leaching Procedure (TCLP) criteria by use of the 20-fold TCLP dilution factor for soils. Hard (paper) copies of the analytical results of the characterization samples and a CD containing the associated case narratives were previously submitted. None of the results were at levels that exceed the 20-fold TCLP criteria for Resource Conservation and Recovery Act (RCRA) hazardous waste. However, a level of polychlorinated biphenyl (PCB) 1254 of 100 mg/kg was measured from Sample LL3SB-413M-0101-SO indicating the possibility that the soil cuttings associated with that sample must be considered as PCB containing material. Since all the soil cuttings were comingled, the two drums of soil cuttings could be considered as PCB containing material. To better characterize the two drums of soil cuttings, samples from each of the drums were collected as per Paragraph 8.4.1 of the FWSAP on January 27, 2012. The two samples were analyzed for PCBs and the results were non-detect (< 0.2 mg/kg) for one drum and 0.43 mg/kg for the sample from the other drum. Chain of custodies and analytical results of the IDW sampling are provided in Appendix H, along the Material Characterization sheets used for disposal. Please note that the Material Characterization sheets also included three drums from the RVAAP CC-78 project; one drum each of decontamination fluids, soil cuttings, and geoprobe liners, PPE, and rags.

Based on the above, the ten (10) drums of IDW were disposed of as follows:

1 Drum of Decontamination Water

Special Waste

Vexor Technologies

Medina, OH

7 Drums of PPE and Geoprobe Liners

Special Waste

Vexor Technologies

Medina, OH

2 Drums of Soil Cuttings

Special Waste

Vexor Technologies

Medina, OH

7.0 INVESTIGATION RESULTS

Analytical results of the surface soil and subsurface soil ISM samples taken during June – July 2011 are provided in the following tables. All results are compared with the minimum of the appropriate sets of CUGs for the National Guard Trainee and Resident Adult Farmer or the Regional Screening Level (RSL), where no CUGs are available. A listing of the National Guard Trainee, Resident Adult Farmer, and RSLs CUGs are provided as Table 7-1A and 7-1B, respectively for surface soils and subsurface soils.

Triplicate sample (Primary, QC, and QA) results are presented in the Table sample tables as well. Where triplicate sample results are presented, the relative standard deviation (RSD) for individual analyses are calculated for detections and an average RSD is shown at the bottom of the table for that set of analyses. Evaluation of the triplicate results in provided in Section 8.5.

A listing of the samples and analytical results that exceeded at least one of the Ravenna (CUGs) is provided as Table 7-2.

Sampling results are provided as Tables 7-3 through 7-8.

Table 7-1A Facility-Wide Surface Soil Clean-Up Goals

Chemical	Units	Clean-up Goal	National Guard Trainee Surface Soil CUG		Background	Resident Farmer Adult Surface Soil CUG		RSL for Chemicals w/No FWCUG 10^{-5} or HI =1
			Non-Cancer HI = 1	Cancer Risk = 10^{-5}		Non-Cancer HI = 1	Cancer Risk = 10^{-5}	
Inorganics								
Aluminum	mg/kg	34,960	34,960	*	17,700	529,229	*	
Antimony	mg/kg	136	1,753	*	0.96	136	*	
Arsenic	mg/kg	19.8	1,140	27.8	15.4	82.1	4.25	
Barium	mg/kg	3,506	3,506	*	88.4	89,656	*	
Beryllium	mg/kg	160			0.88			160
Cadmium	mg/kg	109	3,292	109	0	223	12,491	
Chromium (as Cr-3)	mg/kg	196,942	1,000,000	*	17.4	196,942	*	
Chromium, hexavalent	mg/kg	16.4	56.1	16.4	*	904	1,874	
Cobalt	mg/kg	70.3	140	70.3	10.4	8,198	8,030	
Copper	mg/kg	27,138	253,680	*	17.7	27,138	*	
Lead	mg/kg	4,000			26.1			4,000
Iron	mg/kg	190,104	1,000,000	*	23,100	190,104	*	*
Manganese	mg/kg	3,030	351	*	1,450	14,817	*	
Mercury	mg/kg	165	1,722	*	0.036	165	*	
Nickel	mg/kg	13,463	126,391	*	21.1	13,463	*	
Nitrate	mg/kg	1,000,000	1,000,000	*	*	1,000,000	*	
Selenium	mg/kg	390			1.4			390
Silver	mg/kg	3,240	31,049	*	0	3,240	*	
Thallium	mg/kg	47.6	477	*	0	47.6	*	
Vanadium	mg/kg	1,558	23,045	*	31.1	1,558	*	
Zinc	mg/kg	196,589	1,000,000	*	61.8	196,589	*	
Explosives - Propellants								
1,3,5 Trintrobenzene	mg/kg	15,280	165,422	*	*	15,280	*	
1,3 Dinitrobenzene	mg/kg	59.4	596.0	*	*	59.4	*	
2,4,6 Trinitrotoluene	mg/kg	211	2,488	4,643	*	211	328	
2,4 Dinitrotoluene	mg/kg	7.53	6,519	134	*	439	7.53	
2,6 Dinitrotoluene	mg/kg	7.69	3,309	136	*	224	7.69	
2-Amino-4,6 Dinitrotoluene	mg/kg	128	1,237	*	*	128	*	
4-Amino-2,6-dinitrotoluene	mg/kg	128	1,237	*	*	128	*	
Nitrobenzene	mg/kg	48					48	
2 Nitrotoluene	mg/kg	60.3	59,611	726	*	5,945	60.3	

Table 7-1A Continued

Chemical	Units	Clean-up Goal	National Guard Trainee		Background	Resident Farmer Adult		RSL for Chemicals w/No FWCUG 10^{-5} or HI =1
			Surface Soil FWCUG			Surface Soil FWCUG		
			Non-Cancer HI = 1	Cancer Risk = 10^{-5}		Non-Cancer HI = 1	Cancer Risk = 10^{-5}	
Explosives - Propellants								
3 Nitrotolueme	mg/kg	6.1						6.1
4 Nitrotoluene	mg/kg	816	59,611	9,818	*	5,945	816	
HMX	mg/kg	19,090	234,645	*	*	19,090	*	
RDX	mg/kg	1,452	17,113	1,452	*	1,632	*	
Tetryl	mg/kg	240						240
Nitroguanadine	mg/kg	6,100						6,100
Nitroglycerin	mg/kg	816	*	9,818	*	*	816	

Table 7-1A Continued

Chemical	Units	Clean-up Goal	EPA Region 9 2008 for COCs w/No FWCUG 10-5 or HI =1	RSL for Chemicals w/No FWCUG 10-5 or HI =1
Volatiles				
1,1,1 Trichloroethane	mg/kg	8700		8700
1,1,2,2 Tetrachloroethane	mg/kg	5.6		5.6
1,1,2 Trichloroethane	mg/kg	11		11
1,1 Dichloroethane	mg/kg	33		33
1,1 Dichloroethene	mg/kg	120	120	
1,2 Dibromoethane	mg/kg	0.34		0.34
1,2 Dichloroethane	mg/kg	4.3		4.3
1,2 Dichloroethene (total)	mg/kg	700		700
1,2 Dichloropropane	mg/kg	8.8		8.8
2 Butanone	mg/kg	22000	22000	
2 Hexanone	mg/kg	210		210
4 Methyl-2-pentanone	mg/kg	5300	5300	
Acetone	mg/kg	61000		61000
Benzene	mg/kg	11		11
Bromochloromethane	mg/kg	8.2	8.2	
Bromodichloromethane	mg/kg	2.7		2.7

Table 7-1A Continued

Chemical	Units	Clean-up Goal	National Guard Trainee Surface Soil FWCUG		Resident Farmer Adult Surface Soil FWCUG	
			Non-Cancer HI = 1	Cancer Risk = 10-5	Non-Cancer HI = 1	Cancer Risk = 10-5
Semi-Volatiles						
2 Methylnaphtalene	mg/kg	2,378	23,845	*	2,378	*
4 Chloro-3-methylphenol	mg/kg	*	*	*	*	*
4 Nitrophenol	mg/kg	4,756	47,689	*	4,756	*
Benzo(a) anthracene	mg/kg	2.21	*	47.7	*	2.21
Benzo(a) pyrene	mg/kg	0.221	*	4.77	*	0.221
Benzo(b) fluoranthene	mg/kg	2.21	*	4.77	*	2.21
Benzo(k) fluoranthene	mg/kg	22.1	*	477	*	22.1
Bis(2-chloroethoxy)methane	mg/kg	1,783	17,883	*	1,783	*
Carbazole	mg/kg	694	*	8,346	*	694
Chrysene	mg/kg	221	*	4,774	*	221
Dibenz(a,h) anthracene	mg/kg	0.221	*	4.77	*	0.221
Dibenzofuran	mg/kg	1,189	11,922	*	1,189	*
Fluoranthene	mg/kg	2,765	50,868	*	2,765	*
Fluorene	mg/kg	7,366	114,583	*	7,366	*
Indeno(1,2,3-cd) pyrene	mg/kg	2.21	*	47.7	*	2.21
N-Nitroso-di-n-propylamine	mg/kg	1.27	*	19	*	1.27
Naphthalene	mg/kg	3,678	15,407	*	3,678	*
Pentachlorophenol	mg/kg	21.2	56,558	440	3,269	21.2
Pyrene	mg/kg	2,074	38,151	*	2,074	*
PESTICIDES & PCBs						
4,4-DDE	mg/kg	40.8	*	491	*	40.8
Aldrin	mg/kg	0.8	179	7.88	17.8	0.816
Dieldrin	mg/kg	0.9	298	8.39	29.7	0.867
Endrin	mg/kg	17.7	330	*	17.7	*
Endrin aldehyde	mg/kg	0.0	*	*	*	*
Heptachlor	mg/kg	3.1	2,981	29.8	297	3.08
Heptachlor epoxide	mg/kg	1.5	77.5	14.8	7.73	1.52
PCB-1016	mg/kg	2.0	192	34.6	12.2	2.03
PCB-1248	mg/kg	2.0	*	34.6	*	2.03
PCB-1254	mg/kg	2.0	54.9	34.6	3.48	2.03
PCB-1260	mg/kg	2.0	*	34.6	*	2.03
alpha-Chlordane	mg/kg	0.0	*	*	*	*
beta-BHC	mg/kg	7.7	*	74.2	*	7.7
gamma-Chlordane	mg/kg	0.0	*	*	*	*

Table 7-1A Continued

Chemical	Units	Clean-up Goal	EPA Region 9 2008 for COCs w/No FWCUG 10-5 or HI =1	RSL for Chemicals w/No FWCUG 10-5 or HI =1
Volatiles				
Bromoform	mg/kg	610		610
Bromomethane	mg/kg	7.3		7.3
Carbon disulfide	mg/kg	820		820
Carbon tetrachloride	mg/kg	6.1		6.1
Chlorobenzene	mg/kg	290		290
Chloroethane	mg/kg	30	30	
Chloroform	mg/kg	2.9		2.9
Chloromethane	mg/kg	120		120
Cis-1,3-dichloropropene	mg/kg	17		17
Dibromochloromethane	mg/kg	6.8		6.8
Ethyl benzene	mg/kg	54		54
Methylene chloride	mg/kg	110		110
Styrene	mg/kg	6300		6300
Tetrachloroethene	mg/kg	4.8	4.8	
Toluene	mg/kg	5000		5000
Trans-1,3-dichloropropene	mg/kg	17		17
Trichloroethene	mg/kg	0.53	0.53	
Vinyl chloride	mg/kg	0.6		0.6
Xylenes (total)	mg/kg	630		630

Notes:
COC = Chemical of concern
EPA = US Environmental Protection Agency
FWCUG = Facility Wide Clean-up Goal
HI = Hazard index
Mg/kg = Milligrams/kilogram
PCB = Polychlorinated biphenyl
RSL = Regional screening level

Table 7-1B Facility-Wide Subsurface Soil Clean-Up Goals

Chemical	Units	Clean-up Goal	National Guard Trainee Subsurface Soil CUG		Background	Resident Farmer Adult Subsurface Soil CUG		RSL for Chemicals w/No FWCUG 10^{-5} or HI =1
			Non-Cancer HI = 1	Cancer Risk = 10^{-5}		Non-Cancer HI = 1	Cancer Risk = 10^{-5}	
Inorganics								
Aluminum	mg/kg	34,960	34,960	*	19,500	529,229	*	*
Antimony	mg/kg	136	1,753	*	0.96	136	*	*
Arsenic	mg/kg	19.8	1,140	27.8	19.8	82.1	4.25	*
Barium	mg/kg	3,506	3,506	*	124.0	89,656	*	*
Beryllium	mg/kg	160	*	*	0.88	*	*	160
Cadmium	mg/kg	109	3,292	109	0	223	12,491	*
Chromium (as Cr-3)	mg/kg	196,942	1,000,000	*	27.2	196,942	*	*
Chromium, hexavalent	mg/kg	16.4	56.1	16.4	*	904	1,874	*
Cobalt	mg/kg	70.3	140	70.3	23.2	8,198	8,030	*
Copper	mg/kg	27,138	253,680	*	32.2	27,138	*	*
Lead	mg/kg	4,000	*		19.1	*	*	4,000
Iron	mg/kg	190,104	1,000,000	*	35,200	190,104	*	*
Manganese	mg/kg	3,030	351	*	3,030	14,817	*	*
Mercury	mg/kg	165	1,722	*	0.044	165	*	*
Nickel	mg/kg	13,463	126,391	*	60.7	13,463	*	*
Nitrate	mg/kg	1,000,000	1,000,000	*	*	1,000,000	*	*
Selenium	mg/kg	390	*	*	1.5	*	*	390
Silver	mg/kg	3,240	31,049	*	0	3,240	*	*
Thallium	mg/kg	47.6	477	*	0.91	47.6	*	*
Vanadium	mg/kg	1,558	23,045	*	37.6	1,558	*	*
Zinc	mg/kg	196,589	1,000,000	*	93.3	196,589	*	*
Explosives - Propellants								
1,3,5 Trintrobenzene	mg/kg	15,280	165,422	*	*	15,280	*	
1,3 Dinitrobenzene	mg/kg	59.4	596.0	*	*	59.4	*	
2,4,6 Trinitrotoluene	mg/kg	211	2,488	4,643	*	211	328	
2,4 Dinitrotoluene	mg/kg	7.53	6,519	134	*	439	7.53	
2,6 Dinitrotoluene	mg/kg	7.69	3,309	136	*	224	7.69	
2-Amino-4,6 Dinitrotoluene	mg/kg	128	1,237	*	*	128	*	
4-Amino-2,6-dinitrotoluene	mg/kg	128	1,237	*	*	128	*	
Nitrobenzene	mg/kg	48					48	
2 Nitrotoluene	mg/kg	60.3	59,611	726	*	5,945	60.3	

Table 7-1B Continued

Chemical	Units	Clean-up Goal	National Guard Trainee Subsurface Soil FWCUG		Background	Resident Farmer Adult Subsurface Soil FWCUG		RSL for Chemicals w/No FWCUG 10^{-5} or HI =1
			Non-Cancer HI = 1	Cancer Risk = 10^{-5}		Non-Cancer HI = 1	Cancer Risk = 10^{-5}	
Explosives - Propellants								
3 Nitrotolueme	mg/kg	6.1						6.1
4 Nitrotoluene	mg/kg	816	59,611	9,818	*	5,945	816	
HMX	mg/kg	19,090	234,645	*	*	19,090	*	
RDX	mg/kg	1,452	17,113	1,452	*	1,632	*	
Tetryl	mg/kg	240						240
Nitroguanadine	mg/kg	6,100						6,100
Nitroglycerin	mg/kg	816	*	9,818	*	*	816	

Table 7-1B Continued

Chemical	Units	Clean-up Goal	EPA Region 9 2008 for COCs w/No FWCUG 10-5 or HI =1	RSL for Chemicals w/No FWCUG 10-5 or HI =1
Volatiles				
1,1,1 Trichloroethane	mg/kg	8700		8700
1,1,2,2 Tetrachloroethane	mg/kg	5.6		5.6
1,1,2 Trichloroethane	mg/kg	11		11
1,1 Dichloroethane	mg/kg	33		33
1,1 Dichloroethene	mg/kg	120	120	
1,2 Dibromoethane	mg/kg	0.34		0.34
1,2 Dichloroethane	mg/kg	4.3		4.3
1,2 Dichloroethene (total)	mg/kg	700		700
1,2 Dichloropropane	mg/kg	8.8		8.8
2 Butanone	mg/kg	22000	22000	
2 Hexanone	mg/kg	210		210
4 Methyl-2-pentanone	mg/kg	5300	5300	
Acetone	mg/kg	61000		61000
Benzene	mg/kg	11		11
Bromochloromethane	mg/kg	8.2	8.2	
Bromodichloromethane	mg/kg	2.7		2.7

Table 7-1B Continued

Chemical	Units	Clean-up Goal	National Guard Trainee Subsurface Soil FWCUG		Resident Farmer Adult Subsurface Soil FWCUG	
			Non-Cancer HI = 1	Cancer Risk = 10-5	Non-Cancer HI = 1	Cancer Risk = 10-5
Semi-Volatiles						
2 Methylnaphtalene	mg/kg	2,378	23,845	*	2,378	*
4 Chloro-3-methylphenol	mg/kg	*	*	*	*	*
4 Nitrophenol	mg/kg	4,756	47,689	*	4,756	*
Benzo(a) anthracene	mg/kg	2.21	*	47.7	*	2.21
Benzo(a) pyrene	mg/kg	0.221	*	4.77	*	0.221
Benzo(b) fluoranthene	mg/kg	2.21	*	4.77	*	2.21
Benzo(k) fluoranthene	mg/kg	22.1	*	477	*	22.1
Bis(2-chloroethoxy)methane	mg/kg	1,783	17,883	*	1,783	*
Carbazole	mg/kg	694	*	8,346	*	694
Chrysene	mg/kg	221	*	4,774	*	221
Dibenz(a,h) anthracene	mg/kg	0.221	*	4.77	*	0.221
Dibenzofuran	mg/kg	1,189	11,922	*	1,189	*
Fluoranthene	mg/kg	2,765	50,868	*	2,765	*
Fluorene	mg/kg	7,366	114,583	*	7,366	*
Indeno(1,2,3-cd) pyrene	mg/kg	2.21	*	47.7	*	2.21
N-Nitroso-di-n-propylamine	mg/kg	1.27	*	19	*	1.27
Naphthalene	mg/kg	3,678	15,407	*	3,678	*
Pentachlorophenol	mg/kg	21.2	56,558	440	3,269	21.2
Pyrene	mg/kg	2,074	38,151	*	2,074	*
PESTICIDES & PCBs						
4,4-DDE	mg/kg	40.8	*	491	*	40.8
Aldrin	mg/kg	0.8	179	7.88	17.8	0.816
Dieldrin	mg/kg	0.9	298	8.39	29.7	0.867
Endrin	mg/kg	17.7	330	*	17.7	*
Endrin aldehyde	mg/kg	0.0	*	*	*	*
Heptachlor	mg/kg	3.1	2,981	29.8	297	3.08
Heptachlor epoxide	mg/kg	1.5	77.5	14.8	7.73	1.52
PCB-1016	mg/kg	2.0	192	34.6	12.2	2.03
PCB-1248	mg/kg	2.0	*	34.6	*	2.03
PCB-1254	mg/kg	2.0	54.9	34.6	3.48	2.03
PCB-1260	mg/kg	2.0	*	34.6	*	2.03
alpha-Chlordane	mg/kg	0.0	*	*	*	*
beta-BHC	mg/kg	7.7	*	74.2	*	7.7
gamma-Chlordane	mg/kg	0.0	*	*	*	*

Table 7-1B Continued

Chemical	Units	Clean-up Goal	EPA Region 9 2008 for COCs w/No FWCUG 10-5 or HI =1	RSL for Chemicals w/No FWCUG 10-5 or HI =1
Volatiles				
Bromoform	mg/kg	610		610
Bromomethane	mg/kg	7.3		7.3
Carbon disulfide	mg/kg	820		820
Carbon tetrachloride	mg/kg	6.1		6.1
Chlorobenzene	mg/kg	290		290
Chloroethane	mg/kg	30	30	
Chloroform	mg/kg	2.9		2.9
Chloromethane	mg/kg	120		120
Cis-1,3-dichloropropene	mg/kg	17		17
Dibromochloromethane	mg/kg	6.8		6.8
Ethyl benzene	mg/kg	54		54
Methylene chloride	mg/kg	110		110
Styrene	mg/kg	6300		6300
Tetrachloroethene	mg/kg	4.8	4.8	
Toluene	mg/kg	5000		5000
Trans-1,3-dichloropropene	mg/kg	17		17
Trichloroethene	mg/kg	0.53	0.53	
Vinyl chloride	mg/kg	0.6		0.6
Xylenes (total)	mg/kg	630		630

Notes:
COC = Chemical of concern
EPA = US Environmental Protection Agency
FWCUG = Facility Wide Clean-up Goal
HI = Hazard index
Mg/kg = Milligrams/kilogram
PCB = Polychlorinated biphenyl
RSL = Regional screening level

Table 7-2 Characterization Sampling Exceedances of CUGs

Approx Date	Group Doing ISM Sampling	Document With ISM Sampling Results	Reason for Sampling/ Sampling Details-Procedures	Load Line	Building Number or Area	Building Characteristic	Sample ID	Sample Date	Sample Depth bgs (ft)	Media	Chemicals Analyzed	CUG Exceedance			
												Chemical	Value (mg/gm)	CUG (mg/kg)	Scenario
7-2011	Prudent	Final Characterization Sampling Report	Attempt to Bound Previously Determined Areas of Subsurface Soil Contamination Collect ISM Samples Over Previous RI Discrete Sample Locations	1	CB-4A	SW Half	LL1SB-640M-0101-SO	7/5/2011	1' - 3'	Subsurface	Explosives	N			
							LL1SB-640M-0102-SO		3' - 5'	Subsurface	Explosives	N			
							LL1SB-640M-0103-SO		5' - 7'	Subsurface	Explosives	N			
					CB-4	SW-NW Side	LL1SB-641M-0101-SO	7/6/2011	1' - 3'	Subsurface	PAHs	N			
						20' Wide	LL1SB-641M-0102-SO		3' - 5'	Subsurface	PAHs	N			
							LL1SB-641M-0103-SO		5' - 7'	Subsurface	PAHs	N			
					CB-4	NE-SE Side	LL1SB-642M-0101-SO	7/6/2011	1' - 3'	Subsurface	PAHs	N			
						20' Wide	LL1SB-642M-0102-SO		3' - 5'	Subsurface	PAHs	N			
							LL1SB-642M-0103-SO		5' - 7'	Subsurface	PAHs	N			
					CB-4A	SW-NW Side	LL1SB-643M-0101-SO	7/5/2011	1' - 3'	Subsurface	PAHs	N			
						20' Wide	LL1SB-643M-0102-SO		3' - 5'	Subsurface	PAHs	N			
							LL1SB-643M-0103-SO		5' - 7'	Subsurface	PAHs	N			
					CB-4A	NE-SE Side	LL1SB-644M-0101-SO	7/5/2011	1' - 3'	Subsurface	Full Suite	N			
						20' Wide	LL1SB-644M-0102-SO		3' - 5'	Subsurface	Full Suite	PCB 1254	14	2.03	Adult
												PCB 1254	14	1.2	Child
							LL1SB-644M-0103-SO		5' - 7'	Subsurface	Full Suite	PCB 1254	1.8	1.2	Child
				2	DB-4	SW-NW Side	LL2SB-512M-0101-SO	7/1/2011	1' - 3'	Subsurface	PAHs	N			
						20' Wide	LL2SB-512M-0102-SO		3' - 5'	Subsurface	PAHs	N			
							LL2SB-512M-0103-SO		5' - 7'	Subsurface	PAHs	N			
					DB-4	NE-SE Side	LL2SS-519M-0001-SO	7/2/2011	0 - 1'	Surface	PAHs, PCBs	B(a)P	0.59	0.221	Adult
						20' Wide									
					DB-4	NE-SE Side	LL2SB-513M-0101-SO	7/1/2011	1' - 3'	Subsurface	PAHs, PCBs	B(a)P	0.88	0.221	Adult
												B(a)P	0.88	0.65	Child
						20' Wide	LL2SB-513M-0102-SO		3' - 5'	Subsurface	PAHs, PCBs	N			
							LL2SB-513M-0103-SO		5' - 7'	Subsurface	PAHs, PCBs	N			
					DB-4A	SW-NW Side	LL2SB-514M-0101-SO	7/1/2011	1' - 3'	Subsurface	PAHs, PCBs	N			
						20' Wide	LL2SB-514M-0102-SO		3' - 5'	Subsurface	PAHs, PCBs	N			
							LL2SB-514M-0103-SO		5' - 7'	Subsurface	PAHs, PCBs	N			
					DB-4A	NE-SE Side	LL2SB-515M-0101-SO	7/1/2011	1' - 3'	Subsurface	PAHs, PCBs	N			
						20' Wide	LL2SB-515M-0102-SO		3' - 5'	Subsurface	PAHs, PCBs	N			
							LL2SB-515M-0103-SO		5' - 7'	Subsurface	PAHs, PCBs	N			
					RI-165		LL2SS-516M-0001-SO	7/3/2011	0 - 1'	Surface	Full Suite	B(a)P	1.6	0.221	Adult
												B(a)P	1.6	0.65	Child
												D(a,h)A	0.24	0.221	Adult

Table 7-2 continued

Approx Date	Group Doing ISM Sampling	Document With ISM Sampling Results	Reason for Sampling/ Sampling Details-Procedures	Load Line	Building Number or Area	Building Characteristic	Sample ID	Sample Date	Sample Depth bgs (ft)	Media	Chemicals Analyzed	CUG Exceedance			
												Chemical	Value (mg/gm)	CUG (mg/kg)	Scenario
7-2011	Prudent	Final Characterization Report	Attempt to Bound Previously Determined Areas of Subsurface Soil Contamination Collect ISM Samples Over Previous RI Discrete Sample Locations	3	EB-4	SW-NW Side	LL3SS-423M-0001-SO	6/30/2011	0 - 1'	Surface	PCBs	N			
						20' Wide									
					EB-4	SW-NW Side	LL3SB-412M-0101-SO	6/30/2011	1' - 3'	Subsurface	PCBs	N			
						20' Wide	LL3SB-412M-0102-SO		3' - 5'	Subsurface	PCBs	N			
					EB-4	NE-SE Side	LL3SS-424M-0001-SO	6/30/2011	0 - 1'	Surface	PCBs	N			
						20' Wide									
					EB-4	NE-SE Side	LL3SB-413M-0101-SO	6/30/2011	1' - 3'	Subsurface	PCBs	PCB 1254	100	2.03	Adult
						20' Wide						PCB 1254	100	1.2	Child
												PCB 1254	100	34.6	NG
							LL3SB-413M-0102-SO		3' - 5'	Subsurface	PCBs	N			
							LL3SB-413M-0103-SO		5' - 7'	Subsurface	PCBs	N			
					EB-10	SW-NW Side	LL3SB-414M-0101-SO	6/29/2011	1' - 3'	Subsurface	As, PCBs, PAHs	B(a)P	0.58	0.221	Adult
						20' Wide	LL3SB-414M-0102-SO		3' - 5'	Subsurface	As, PCBs, PAHs	B(a)A	63	2.21	Adult
												B(a)A	63	6.65	Child
												B(a)A	63	47.7	NG
												B(b)F	54	2.21	Adult
												B(b)F	54	6.65	Child
												B(b)F	54	47.7	NG
												B(k)F	35	22.1	Adult
												B(a)P	47	0.221	Adult
												B(a)P	47	0.65	Child
												B(a)P	47	4.77	NG
												D(a,h)A	7.2	0.221	Adult
												D(a,h)A	7.2	0.65	Child
												D(a,h)A	7.2	4.77	NG
												I(1,2,3)P	21	2.21	Adult
												I(1,2,3)P	21	6.5	Child
							LL3SB-414M-0103-SO		5' - 7'	Subsurface	As, PCBs, PAHs	N			
					EB-10	NE-SE Side	LL3SB-415M-0101-SO	6/29/2011	1' - 3'	Subsurface	As, PCBs	N			
						20' Wide	LL3SB-415M-0102-SO		3' - 5'	Subsurface	As, PCBs	B(a)P	0.4	0.221	Adult
							LL3SB-415M-0103-SO		5' - 7'	Subsurface	As, PCBs	N			
					RI-050	Creek Bed	LL3SD-416M-0001-SD	7/2/2011	0 - 0.5'	Sediment	Full Suite	B(a)P	6.8	0.221	Adult
												B(a)P	6.8	0.65	Child
												D(a,h)	1.2	0.221	Adult
												D(a,h)	1.2	0.65	Child
												B(a)A	8.6	2.21	Adult
												B(a)A	8.6	6.65	Child
												B(a)F	9.1	2.21	Adult
												B(a)F	9.1	6.65	Child

Table 7-2 continued

Approx Date	Group Doing ISM Sampling	Document With ISM Sampling Results	Reason for Sampling/ Sampling Details-Procedures	Load Line	Building Number or Area	Building Characteristic	Sample ID	Sample Date	Sample Depth bgs (ft)	Media	Chemicals Analyzed	CUG Exceedance			
												Chemical	Value (mg/gm)	CUG (mg/kg)	Scenario
												B(b)F	9.1	2.21	Adult
												I(1,2,3)P	4.1	2.21	Adult
				3	RI-016		LL3SO-419M-0001-SO	7/2/2011	0 - 1'	Surface	PAHs	B(a)P	0.40	0.221	Adult
					RI-016		LL3SB-420M-0001-SO	7/2/2011	1' - 2'	Subsurface	PAHs	N			
					RI-028		LL3SO-421M-0001-SO	7/2/2011	0 - 1'	Surface	PAHs	B(a)P	0.26	0.221	Adult
					RI-028		LL3SB-422M-0001-SO	7/2/2011	1' - 2'	Subsurface	PAHs	N			
					G-8	20'- Wide	LL4SB-407M-0101-SO	6/27/2011	1' - 3'	Subsurface	PAHs	B(a)A	3.3	2.21	Adult
												B(b)F	3.1	2.21	Adult
												B(a)P	2.9	0.221	Adult
												B(a)P	2.9	0.65	Child
												D(a,h)A	0.38	0.221	Adult
						Along N Side	LL4SB-407M-0102-SO		3' - 5'	Subsurface	PAHs	B(a)P	0.53	0.221	Adult
							LL4SB-407M-0103-SO		5' - 7'	Subsurface	PAHs	N			
					G-8	20'- Wide	LL4SB-410M-0101-SO	6/27/2011	1' - 3'	Subsurface	PAHs	N			
						Along S Side	LL4SB-410M-0102-SO		3' - 5'	Subsurface	PAHs	N			
							LL4SB-410M-0103-SO		5' - 7'	Subsurface	PAHs	B(a)P	0.57	0.221	Adult
					G-8	NE Half of	LL4SB-411M-0101-SO	6/27/2011	1' - 3'	Subsurface	PAHs	N			
						Building	LL4SB-411M-0102-SO		3' - 5'	Subsurface	PAHs	N			
							LL4SB-411M-0103-SO		5' - 7'	Subsurface	PAHs	N			
					G-8	Half Width	LL4SS-412M-0001-SO	6/26/2011	0 - 1'	Surface	PAHs	N			
						Adg SW End									
					G-8	Half Width	LL4SB-413M-0101-SO	6/28/2011	1' - 3'	Subsurface	PAHs	N			
						Adg SW End	LL4SB-413M-0102-SO		3' - 5'	Subsurface	PAHs	N			
							LL4SB-413M-0103-SO		5' - 7'	Subsurface	PAHs	N			
					G-8	Half Width	LL4SS-414M-0001-SO	6/26/2011	0 - 1'	Surface	PAHs	N			
						Adg SW End									
						LL4SB-412M									
					G-8	Half Width	LL4SB-415M-0101-SO	6/28/2011	1' - 3'	Subsurface	PAHs	N			
						Adg SW End	LL4SB-415M-0102-SO		3' - 5'	Subsurface	PAHs	N			
						LL4SB-412M	LL4SB-415M-0103-SO		5' - 7'	Subsurface	PAHs	N			
					RI-045		LL4SS-416M-0001-SO	6/26/2011	0 - 1'	Surface	Full Suite	N			
					RI-158		LL4SS-419M-0001-SO	6/26/2011	0 - 1'	Surface	PAHs	N			
					RI-034		LL4SS-420M-0001-SO	6/26/2011	0 - 1'	Surface	PAHs	B(a)P	0.38	0.221	Adult
					RI-034		LL4SB-421M-0001-SO	6/26/2011	1' -2'	Subsurface	PAHs	N			
7-2011	Prudent	Final Characterization Sampling Report	Attempt to Bound Previously Determined Areas of Subsurface Soil Contamination Collect ISM Samples Over Previous RI Discrete Sample Locations	4											

Table 7-2 continued

Approx Date	Group Doing ISM Sampling	Document With ISM Sampling Results	Reason for Sampling/ Sampling Details-Procedures	Load Line	Building Number or Area	Building Characteristic	Sample ID	Sample Date	Sample Depth bgs (ft)	Media	Chemicals Analyzed	CUG Exceedance			
												Chemical	Value (mg/gm)	CUG (mg/kg)	Scenario
7-2011	Prudent	Final Characterization Report	Attempt to Bound Previously Determined Areas of Subsurface Soil Contamination Collect ISM Samples Over Previous RI Discrete Sample Locations	12	RI-059		L12SS-300M-0001-SO	7/3/2011	0 - 1'	Surface	Full Suite	B(a)A	5	2.21	Adult
												B(b)F	5.2	2.21	Adult
												B(a)P	4.5	0.221	Adult
												B(a)P	4.5	0.65	Child
												D(a,h)A	0.75	0.221	Adult
												I(1,2,3)P	2.6	2.21	Adult
					RI-060		L12SS-303M-0001-SO	6/26/2011	0 - 1'	Surface	PAHs	B(a)A	9.7	2.21	Adult
												B(a)A	9.7	6.5	Child
												B(b)F	11	2.21	Adult
												B(b)F	11	6.5	Child
												B(a)P	7.7	0.221	Adult
												B(a)P	7.7	0.65	Child
												B(a)P	7.7	4.77	NG
												D(a,h)A	1.4	0.221	Adult
												D(a,h)A	1.4	0.65	Child
												I(1,2,3)P	4	2.21	Adult
					RI-064		L12SS-304M-0001-SO	6/26/2011	0 - 1'	Surface	PAHs	B(a)A	19	2.21	Adult
												B(a)A	19	6.5	Child
												B(b)F	19	2.21	Adult
												B(b)F	19	6.5	Child
												B(a)P	15	0.221	Adult
												B(a)P	15	0.65	Child
												B(a)P	15	4.77	NG
												D(a,h)A	2.6	0.221	Adult
												D(a,h)A	2.6	0.65	Child
												I(1,2,3)P	8.7	2.21	Adult
					RI-099		L12SS-305M-0001-SO	6/26/2011	0 - 1'	Surface	PAHs	B(a)P	0.93	0.221	Adult
												B(a)P	0.93	0.65	Child
												B(b)F	2.4	2.21	Adult
					RI-100		L12SS-306M-0001-SO	6/26/2011	0 - 1'	Surface	PAHs	B(a)P	0.67	0.221	Adult
												B(a)P	0.67	0.65	Child
				Charlestown Quarry			CHASS-001M-0001-SO	6/29/2011	0 - 1'	Surface	Full Suite	N			

Notes:

B(a)A = Benzo(a)anthracene
B(b)F = Benzo(b)fluoranthene
B(k)F = Benzo(k) fluoranthene
B(a)P = Benzo(a)pyrene
D(a,h)A = Dibenz(a,h)anthracene
I(1,2,3)P = Indeno(1,2,3-cd)pyrene
CUG Exceedance
N = Not detected above a CUG

Table 7-3-A Ravenna LL 1 Surface and Subsurface Sampling Results: Metals

				Location	Northeast & southeast sides of Bldg CB-4A, 20 feet wide																			
				Sample ID	LL1SB-644M-0101-SO		LL1SB-645M-0101-SO		LL1SB-646M-0101-SO		% RSD	LL1SB-644M-0102-SO		LL1SB-645M-0102-SO		LL1SB-646M-0102-SO		% RSD	LL1SB-644M-0103-SO		LL1SB-645M-0103-SO		LL1SS-646M-0103-SO		% RSD
				Type Sample	Primary		QC		QA			Primary		QC		QA			Primary		QC		QA		
				Sample Date	7/6/2011		7/6/2011		7/5/2011			7/6/2011		7/6/2011		7/5/2011			7/6/2011		7/6/2011		7/5/2011		
				Sample Depth	1 - 3		1 - 3		1 - 3			3 - 5		3 - 5		3 - 5			5 - 7		5 - 7		5 - 7		
				Min REC or RSL																					
	Analyte	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q		Value	Q	Value	Q	Value	Q		Value	Q	Value	Q	Value	Q	
Metals	Aluminum	mg/kg	34,960	NG	4,300	D	4,300		3,260	B	15.2	6,600	D	6,200	D	7,290	B	8.2	2,000	D	3,400	D	2,370	B	28.0
	Antimony	mg/kg	136	RFA	0.13	R	0.084	J	0.11	J		0.086	J	0.15	R	3			0.15	R	0.14	R	5.3		
	Arsenic (0-1')	mg/kg	19.8	BKG1	5.9	J-	5.8	J-	4		20.4	6.0	J-	5.5	J-	4.2		17.8	3.7	J-	3.5	J-	2.9		12.4
	Barium	mg/kg	3,506	NG	30	J-	39	J-	21.3		29.4	60	J-	71	J-	65.3		8.4	17	J-	23	J-	18.6		15.9
	Beryllium	mg/kg	160	RSL	0.29	J	0.35		0.21		24.8	0.53	J	0.59	D	0.47		11.3	0.15	J	0.45	J	0.14		71.4
	Cadmium	mg/kg	109	NG	0.47	J	3.8	J-	0.0061	U		0.60	J	0.44	J	0.0061	U		0.15	J	0.15	J	0.029	J	63.7
	Calcium	mg/kg	NA	NA	3,900		9,000	J	2,030		72.5	26,000	D	29,000	D	22500	B	12.6	3,200		9,000		5,840	B	48.3
	Chromium (as Cr-3)	mg/kg	196,942	NG	15	J-	29	J-	10.9		51.9	28	J-	27	J-	189		114.6	12	J-	17	J-	313		151.2
	Cobalt	mg/kg	70.3	NG	4.8	J-	5.4		3		28.4	3.7	J-	4.0	J-	3.2		11.1	6.7	J-	2.1	J-	2.4		68.9
	Copper	mg/kg	27,138	RFA	10	J-	22	J-	10.7		47.3	12	J-	12	J-	15.1		13.7	4.0	J-	4.4	J-	8.1		41.1
	Iron	mg/kg	NA	NA	15,000		19,000	J-	12,000		22.9	14,000		13,000		12,900		4.6	9,200		12,000		9,270		15.7
	Lead	mg/kg	4,000	RSL	36	J-	53	D J	16.9		51.2	70	J-	75	J-	51.2		19.2	7.7	J-	6.3	J-	8		12.4
	Magnesium	mg/kg	NA	NA	1,500		1,700		945		28.3	2,700		2,800		2,860		2.9	580		1,800		676		66.6
	Manganese	mg/kg	1,450	BKG1	540	J-	600	D J	498		9.4	670	J-	690	J-	504		16.4	530	J-	310	J-	223		44.7
	Nickel	mg/kg	13,463	RFA	13	J-	20	J-	6.6		50.8	17	J-	17	J-	13.4		13.2	9.4	J-	10	J-	8.1		10.6
	Potassium	mg/kg	NA	NA	580		590		339		28.3	580		690		1,500		54.4	450		460		802		35.1
	Selenium	mg/kg	390	RSL	0.55	J-	0.44	J	1.1		50.8	0.71	J-	0.65	J-	1.4		45.3	0.34	J	0.42	J	0.31	J B	15.9
	Silver	mg/kg	3,240	RFA	0.22	U	0.018	J	0.017	U		0.38	U	0.25	U Q	0.017	U		0.24	U	0.23	U	0.017	U	
	Sodium	mg/kg	NA	NA	31	J	60	J	189		90.1	91		96	J	388		88.7	26	J	66	J	416		126.7
	Thallium	mg/kg	47.6	RFA	0.095	J	0.12	J	0.65		108.7	0.067	J	0.093	J	0.65		122.0	0.11	J	0.066	J	0.28	J	74.4
	Vanadium	mg/kg	1,558	RFA	8.9		8.1		6.6		14.8	8.6		8.8		7.4		9.2	4.8		3.9		3.7		14.2
	Zinc	mg/kg	196,589	RFA	68	J-	100	J-	33.1	B	49.9	130	J-	63	J-	37.7	B	62.0	62	J-	42	J-	17.8		54.5
	Chromium, hexavalent	mg/kg	16.4	NG	0.71	J	0.81	U	2.6	U		0.81	U	0.81	U	2.6	U		0.8	U	0.8	U	2.6	U	
	Mercury	mg/kg	165	RFA	0.032	U	0.021	J	0.012			0.039	J	0.043	J	0.033		13.1	0.021	U	0.026	U	0.0021	U	
							% RSD Average =				41.8							32.4							48.6

See page 7-49 for a list of acronyms and definitions.

Table 7-3-B Ravenna LL 1 Surface and Subsurface Soil Sampling Results: Explosives

				Location	Southwest side of Bldg CB-4A						Northeast & southeast sides of Bldg CB-4A, 20 feet wide																			
				Sample ID	LL1SB-640M-0101-SO		LL1SB-640M-0102-SO		LL1SB-640M-0103-SO		LL1SB-644M-0101-SO		LL1SB-645M-0101-SO		LL1SB-646M-0101-SO		% RSD	LL1SB-644M-0102-SO		LL1SB-645M-0102-SO		LL1SB-646M-0102-SO		% RSD	LL1SB-644M-0103-SO		LL1SB-645M-0103-SO		LL1SS-646M-0103-SO		% RSD
				Type Sample	Primary		Primary		Primary		Primary		QC		QA			Primary		QC		QA			Primary		QC		QA		
				Sample Date	7/6/2011		7/6/2011		7/6/2011		7/6/2011		7/6/2011		7/5/2011			7/6/2011		7/6/2011		7/5/2011			7/6/2011		7/6/2011		7/5/2011		
				Sample Depth	1 - 3		3 - 5		5 - 7		1 - 3		1 - 3		1 - 3			3 - 5		3 - 5		3 - 5			5 - 7		5 - 7		5 - 7		
				Min REC or RSL																											
	Analyte	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q		Value	Q	Value	Q	Value	Q		Value	Q	Value	Q	Value	Q	
Explosives	1,3,5-Trinitrobenzene	mg/kg	15,280	RFA	0.026	J	0.037	J	0.053	J	0.088	J	0.091	J	0.13	U		0.037	J	0.1	U	0.13	U		0.076	J	0.070	J	0.13	U	
	1,3-Dinitrobenzene	mg/kg	59.4	RFA	0.099	U	0.099	U	0.1	U	0.097	U	0.096	U	0.08	U		0.099	U	0.1	U	0.079	U		0.1	U	0.1	U	0.079	U	
	2,4,6-Trinitrotoluene	mg/kg	211	RFA	0.24	J	6.3		15		5.1		5.7		15	P	64.5	0.49		0.19	J	0.089	U		3.1		3.4		2.8		9.7
	2,4-Dinitrotoluene	mg/kg	7.53	RFA	0.099	U	0.099	U	0.1	U	0.097	U	0.028	J	0.08	U		0.099	U	0.1	U	0.079	U		0.1	U	0.1	U	0.079	U	
	2,6,-Dinitrotoluene	mg/kg	7.69	RFA	0.099	U	0.099	U	0.1	U	0.097	U	0.096	U	0.07	U		0.099	U	0.1	U	0.069	U		0.1	U	0.1	U	0.069	U	
	2-Amino-4,6-dinitrotoluene	mg/kg	128	RFA	0.099	U	0.099	U	0.1	U	0.097	U	0.15	J	0.05	U		0.099	U	0.1	U	0.05	U		0.1	U	0.16	J	0.05	U	
	2-Nitrotoluene	mg/kg	60.3	RFA	0.099	U	0.099	U	0.1	U	0.097	U	0.096	U	0.09	U		0.099	U	0.1	U	0.089	U		0.1	U	0.1	U	0.089	U	
	3-Nitrotoluene	mg/kg	6.1	RSL	0.099	U	0.099	U	0.1	U	0.097	U	0.096	U	0.07	U		0.099	U	0.1	U	0.069	U		0.1	U	0.1	U	0.069	U	
	4-Amino-2,6-dinitrotoluene	mg/kg	128	RFA	0.094	J	0.099	U	0.1	U	0.22	J	0.38		0.07	U		0.17	J	0.13	J	0.069	U		0.28		0.49		0.17	J	51.9
	4-Nitrotoluene	mg/kg	816	RFA	0.099	U	0.099	U	0.1	U	0.097	U	0.096	U	0.07	U		0.099	U	0.1	U	0.069	U		0.1	U	0.1	U	0.069	U	
	RDX	mg/kg	1,452	NG	0.34		2.1		0.18	J	0.24		4.7		0.14	U		0.28		0.34		0.14	U		0.33		0.52		1.3		71.7
	Tetryl	mg/kg	240	RSL	0.099	U	0.099	U	0.1	U	0.097	U	0.096	U	0.09	U		0.099	U	0.1	U	0.089	U		0.1		0.1	U	0.089	U	
	Nitrobenzene	mg/kg	48	RFA	0.099	U	0.099	U	0.1	U	0.097	U	0.096	U	0.04	U		0.099	U	0.1	U	0.04	U		0.1	U	0.1	U	0.04	U	
	Nitroglycerin	mg/kg	816	RFA	0.25	U	0.25	U	0.25	U	0.24	U	0.24	U	0.5	U		0.25	U	0.25	U	0.5	U		0.25	U	0.25	U	0.5	U	
	HMX	mg/kg	19,090	RFA	0.62		0.83		0.098	J	0.38		0.72		0.12	U		0.12	J	0.15	J	0.12	U		0.11	J	0.26		0.12	U	
	PETN	mg/kg	NA	NA	0.25	U	0.25	U	0.25	U	0.24	U	0.24	U	0.5			0.25	U	0.25	U	0.5	U		0.25	U	0.25	U	0.5	U	
	NitroguanIdine	mg/kg	6,100	RSL							0.039	U	0.04	U	0.06	U		0.039	U	0.039	U	0.06	U		0.04	U	0.039	U	0.06	U	
	Nitrocellulose	mg/kg	NA	NA							2.1	J	3.5	J	13	U		2.5	J	1.4	J	13	U		2.2	J	5.4	J-	13	U	
													% RSD Average =				64.54														44.43

See page 7-49 for a list of acronyms and definitions.

Table 7-3-C Ravenna LL 1 Surface and Subsurface Soil Sampling Results: Volatile Organics

				Location	Northeast & southeast sides of Bldg CB-4A, 20 feet wide																	
				Sample ID	LL1SB-644V-0101-SO		LL1SB-645V-0101-SO		LL1SB-646V-0101-SO		LL1SB-644V-0102-SO		LL1SB-645V-0102-SO		LL1SB-646V-0102-SO		LL1SB-644V-0103-SO		LL1SB-645V-0103-SO		LL1SS-646V-0103-SO	
				Type Sample	Primary		QC		QA		Primary		QC		QA		Primary		QC		QA	
				Sample Date	7/5/2011		7/5/2011		7/5/2011		7/5/2011		7/5/2011		7/5/2011		7/5/2011		7/5/2011		7/5/2011	
				Sample Depth	1 - 3		1 - 3		1 - 3		3 - 5		3 - 5		3 - 5		5 - 7		5 - 7		5 - 7	
				Min REC or RSL																		
	Analyte	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q
Volatile Organics	1,1,1-Trichloroethane	mg/kg	8,700	RSL	0.0064	U J	0.0059	U J	0.0069	U	0.013	U J	0.011	U J	0.011	U	0.015	U J	0.013	U J	0.0087	U
	1,1,2,2-Tetrachloroethane	mg/kg	5.6	RSL	0.016	U J	0.015	U J	0.0041	U	0.032	U J	0.027	U J	0.0065	U	0.038	U J	0.031	U J	0.0052	U
	1,1,2-Trichloroethane	mg/kg	11	RSL	0.016	U J	0.015	U J	0.0055	U	0.032	U J	0.027	U J	0.0087	U	0.038	U J	0.031	U J	0.007	U
	1,1-Dichloroethane	mg/kg	33	RSL	0.016	U J	0.015	U J	0.0076	U	0.032	U J	0.027	U J	0.012	U	0.038	U J	0.031	U J	0.0096	U
	1,1-Dichloroethene	mg/kg	120	R9	0.016	U J	0.015	U J	0.011	U	0.032	U J	0.027	U J	0.017	U	0.038	U J	0.031	U J	0.014	U
	1,2-Dibromoethane	mg/kg	0.34	RSL	0.016	U J	0.015	U J	0.0069	U	0.032	U J	0.027	U J	0.011	U	0.038	U J	0.031	U J	0.0087	U
	1,2-Dichloroethane	mg/kg	4.3	RSL	0.016	U J	0.015	U J	0.0083	U	0.032	U J	0.027	U J	0.013	U	0.038	U J	0.031	U J	0.01	U
	1,2-Dichloroethene (total)	mg/kg	NA	NA	0.0053	U J	0.0049	U J			0.01	U J	0.0088	U J			0.013	U J	0.01	U J		
	1,2-Dichloropropane	mg/kg	8.8	RSL	0.0064	U J	0.0059	U J	0.0048	U	0.013	U J	0.011	U J	0.0076	U	0.015	U J	0.013	U J	0.0061	U
	2-Butanone	mg/kg	22,000	R9	0.064	U J	0.059	U J	0.069	U	0.13	U J	0.11	U J	0.11	U	0.15	U J	0.13	U J	0.087	U
	2-Hexanone	mg/kg	210	RSL	0.032	U J	0.03	U J	0.047	U	0.063	U J	0.054	U J	0.074	U	0.077	U J	0.063	U J	0.059	U
	4-Methyl-2-pentanone	mg/kg	5,300	R9	0.064	U J	0.059	U J	0.057	U	0.13	U J	0.11	U J	0.089	U	0.15	U J	0.13	U J	0.071	U
	Acetone	mg/kg	61,000	RSL	0.13	U J	0.12	U J	0.044	U	0.25	U J	0.21	U J	0.068	U	0.31	U J	0.25	U J	0.055	U
	Benzene	mg/kg	11	RSL	0.016	U J	0.015	U J	0.0035	U	0.032	U J	0.027	U J	0.0054	U	0.038	U J	0.031	U J	0.0044	U
	Bromochloromethane	mg/kg	8.2	R9	0.016	U J	0.015	U J	0.0055	U	0.032	U J	0.027	U J	0.0087	U	0.038	U J	0.031	U J	0.007	U
	Bromodichloromethane	mg/kg	2.7	RSL	0.016	U J	0.015	U J	0.0062	U	0.032	U J	0.027	U J	0.0097	U	0.038	U J	0.031	U J	0.0078	U
	Bromoform	mg/kg	610	RSL	0.016	U J	0.015	U J	0.0041	U	0.032	U J	0.027	U J	0.0065	U	0.038	U J	0.031	U J	0.0052	U
	Bromomethane	mg/kg	7.3	RSL	0.032	U J	0.03	U J	0.021	U	0.063	U J	0.054	U J	0.032	U	0.077	U J	0.063	U J	0.026	U
	Carbon disulfide	mg/kg	820	RSL	0.016	U J	0.015	U J	0.01	U	0.032	U J	0.027	U J	0.016	U	0.038	U J	0.031	U J	0.013	U
	Carbon tetrachloride	mg/kg	6.1	RSL	0.0064	U J	0.0059	U J	0.0076	U	0.013	U J	0.011	U J	0.012	U	0.015	U J	0.013	U J	0.0096	U
	Chlorobenzene	mg/kg	290	RSL	0.0064	U J	0.0059	U J	0.0055	U	0.013	U J	0.011	U J	0.0087	U	0.015	U J	0.013	U J	0.007	U
	Chloroethane	mg/kg	30	R9	0.064	U J	0.059	U J	0.013	U	0.13	U J	0.11	U J	0.021	U	0.15	U J	0.13	U J	0.017	U
	Chloroform	mg/kg	2.9	RSL	0.016	U J	0.015	U J	0.0062	U	0.032	U J	0.027	U J	0.0097	U	0.038	U J	0.031	U J	0.0078	U
	Chloromethane	mg/kg	120	RSL	0.016	U J	0.015	U J	0.017	U	0.032	U J	0.027	U J	0.027	U	0.038	U J	0.031	U J	0.022	U
	cis-1,2-Dichloroethene	mg/kg	NA	NA	0.0064	U J	0.0059	U J	0.0069	U	0.013	U J	0.011	U J	0.011	U	0.015	U J	0.013	U J	0.0087	U
	cis-1,3-Dichloropropene	mg/kg	17	RSL	0.0064	U J	0.0059	U J	0.0069	U	0.013	U J	0.011	U J	0.011	U	0.015	U J	0.013	U J	0.0087	U
	Dibromochloromethane	mg/kg	6.8	RSL	0.016	U J	0.015	U J	0.0055	U	0.032	U J	0.027	U J	0.0087	U	0.038	U J	0.031	U J	0.007	U
	Ethylbenzene	mg/kg	54	RSL	0.0064	U J	0.0059	U J	0.0055	U	0.013	U J	0.011	U J	0.0087	U	0.015	U J	0.013	U J	0.007	U
	Methylene chloride	mg/kg	110	RSL	0.068	U J	0.074	U J	0.028	U Z	0.16	U J	0.1	U J	0.043	U	0.14	U J	0.13	U J	0.035	U
	Styrene	mg/kg	6,300	RSL	0.0064	U J	0.0059	U J	0.0041	U	0.013	U J	0.011	U J	0.0065	U	0.015	U J	0.013	U J	0.0052	U
	Tetrachloroethene	mg/kg	4.8	R9	0.016	U J	0.015	U J	0.0055	U	0.032	U J	0.027	U J	0.0087	U	0.038	U J	0.031	U J	0.007	U
	Toluene	mg/kg	5,000	RSL	0.016	U J	0.015	U J	0.0052	J	0.032	U J	0.027	U J	0.0076	U	0.038	U J	0.031	U J	0.0061	U
	trans-1,2-Dichloroethene	mg/kg	NA	NA	0.016	U J	0.015	U J	0.0076	U	0.032	U J	0.027	U J	0.012	U	0.038	U J	0.031	U J	0.0096	U
	trans-1,3-Dichloropropene	mg/kg	17	RSL	0.016	U J	0.015	U J	0.0048	U	0.032	U J	0.027	U J	0.0076	U	0.038	U J	0.031	U J	0.0061	U
	Trichloroethene	mg/kg	0.53	R9	0.016	U J	0.015	U J	0.0069	U	0.032	U J	0.027	U J	0.011	U	0.038	U J	0.031	U J	0.0087	U
	Vinyl chloride	mg/kg	0.6	RSL	0.016	U J	0.015	U J	0.0097	U	0.032	U J	0.027	U J	0.015	U	0.038	U J	0.031	U J	0.012	U
	Xylene (Total)	mg/kg	630	RSL	0.019	U J	0.018	U J			0.038	U J	0.032	U J			0.046	U J	0.038	U J		

All results were below RL. No RSDs were calculated.

See page 7-49 for a list of acronyms and definitions.

Table 7-3-D Ravenna LL 1 Surface and Subsurface Soil Sampling Results: Semi-Volatile Organic Compounds

				Location	Southwest & northwest sides of Bldg. CB-4, 20 feet wide						Northeast & southeast sides of Bldg. CB-4, 20 feet wide						Southwest & northwest sides of Bldg CB-4A, 20 feet wide						Northeast & southeast sides of Bldg CB-4A, 20 feet wide																	
				Sample ID	LL1SB-641M-0101-SO		LL1SB-641M-0102-SO		LL1SB-641M-0103-SO		LL1SB-642M-0101-SO		LL1SB-642M-0102-SO		LL1SB-642M-0103-SO		LL1SB-643M-0101-SO		LL1SB-643M-0102-SO		LL1SB-643M-0103-SO		LL1SB-644M-0101-SO		LL1SB-645M-0101-SO		LL1SB-646M-0101-SO		LL1SB-644M-0102-SO		LL1SB-645M-0102-SO		LL1SB-646M-0102-SO		% RSD for 3 - 5 samples	LL1SB-644M-0103-SO		LL1SB-645M-0103-SO		LL1SS-646M-0103-SO	
				Type Sample	Primary		Primary		Primary		Primary		Primary		Primary		Primary		Primary		Primary		Primary		QC		QA		Primary		QC		QA			Primary		QC		QA	
				Sample Date	7/6/2011		7/6/2011		7/6/2011		7/6/2011		7/6/2011		7/6/2011		7/6/2011		7/6/2011		7/6/2011		7/6/2011		7/6/2011		7/5/2011		7/6/2011		7/6/2011		7/5/2011			7/6/2011		7/6/2011		7/5/2011	
				Sample Depth (ft)	1 - 3		3 - 5		5 - 7		1 - 3		3 - 5		5 - 7		1 - 3		3 - 5		5 - 7		1 - 3		1 - 3		1 - 3		3 - 5		3 - 5		3 - 5			5 - 7		5 - 7		5 - 7	
				Min REC or RSL																																					
	Parameter	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q		Value	Q	Value	Q	Value	Q
Semivolatile Organics	1,2- Dichlorobenzene	mg/kg	1900	RSL																			0.027	U J	0.027	U J	0.024	U	0.027	U J	0.027	U J	0.024	U		0.027	U J	0.027	U J	0.021	U
	1,2,4- Trichlorobenzene	mg/kg	220	RSL																			0.027	U J	0.027	U J	0.021	U	0.027	U J	0.027	U J	0.021	U		0.027	U J	0.027	U J	0.024	U
	1,3-Dichlorobenzene	mg/kg	530	R9																			0.027	U J	0.027	U J	0.02	U	0.027	U J	0.027	U J	0.02	U		0.027	U J	0.027	U J	0.02	U
	1,4-Dichlorobenzene	mg/kg	24	RSL																			0.027	U	0.027	U	0.019	U	0.027	U	0.027	U	0.019	U		0.027	U	0.027	U	0.019	U
	2,4- Dichlorophenol	mg/kg	180	RSL																			0.027	U	0.027	U	0.12	U	0.027	U	0.027	U	0.12	U		0.027	U	0.027	U	0.12	U
	2,4- Dimethylphenol	mg/kg	1,200	RSL																			0.08	U	0.081	U	0.1	U	0.081	U	0.081	U	0.1	U		0.08	U	0.08	U	0.1	U
	2,4- Dinitrophenol	mg/kg	120	RSL																			0.08	U	0.081	U	0.27	U	0.081	U	0.081	U	0.27	U		0.08	U	0.08	U	0.27	U
	2,4- Dinitrotoluene	mg/kg	16	RSL																			0.027	U	0.027	U	0.024	U	0.027	U	0.027	U	0.024	U		0.027	U	0.027	U	0.024	U
	2,4,5-Trichlorophenol	mg/kg	6,100	RSL																			0.027	U J	0.027	U J	0.13	U	0.027	U J	0.027	U J	0.13	U		0.027	U J	0.027	U J	0.13	U
	2,4,6- Trichlorophenol	mg/kg	440	RSL																			0.08	U J	0.027	U J	0.13	U	0.081	U J	0.081	U J	0.13	U		0.08	U J	0.08	U J	0.13	U
	2,6- Dinitrotoluene	mg/kg	61	RSL																			0.027	U	0.027	U	0.024	U	0.027	U	0.027	U	0.024	U		0.027	U	0.027	U	0.024	U
	2-Chloronaphthalene	mg/kg	6,300	RSL																			0.0033	U	0.0033	U	0.023	U	0.0034	U	0.0033	U	0.023	U		0.0033	U	0.0033	U	0.023	U
	2-Chlorophenol	mg/kg	390	RSL																			0.027	U	0.027	U	0.34	U	0.027	U	0.027	U	0.35	U		0.027	U	0.027	U	0.34	U
	2-Methylnaphthalene	mg/kg	2,378	RFA																			0.0093		0.0033	U	0.025	U	0.021		0.011		0.027	U		0.0033	U	0.0033	U	0.025	U
	2-Methylphenol	mg/kg	3,100	R9																			0.08	U	0.081	U	0.42	U	0.081	U	0.081	U	0.43	U		0.08	U	0.08	U	0.42	U
	2-Nitroaniline	mg/kg	6,100	RSL																			0.027	U	0.027	U	0.023	U	0.027	U	0.027	U	0.023	U		0.027	U	0.027	U	0.023	U
	2-Nitrophenol	mg/kg	NA	NA																			0.027	U	0.027	U	0.28	U	0.027	U	0.027	U	0.28	U		0.027	U	0.027	U	0.28	U
	3 & 4 Methylphenol	mg/kg	NA	NA																			0.08	U	0.081	U	0.66	U	0.081	U	0.081	U	0.66	U		0.08	U	0.08	U	0.65	U
	3,3'-Dichlorobenzidine	mg/kg	11	RSL																			0.08	U	0.081	U	0.15	U	0.081	U	0.081	U	0.15	U		0.08	U	0.08	U	0.15	U
	3-Nitroaniline	mg/kg	NA	NA																			0.08	U	0.081	U	0.022	U	0.081	U	0.081	U	0.022	U		0.08	U	0.08	U	0.022	U
	4,6-Dinitro-2-methylphenol	mg/kg	NA	NA																			0.08	U	0.081	U	0.27	U	0.081	U	0.081	U	0.27	U		0.08	U	0.08	U	0.27	U
	4-Bromophenyl phenyl ether	mg/kg	NA	NA																			0.027	U	0.027	U	0.025	U	0.027	U	0.027	U	0.025	U		0.027	U	0.027	U	0.025	U
	4-Chloro-3-methylphenol	mg/kg	NA	NA																			0.027	U	0.027	U	0.38	U	0.027	U	0.027	U	0.39	U		0.027	U	0.027	U	0.38	U
	4-Chloroaniline	mg/kg	NA	NA																			0.027	U	0.027	U	0.039	U	0.027	U	0.027	U	0.04	U		0.027	U	0.027	U	0.039	U
	4-Chlorophenyl phenyl ether	mg/kg	NA	NA																			0.027	U	0.027	U	0.026	U	0.027	U	0.027	U	0.026	U		0.027	U	0.027	U	0.026	U
	4-Nitroaniline	mg/kg	240	RSL																			0.027	U	0.027	U	0.03	U	0.027	U	0.027	U	0.031	U		0.027	U	0.027	U	0.03	U
	4-Nitrophenol	mg/kg	4,756	RFA																			0.08	U	0.081	U	0.4	U	0.081	U	0.081	U	0.41	U		0.08	U	0.08	U	0.4	U
	Acenaphthene	mg/kg	3,400	RSL	0.01		0.0033	U	0.0033	U	0.017	U	0.0033	U	0.003	U	0.013	U	0.0033	U	0.033	U	0.0033	U	0.0033	U	0.024	U	0.018		0.018		0.099	J	103.9	0.0033	U	0.0033	U	0.024	U
	Acenaphthylene	mg/kg	NA	NA	0.0086		0.0033	U	0.0033	U	0.017	U	0.0033	U	0.003	U	0.013	U	0.0033	U	0.033	U	0.0033	U	0.0033	U	0.024	U	0.0034	U	0.0033	U	0.024	U		0.0033	U	0.0033	U	0.024	U
	Anthracene	mg/kg	22,000	RSL	0.064		0.0033	U	0.0033	U	0.08	D	0.0033	U	0.011		0.013	R	0.0033	R	0.033	R	0.0033	R	0.0033	R	0.024	U	0.06	J-	0.058	J-	0.29		98.1	0.0033	R	0.0033	R	0.024	U
	Benzo[a]anthracene	mg/kg	2.21	RFA	0.23		0.0033	U	0.019		0.21	D	0.0033	U	0.037		0.032	J-	0.0033	R	0.033	R	0.021	J-	0.019	J-	0.026	J	0.13	J-	0.12	J-	0.31		57.3	0.0033	R	0.0033	R	0.025	U
	Benzo[a]pyrene	mg/kg	0.221	RFA	0.19		0.0033	U	0.019		0.19	D	0.0033	U	0.033		0.029	J-	0.0033	R	0.033	R	0.019	J-	0.019	J-	0.023	U	0.1	J-	0.099	J-	0.25		58.1	0.0071	J-	0.0033	R	0.023	U
	Benzo[b]fluoranthene	mg/kg	2.21	RFA	0.22	M	0.0033	U	0.03	M	0.25	D M	0.0033	U	0.039	M	0.031	J-	0.0033	R	0.033	R	0.028	J-	0.028	J-	0.025	U	0.15	J-	0.13	J-	0.32		52.2	0.01	J-	0.0033	R	0.025	U
	Benzo[g,h,i]perylene	mg/kg	62	R9	0.13		0.0033	U	0.019	M	0.14	D	0.0033	U	0.022	M	0.013	R	0.0033	R	0.033	R	0.019	J-	0.023	J-	0.022	U	0.065	J-	0.062	J-	0.092	J	22.6	0.0033	R	0.0033	R	0.022	U
	Benzo[k]fluoranthene	mg/kg	22.1	RFA	0.16	M	0.0033	U	0.013	M	0.11	D M	0.0033	U	0.027	M	0.013	R	0.0033	R	0.033	R	0.015	J-	0.014	J-	0.025	J	0.06	J-	0.062	J-	0.11	J	36.6	0.0033	R	0.0033	R	0.025	U
	Benzoic acid	mg/kg	240,000	RSL																			0.33	U	0.34	U	0.29	U	0.34	U	0.34	U	0.3	U		0.33	U	0.33	U M	0.29	U
	Benzyl alcohol	mg/kg	6,100	RSL																			0.027	U	0.027	U	0.084	U	0.027	U	0.027	U	0.084	U		0.027	U	0.027	U	0.084	U
	bis (2-Chloroisopropyl) ether	mg/kg	29	RSL																			0.027	U	0.027	U	0.03	U	0.027	U	0.027	U	0.031	U		0.027	U	0.027	U	0.03	U
	Bis(2-chloroethoxy)methane	mg/kg	1,783	RFA																			0.027	U	0.027	U	0.023	U	0.027	U	0.027	U	0.023	U		0.027	U	0.027	U	0.023	U
	Bis(2-chloroethyl)ether	mg/kg	2	RSL																			0.0033	U	0.0033	U	0.025	U	0.0034	U	0.0033	U	0.025	U		0.0033	U	0.0033	U	0.25	U
	Bis(2-ethylhexyl) phthalate	mg/kg	35	RSL																			0.27		0.16		0.12	J	0.38		0.17		0.093	J	69.3	0.39		0.24		0.1	J
	Butyl benzyl phthalate	mg/kg	2,600	RSL																			0.027	U	0.027	U	0.074	U	0.027	U	0.027	U	0.074	U		0.027	U	0.027	U	0.073	U
	Carbazole	mg/kg	694	RFA																			0.027	U	0.027	U	0.028	U	0.027	U	0.027	U	0.17			0.027	U	0.027	U	0.028	U
	Chrysene	mg/kg	221	RFA	0.2		0.0033	U	0.021		0.23	D	0.0033	U	0.037		0.032	J-	0.0033	R	0.033	R	0.021	J-	0.024	J-	0.025	U	0.12	J-	0.12	J-	0.31		59.8	0.0033	R	0.0033	R	0.025	U
	Dibenz(a,h)anthracene	mg/kg	0.221	RFA	0.03		0.0033	U	0.0033	U	0.017	U	0.0033	U	0.003	U	0.013	U	0.0033	U	0.033	U	0.0033	U	0.0033	U	0.022	U	0.018		0.014		0.022	U		0.0033	U	0.0033	U	0.022	U
	Dibenzofuran	mg/kg	1,189	RFA																			0.0033	U	0.0033	U	0.024	U	0.0034	U	0.016	J	0.073	J		0.0033	U	0.0033	U	0.024	U
	Diethyl phthalate	mg/kg	49,000	RSL																			0.027	U	0.027	U	0.065	U	0.033	J	0.026	J	0.065	U		0.025	J	0.03	J	0.064	U
	Dimethyl phthalate	mg/kg	610,000	R9																			0.027	U	0.027	U	0.064	U	0.027	U	0.027	U	0.064	U		0.027	U	0.027	U	0.063	U
	Di-n-butyl phthalate	mg/kg	6,100	RSL																			0.037	J	0.035	J	0.08	U	0.027	J	0.023	J	0.11	J	92.1	0.019	J	0.024	J	0.079	U
	Di-n-octyl phthalate	mg/kg	2,400	R9																			0.027	U	0.027	U	0.06	U	0.027	U	0.027	U	0.06	U		0.027	U	0.027	U	0.059	U
	Fluoranthene	mg/kg	2,756	RFA	0.51		0.0033	U	0.041		0.51	D	0.0072		0.086		0.07	J-	0.011	J-	0.1	J-	0.041	J-	0.047	J-	0.044	J	0.34	J-	0.3	J-	0.89		64.6	0.018	J-	0.01	J-	0.026	U
	Fluorene	mg/kg	7,366	RFA	0.012		0.0033	U	0.0033	U	0.037	D	0.0033	U	0.003	U	0.013	U J	0.0033	U J	0.033	U J	0.0033	U J	0.0033	U J	0.025	U	0.023	J-	0.023	J-	0.13		105.3	0.0033	U J	0.0033	U J	0.025	U
	Hexachlorobenzene	mg/kg	3	RSL																			0.0033	U	0.0033	U	0.028	U	0.0034	U	0.0033	U	0.028	U		0.0033	U	0.0033	U	0.028	U
	Hexachlorobutadiene	mg/kg	62	RSL																			0.027	U J	0.027	U J	0.063	U	0.027	U J	0.027	U J	0.063	U		0.027	U J	0.027	U J	0.062	U
	Hexachlorocyclopentadiene	mg/kg	370	R9																			0.027	U J	0.027	U J	0.052	U	0.027	U J	0.027	U J	0.053	U		0.027	U J	0.027	U J	0.052	U
	Hexachloroethane	mg/kg	350	RSL																			0.027	U	0.027	U	0.033	U	0.027	U	0.027	U	0.034	U		0.027	U	0.027	U	0.033	U
	Indeno[1,2,3-cd]pyrene	mg/kg	2.21	RFA	0.11		0.0033	U	0.017	M	0.12	D	0.0033	U	0.021		0.013	U J	0.0033	U J	0.033	U J	0.014	J-	0.013	J-	0.023	U	0.059	J-	0.058	J-	0.13		50.1	0.0033	U J	0.0033	U J	0.023	U
	Isophorone	mg/kg	5,100	RSL																			0.027	U	0.055		0.05	U	0.027	U	0.027	U	0.051	U		0.015	J	0.027	U	0.05	U
	Naphthalene	mg/kg	3,678	RFA	0.013		0.0033	U	0.0033	U	0.017	U	0.0033	U	0.003	U	0.013	U	0.0033	U	0.033	U	0.0033	U	0.0033	U	0.021	U	0.012		0.0068		0.029	J	72.9	0.0033	U	0.0033	U	0.021	U
	Nitrobenzene	mg/kg	48	RSL																			0.0033	U	0.0033	U	0.06	U	0.0034	U	0.0033	U	0.06	U		0.0033	U	0.0033	U	0.059	U
	N-Nitrosodi-n-propylamine	mg/kg	1	RFA																			0.027	U	0.027	U	0.071	U	0.027	U	0.027	U	0.071	U		0.027	U	0.027	U	0.07	U
	N-Nitrosodiphenylamine	mg/kg	990	R9																			0.027	U	0.027	U	0.05	U	0.027	U	0.027	U	0.051	U		0.027	U	0.027	U	0.05	U
	Pentachlorophenol	mg/kg	21	RFA																			0.08	U	0.081	U	0.24	U	0.081	U	0.081	U	0.24	U		0.08	U	0.08	U	0.24	U
	Phenanthrene	mg/kg	2,300	R9	0.22		0.0033	U	0.024		0.34	D	0.013		0.048		0.058	J-	0.012	J-	0.11	J-	0.025	J-	0.027	J-	0.026	U	0.23	J-	0.21	J-	0.97		92.2	0.016	J-	0.0067	J-	0.026	U
	Phenol	mg/kg	18,000	RSL																			0.027	U	0.027	U	0.16	U	0.031	J	0.027	U	0.16	U		0.027	U	0.027	U	0.16	U
	Pyrene	mg/kg	2,074	RFA	0.37		0.0033	U	0.033		0.38	D	0.0033	U	0.061		0.059	J-	0.014	J-	0.083	J-	0.034	J-	0.035	J-	0.037	J	0.27	J-	0.23	J-	0.73		67.8	0.013	J-	0.0091	J-	0.026	U
																													% RSD Average =				64.9					

See page 7-49 for a list of acronyms and definitions.

Table 7-3-E-1 Ravenna LL 1 Surface and Subsurface Soil Sampling Results: Pesticides and PCBs (1ST Data Set)

				Location	Northeast & southeast sides of Bldg CB-4A, 20 feet wide																			
				Sample ID	LL1SB-644M-0101-SO		LL1SB-645M-0101-SO		LL1SB-646M-0101-SO		% RSD	LL1SB-644M-0102-SO		LL1SB-645M-0102-SO		LL1SB-646M-0102-SO		% RSD	LL1SB-644M-0103-SO		LL1SB-645M-0103-SO		LL1SS-646M-0103-SO		% RSD
				Type Sample	Primary		QC		QA			Primary		QC		QA			Primary		QC		QA		
				Sample Date	7/6/2011		7/6/2011		7/5/2011			7/6/2011		7/6/2011		7/5/2011			7/6/2011		7/6/2011		7/5/2011		
				Sample Depth	1 - 3		1 - 3		1 - 3			3 - 5		3 - 5		3 - 5			5 - 7		5 - 7		5 - 7		
				Min REC or RSL																					
Parameter		Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q		Value	Q	Value	Q	Value	Q		Value	Q	Value	Q	Value	Q	
Pesticides and PCBs	4,4'-DDD	mg/kg	20	RSL	0.0034	U	0.0034	U	0.006	U		0.014	U	0.014	U	0.0061	U		0.0034	U	0.013	U	0.003	U	
	4,4'-DDE	mg/kg	40.8	RFA	0.087	D	0.11	D	0.19	P	41.9	0.19	D	0.21	D	0.49		56.5	0.065	D	0.67	D J	0.055	P	133.8
	4,4'-DDT	mg/kg	17	RSL	0.0034	U	0.0034	U	0.01	U		0.014	U	0.014	U	0.01	U		0.0034	U	0.02	D J	0.005	U	
	Aldrin	mg/kg	0.8	RFA	0.0067	U	0.0067	U	0.01	U		0.027	U	0.027	U	0.01	U		0.0067	U	0.027	U	0.006	J	
	alpha-BHC	mg/kg	0.9	R9	0.0067	U Q	0.0067	U Q	0.012	U		0.027	U Q	0.027	U Q	0.012	U		0.0067	U Q	0.027	U Q J	0.006	U	
	alpha-Chlordane	mg/kg	NA	NA	0.0067	U	0.0067	U	0.006	U		0.027	U Q	0.027	U	0.0061	U		0.0067	U	0.027	U	0.003	U	
	beta-BHC	mg/kg	7.7	NA	0.0067	U Q	0.0067	U Q	0.012	U		0.027	U Q	0.027	U Q	0.012	U		0.0067	U J Q	0.028	D J Q	0.006	U	
	Chlordane (Technical)	mg/kg	NA	NA					0.08	U						0.081	U						0.04	U	
	delta-BHC	mg/kg	NA	NA	0.0067	U Q	0.0067	U	0.006	U		0.027	U Q	0.027	U	0.0061	U		0.0067	U	0.027	U	0.003	U	
	Dieldrin	mg/kg	0.9	RFA	0.0034	U	0.0034	U	0.022	J		0.014	U	0.014	U	0.25	P		0.0034	U	0.013	U J	0.0089	J	
	Endosulfan I	mg/kg	370	R9	0.0034	U	0.0034	U	0.014	U		0.011	J D	0.013	J D	0.014	U		0.0034	U	0.013	U M J	0.007	U	
	Endosulfan II	mg/kg	370	R9	0.0067	U	0.0067	U	0.006	U		0.027	U	0.027	U	0.0061	U		0.0067	U	0.027	U	0.003	U	
	Endosulfan sulfate	mg/kg	370	R9	0.0067	U	0.0078	U	0.018	U		0.027	U	0.027	U	0.018	U		0.0067	U	0.027	U	0.0089	U	
	Endrin	mg/kg	17.7	RFA	0.0034	U	0.0034	U	0.008	U		0.014	U	0.016	J D	0.0081	U		0.0077	J D	0.036	D J	0.004	U	
	Endrin aldehyde	mg/kg	NA	NA	0.019	D	0.034	D	0.022	U		0.36	D	0.42	D	0.27	P	21.6	0.04	D	0.027	U M	0.011	U	
	Endrin ketone	mg/kg	18	R9	0.0034	U	0.0034	U	0.016	U		0.014	U	0.014	U	0.016	U		0.0034	U	0.013	U M J	0.0079	U	
	gamma-BHC	mg/kg	NA	NA	0.0067	U Q	0.0067	U Q				0.027	U Q	0.027	U Q				0.0067	U Q	0.027	U Q			
	gamma-Chlordane	mg/kg	16	R9	0.0034	J D	0.0034	U M Q	0.016	J		0.58	D Q	0.65	D Q	0.0061	U		0.3	D Q	0.013	U M Q J	0.012	J	
	Heptachlor	mg/kg	3.1	RFA	0.0067	U	0.0067	U	0.008	U		0.027	U	0.027	U	0.0081	U		0.0067	U	0.027	U	0.004	U	
	Heptachlor epoxide	mg/kg	1.5	RFA	0.0067	U	0.0067	U M	0.012	J		0.027	U	0.027	U	0.059	P		0.0067	U	0.027	U	0.005	U	
	Lindane	mg/kg	NA	NA					0.01	U						0.01	U						0.005	U	
	Methoxychlor	mg/kg	310	RSL	0.017	U M	0.017	U	0.014	U		0.067	U	0.067	U	0.42	P		0.012	J D	0.066	U	0.007	U	
	Toxaphene	mg/kg	4.4	R9	0.1	U M	0.1	U M	0.1	U		0.41	U M	0.41	U M	0.1	U		0.1	U M	0.4	U	0.05	U	
	Aroclor 1016	mg/kg	2	RFA	0.12	U	0.13	U	0.01	U		1.3	U	2.5	U	0.01	U		0.25	U	0.025	U	0.0099	U	
	Aroclor 1221	mg/kg	1.4	RSL	0.12	U	0.13	U	0.02	U		1.3	U	2.5	U	0.02	U		0.25	U	0.025	U	0.02	U	
	Aroclor 1232	mg/kg	1.4	RSL	0.12	U	0.13	U	0.027	U		1.3	U	2.5	U	0.027	U		0.25	U	0.025	U	0.027	U	
	Aroclor 1242	mg/kg	2.2	RSL	0.12	U	0.13	U	0.029	U		1.3	U	2.5	U	0.029	U		0.25	U	0.025	U	0.029	U	
	Aroclor 1248	mg/kg	2	RFA	0.12	U	0.13	U	0.029	U		1.3	U	2.5	U	0.029	U		0.25	U	0.025	U	0.029	U	
	Aroclor 1254	mg/kg	2	RFA	0.79	D	1.4	D	0.44		55.4	14	D	18	D	14		15.1	1.8	D	0.28		0.23		115.9
	Aroclor 1260	mg/kg	2	RFA	0.12	U	0.13	U	0.012	U		1.3	U	2.5	U	0.012	U		0.25	U	0.025	U	0.012	U	
							% RSD Average =				48.66							23.29							124.82

See page 7-49 for a list of acronyms and definitions.

NT= Not Tested

Table 7-3-E-2 Ravenna LL 1 Surface and Subsurface Soil Sampling Results: Pesticides and PCBs (2nd Data Set)

				Location	Northeast & southeast sides of Bldg CB-4A, 20 feet wide											
				Sample ID	LL1SB-644M-0101-SO		LL1SB-645M-0101-SO		LL1SB-644M-0102-SO		LL1SB-645M-0102-SO		LL1SB-644M-0103-SO		LL1SB-645M-0103-SO	
				Type Sample	Primary		QC		Primary		QC		Primary		QC	
				Sample Date	7/6/2011		7/6/2011		7/6/2011		7/6/2011		7/6/2011		7/6/2011	
				Sample Depth	1 - 3		1 - 3		3 - 5		3 - 5		5 - 7		5 - 7	
				Min REC or RSL												
	Parameter		Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q
Pesticides and PCBs	4,4'-DDD		mg/kg	20	RSL	0.0034	R	0.0034	R	0.014	R	0.014	R	0.0034	U	0.013	R
	4,4'-DDE		mg/kg	40.8	RFA	0.087	J	0.11	J	0.19	J	0.21	J	0.065	J-	0.67	J
	4,4'-DDT		mg/kg	17	RSL	0.0034	R	0.0034	R	0.014	R	0.014	R	0.0034	U J	0.02	J
	Aldrin		mg/kg	0.8	RFA	0.0067	R	0.0067	R	0.027	R	0.027	R	0.0067	U J	0.027	R
	alpha-BHC		mg/kg	0.9	R9	0.0067	R	0.0067	R	0.027	R	0.027	R	0.0067	U J	0.027	R
	alpha-Chlordane		mg/kg	NA	NA	0.0067	R	0.0067	R	0.027	R	0.027	R	0.0067	R	0.027	R
	beta-BHC		mg/kg	7.7	NA	0.0067	R	0.0067	R	0.027	R	0.027	R	0.0067	U J Q	0.028	J
	Chlordane (Technical)			NA	NA												
	delta-BHC		mg/kg	NA	NA	0.0067	R	0.0067	R	0.027	R	0.027	R	0.0067	R	0.027	R
	Dieldrin		mg/kg	0.9	RFA	0.0034	R	0.0034	R	0.014	R	0.014	R	0.0034	R	0.013	R
	Endosulfan I		mg/kg	370	R9	0.0034	R	0.0034	R	0.011	J	0.013	J	0.0034	U J	0.013	R
	Endosulfan II		mg/kg	370	R9	0.0067	R	0.0067	R	0.027	R	0.027	R	0.0067	R	0.027	R
	Endosulfan sulfate		mg/kg	370	R9	0.0067	R	0.0078	R	0.027	R	0.027	R	0.0067	R	0.027	R
	Endrin		mg/kg	17.7	RFA	0.0034	R	0.0034	R	0.014	R	0.016	J	0.0077	J	0.036	J
	Endrin aldehyde		mg/kg	NA	NA	0.019	J	0.034	J	0.36	J	0.42	J	0.04	J-	0.027	R
	Endrin ketone		mg/kg	18	R9	0.0034	R	0.0034	R	0.014	R	0.014	R	0.0034	U	0.013	R
	gamma-BHC		mg/kg	NA	NA	0.0067	R	0.0067	R	0.027	R	0.027	R	0.0067	R	0.027	R
	gamma-Chlordane		mg/kg	16	R9	0.0034	J	0.0034	R	0.58	J+	0.65	J+	0.3	J+	0.013	R
	Heptachlor		mg/kg	3.1	RFA	0.0067	R	0.0067	R	0.027	R	0.027	R	0.0067	U J	0.027	R
	Heptachlor epoxide		mg/kg	1.5	RFA	0.0067	R	0.0067	R	0.027	R	0.027	R	0.0067	R	0.027	R
	Methoxychlor		mg/kg	310	RSL	0.017	R	0.017	R	0.067	R	0.067	R	0.012	J	0.066	R
	Toxaphene		mg/kg	4.4	R9	0.1	R	0.1	R	0.41	R	0.41	R	0.1	U M	0.4	R

See page 7-49 for a list of acronyms and definitions.

NT= Not Tested

Table 7-4-A Ravenna LL 2 Surface and Subsurface Soil Sampling Results: Metals

				Location	RI Discrete Sample Location 165						
				Sample ID	LL2SS-516M-0001-SO		LL2SS-517M-0001-SO		LL2SS-518M-0001-SO		% RSD
				Type Sample	Primary		QC		QA		
				Sample Date	7/3/2011		7/3/2011		7/3/2011		
				Sample Depth	0 - 0.5		0 - 0.5		0 - 0.5		
				Min REC or RSL							
	Analyte	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q	
Metals	Aluminum	mg/kg	34,960	NG	8100	J+	11000	U	9770	B	15.1
	Antimony	mg/kg	136	RFA	0.15	J	0.14	U J	0.35	J	55.5
	Arsenic (0-1')	mg/kg	19.8	BKG1	10	J-	9.2	U J	9.9		4.5
	Barium	mg/kg	3,506	NG	79	J-	88	U J	76.4		7.5
	Beryllium	mg/kg	160	RSL	0.86	D	1.0	U	0.77		13.2
	Cadmium	mg/kg	109	NG	0.27	J	0.17	U	0.088	M	51.8
	Calcium	mg/kg	NA	NA	17000	J+	23000	U	16600	B	19.0
	Chromium (as Cr-3)	mg/kg	196,942	NG	27	J-	32	U J	17.7	M	28.4
	Cobalt	mg/kg	70.3	NG	8.3	J-	9.2	U J	7.5	M	10.2
	Copper	mg/kg	27,138	RFA	19	J-	18	U J	22.6		12.2
	Iron	mg/kg	NA	NA	20000	J+	20000	U	21600	M	4.5
	Lead	mg/kg	4,000	RSL	35	J-	33	U J	42.6	M	13.7
	Magnesium	mg/kg	NA	NA	4100		4500	U	4260	M	4.7
	Manganese	mg/kg	1,450	BKG1	670	J-	870	U J	613	M	18.8
	Nickel	mg/kg	13,463	RFA	26	J-	29	U J	21.2	M	15.5
	Potassium	mg/kg	NA	NA	1100		1200	U	854		16.9
	Selenium	mg/kg	390	RSL	1.2	J-	1.1	U J	0.91		13.8
	Silver	mg/kg	3,240	RFA	0.24	U	0.46	U	0.017	U M Y	
	Sodium	mg/kg	NA	NA	160		170	U	482	M	67.6
	Thallium	mg/kg	47.6	RFA	0.17	J	0.15	U J	0.73	M	94.1
	Vanadium	mg/kg	1,558	RFA	15		14	U	12.1	M	10.8
	Zinc	mg/kg	196,589	RFA	88	J-	62	U J	54.6	M B	25.7
	Chromium, hexavalent	mg/kg	16.4	NG	0.45	J	0.82	U	2.7	U M	
	Mercury	mg/kg	165	RFA	0.023	J	0.022	U	0.014		25.1
								% RSD Average =			24.0

See page 7-49 for a list of acronyms and definitions.

Table 7-4-B Ravenna LL 2 Surface and Subsurface Soil Sampling Results: Explosives

			Location	RI Discrete Sample Location					
			Sample ID	LL2SS-516M-0001-SO		LL2SS-517M-0001-SO		LL2SS-518M-0001-SO	
			Type Sample	Primary		QC		QA	
			Sample Date	7/6/2011		7/6/2011		7/3/2011	
			Sample Depth	0 - 0.5		0 - 0.5		0 - 0.5	
			Min REC or RSL						
	Analyte	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q
Explosives	1,3,5-Trinitrobenzene	mg/kg	15,280	RFA	0.10	U	0.1	U	0.13	U
	1,3-Dinitrobenzene	mg/kg	59.4	RFA	0.10	U	0.1	U	0.08	U
	2,4,6-Trinitrotoluene	mg/kg	211	RFA	0.10	U	0.048	J	0.09	U
	2,4-Dinitrotoluene	mg/kg	7.53	RFA	0.10	U	0.1	U	0.08	U
	2,6-Dinitrotoluene	mg/kg	7.69	RFA	0.10	U	0.1	U	0.07	U
	2-Amino-4,6-dinitrotoluene	mg/kg	128	RFA	0.10	U	0.1	U	0.05	U Y
	2-Nitrotoluene	mg/kg	60.3	RFA	0.10	U	0.1	U	0.09	U
	3-Nitrotoluene	mg/kg	6.1	RSL	0.10	U	0.1	U	0.07	U
	4-Amino-2,6-dinitrotoluene	mg/kg	128	RFA	0.10	U	0.1	U	0.07	U Y
	4-Nitrotoluene	mg/kg	816	RFA	0.10	U	0.1	U	0.07	U
	HMX	mg/kg	19,090	RFA	0.10	U	0.1	U	0.12	U
	Nitrobenzene	mg/kg	48	RFA	0.10	U	0.1	U	0.04	U
	Nitroglycerin	mg/kg	816	RFA	0.25	U	0.25	U	0.5	U
	PETN	mg/kg	NA	NA	0.25	U	0.25	U	0.5	U
	RDX	mg/kg	1,452	NG	0.10	U	0.1	U	0.14	U
	Tetryl	mg/kg	240	RSL	0.10	U	0.1	U	0.09	U
	Nitroguanadine	mg/kg	6,100	RSL	0.039	U	0.04	U	0.06	U
	Nitrocellulose	mg/kg	NA	NA	0.85	J	0.94	U J	13	U M

All results were below the RL. No RSDs were calculated.

See page 7-49 for a list of acronyms and definitions.

Table 7-4-C Ravenna LL 2 Surface and Subsurface Soil Sampling Results: Volatile Organic Compounds

			Location	RI Discrete Sample Location					
			Sample ID	LL2SS-516M-0001-SO		LL2SS-517M-0001-SO		LL2SS-518M-0001-SO	
			Type Sample	Primary		QC		QA	
			Sample Date	7/3/2011		7/3/2011		7/3/2011	
			Sample Depth	0 - 0.5		0 - 0.5		0 - 0.5	
			Min REC or RSL						
	Analyte	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q
Volatile Organics	1,1,1-Trichloroethane	mg/kg	8700	RSL	0.0092	U J	0.0083	U J	0.0095	U
	1,1,2,2-Tetrachloroethane	mg/kg	5.6	RSL	0.023	U J	0.021	U J	0.0057	U
	1,1,2-Trichloroethane	mg/kg	11	RSL	0.023	U J	0.021	U J	0.0076	U
	1,1-Dichloroethane	mg/kg	33	RSL	0.023	U J	0.021	U J	0.01	U
	1,1-Dichloroethene	mg/kg	120	R9	0.023	U J	0.021	U J	0.015	U
	1,2-Dibromoethane	mg/kg	0.34	RSL	0.023	U J	0.021	U J	0.0095	U
	1,2-Dichloroethane	mg/kg	4.3	RSL	0.023	U J	0.021	U J	0.011	U
	1,2-Dichloroethene (total)	mg/kg	NA	NA	0.0075	U J	0.0068	U J		
	1,2-Dichloropropane	mg/kg	8.8	RSL	0.0092	U J	0.0083	U J	0.0067	U
	2-Butanone	mg/kg	22,000	R9	0.092	U J	0.083	U J	0.095	U
	2-Hexanone	mg/kg	210	RSL	0.046	U J	0.042	U J	0.065	U
	4-Methyl-2-pentanone	mg/kg	5,300	R9	0.092	U J	0.083	U J	0.078	U
	Acetone	mg/kg	61,000	RSL	0.18	U J	0.17	U J	0.06	U
	Benzene	mg/kg	11	RSL	0.023	U J	0.021	U J	0.0048	U
	Bromochloromethane	mg/kg	8.2	R9	0.023	U J	0.021	U J	0.0076	U
	Bromodichloromethane	mg/kg	2.7	RSL	0.023	U J	0.021	U J	0.0086	U
	Bromoform	mg/kg	610	RSL	0.023	U J	0.021	U J	0.0057	U
	Bromomethane	mg/kg	7.3	RSL	0.046	U J	0.042	U J	0.029	U Y
	Carbon disulfide	mg/kg	820	RSL	0.023	U J	0.021	U J	0.014	U
	Carbon tetrachloride	mg/kg	6.1	RSL	0.0092	U J	0.0083	U J	0.01	U
	Chlorobenzene	mg/kg	290	RSL	0.0092	U J	0.0083	U J	0.0076	U
	Chloroethane	mg/kg	30	R9	0.092	U J	0.083	U J	0.18	U
	Chloroform	mg/kg	2.9	RSL	0.023	U J	0.021	U J	0.0086	U
	Chloromethane	mg/kg	120	RSL	0.023	U J	0.021	U J	0.024	U
	cis-1,2-Dichloroethene	mg/kg	NA	NA	0.0092	U J	0.0083	U J	0.0095	U
	cis-1,3-Dichloropropene	mg/kg	17	RSL	0.0092	U J	0.0083	U J	0.0095	U
	Dibromochloromethane	mg/kg	6.8	RSL	0.023	U J	0.021	U J	0.0076	U
	Ethylbenzene	mg/kg	54	RSL	0.0092	U J	0.0083	U J	0.0076	U
	Methylene chloride	mg/kg	110	RSL	0.2	U J	0.13	U J	0.038	U Z
	Styrene	mg/kg	6,300	RSL	0.0092	U J	0.0083	U J	0.0057	U
	Tetrachloroethene	mg/kg	4.8	R9	0.023	U J	0.021	U J	0.0076	U
	Toluene	mg/kg	5,000	RSL	0.023	U J	0.021	U J	0.0074	J
	trans-1,2-Dichloroethene	mg/kg	NA	NA	0.023	U J	0.021	U J	0.01	U
	trans-1,3-Dichloropropene	mg/kg	17	RSL	0.023	U J	0.021	U J	0.0067	U
	Trichloroethene	mg/kg	0.53	R9	0.023	U J	0.021	U J	0.0095	U
	Vinyl chloride	mg/kg	0.6	RSL	0.023	U J	0.021	U J	0.013	U
	Xylene (Total)	mg/kg	630	RSL	0.027	U J	0.025	U J		

All results were below the RL. No RSDs were calculated.

See page 7-49 for a list of acronyms and definitions.

Table 7-4-D Ravenna LL 2 Surface and Subsurface Soil Sampling Results: Semi-Volatile Organic Compounds

				Location	Southwest & northwest sides of Bldg. DB-4, 20 feet wide						Northeast side & southeast sides of Bldg. DB-4, 20 feet wide								Southwest & northwest sides of Bldg. DB-4A, 20 feet wide						Northeast & southeast side of Bldg. DB-4A, 20 feet wide						RI Discrete Sample Location						% RSD
				Sample ID	LL2SB-512M-0101-SO		LL2SB-512M-0102-SO		LL2SB-512M-0103-SO		LL2SS-519M-0001-SO		LL2SB-513M-0101-SO		LL2SB-513M-0102-SO		LL2SB-513M-0103-SO		LL2SB-514M-0101-SO		LL2SB-514M-0102-SO		LL2SB-514M-0103-SO		LL2SB-515M-0101-SO		LL2SB-515M-0102-SO		LL2SB-515M-0103-SO		LL2SS-516M-0001-SO		LL2SS-517M-0001-SO		LL2SS-518M-0001-SO		
				Type Sample	Primary		Primary		Primary		Primary		Primary		Primary		Primary		Primary		Primary		Primary		Primary		Primary		Primary		Primary	QC		QA		
				Sample Date	7/6/2011		7/6/2011		7/6/2011		7/6/2011		7/1/2011		7/1/2011		7/1/2011		7/1/2011		7/1/2011		7/1/2011		7/1/2011		7/1/2011		7/1/2011		7/6/2011	7/6/2011		7/3/2011		
				Sample Depth (ft)	1 - 3		3 - 5		5 - 7		0 - 1		1 - 3		3 - 5		5 - 7		1 - 3		3 - 5		5 - 7		1 - 3		3 - 5		5 - 7		0 - 0.5	0 - 0.5		0 - 0.5		
				Min REC or RSL																																
	Parameter	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	
Semivolatile Organics	1,2- Dichlorobenzene	mg/Kg	1900	RSL																											0.11	U	0.11	U J	0.025	U	
	1,2,4- Trichlorobenzene	mg/Kg	220	RSL																											0.11	U	0.11	U J	0.022	U	
	1,3-Dichlorobenzene	mg/Kg	530	R9																											0.11	U J	0.11	U J	0.021	U	
	1,4-Dichlorobenzene	mg/Kg	24	RSL																											0.11	U	0.11	U	0.02	U	
	2,4- Dichlorophenol	mg/Kg	180	RSL																											0.11	U	0.11	U	0.12	U	
	2,4- Dimethylphenol	mg/Kg	1,200	RSL																											0.33	U	0.33	U	0.1	U	
	2,4- Dinitrophenol	mg/Kg	120	RSL																											0.33	R	0.33	U	0.28	U	
	2,4- Dinitrotoluene	mg/Kg	16	RSL																											0.11	U	0.11	U	0.025	U	
	2,4,5-Trichlorophenol	mg/Kg	6,100	RSL																											0.11	U	0.11	U J	0.13	U	
	2,4,6- Trichlorophenol	mg/Kg	440	RSL																											0.33	R	0.33	U J	0.13	U	
	2,6- Dinitrotoluene	mg/Kg	61	RSL																											0.11	U	0.11	U	0.025	U	
	2-Chloronaphthalene	mg/Kg	6,300	RSL																											0.013	U	0.013	U	0.024	U	
	2-Chlorophenol	mg/Kg	390	RSL																											0.11	U	0.11	U	0.35	U	
	2-Methylnaphthalene	mg/Kg	2,378	RFA																											0.045		0.074	U	0.035	J	39.5
	2-Methylphenol	mg/Kg	3,100	R9																											0.33	U	0.33	U	0.43	U	
	2-Nitroaniline	mg/Kg	6,100	RSL																											0.11	U	0.11	U	0.024	U	
	2-Nitrophenol	mg/Kg	NA	NA																											0.11	U	0.11	U	0.29	U	
	3 & 4 Methylphenol	mg/Kg	NA	NA																											0.33	U	0.33	U	0.67	U	
	3,3'-Dichlorobenzidine	mg/Kg	11	RSL																											0.33	U	0.33	U	0.15	U	
	3-Nitroaniline	mg/Kg	NA	NA																											0.33	U	0.33	U	0.023	U	
	4,6-Dinitro-2-methylphenol	mg/Kg	NA	NA																											0.33	R	0.33	U	0.28	U	
	4-Bromophenyl phenyl ether	mg/Kg	NA	NA																											0.11	U	0.11	U	0.026	U	
	4-Chloro-3-methylphenol	mg/Kg	NA	NA																											0.11	U	0.11	U	0.39	U M	
	4-Chloroaniline	mg/Kg	NA	NA																											0.11	U	0.11	U	0.04	U Y	
	4-Chlorophenyl phenyl ether	mg/Kg	NA	NA																											0.11	U	0.11	U	0.027	U	
	4-Nitroaniline	mg/Kg	240	RSL																											0.11	U	0.11	U	0.031	U	
	4-Nitrophenol	mg/Kg	4,756	RFA																											0.33	U	0.33	U	0.41	U	
	Acenaphthene	mg/Kg	3,400	RSL	0.0085		0.0034	R	0.0034	U	0.037		0.1		0.017	U	0.034	U	0.003	R	0.0033	R	0.0033	R	0.009	J	0.01	J-	0.016	J-	0.11		0.15	U	0.13		15.4
	Acenaphthylene	mg/Kg	NA	NA	0.025		0.0034	R	0.0034	U	0.13		0.14		0.017	U	0.034	U	0.003	R	0.0033	R	0.0033	R	0.011	J	0.0034	R	0.003	R	0.34		0.32	U	0.24		17.6
	Anthracene	mg/Kg	22,000	RSL	0.032	J-	0.0034	R	0.0034	R	0.17		0.42		0.017	U	0.034	U	0.003	R	0.0033	R	0.0033	R	0.019	J	0.014	J-	0.003	R	0.42		0.57	U J	0.4		20.1
	Benzo[a]anthracene	mg/Kg	2.21	RFA	0.13	J-	0.0034	R	0.0079	J-	0.52		1		0.017	U	0.034	U	0.015	J-	0.0033	R	0.0033	R	0.087	J	0.022	J-	0.003	R	1.5		1.6	U J	1.7		6.25
	Benzo[a]pyrene	mg/Kg	0.221	RFA	0.16	J-	0.0034	R	0.0071	J-	0.59	J	0.88		0.017	U	0.034	U	0.017	J-	0.0033	R	0.008	J-	0.096	J	0.025	J-	0.008	J-	1.6	J	1.7	U J	1.8	M	5.88
	Benzo[b]fluoranthene	mg/Kg	2.21	RFA	0.19	J-	0.0034	R	0.01	J-	0.63	M	1.1	M	0.017	U	0.034	U	0.03	J-	0.0033	R	0.012	J-	0.17	J	0.058	J-	0.01	J-	1.9	M	2	U J	2.3		10.1
	Benzo[g,h,i]perylene	mg/Kg	62	R9	0.084	J-	0.0034	R	0.0094	J-	0.43		0.52		0.017	U	0.034	U	0.017	J-	0.0033	R	0.022	J-	0.065	J	0.02	J-	0.02	J-	0.87		1	U J	0.76	M	13.7
	Benzo[k]fluoranthene	mg/Kg	22.1	RFA	0.076	J-	0.0034	R	0.0034	R	0.41	M	0.68	M	0.017	U	0.034	U	0.013	J-	0.0033	R	0.0033	R	0.064	J	0.03	J-	0.003	R	0.98	M	0.95	U J	0.97	M	1.58
	Benzoic acid	mg/Kg	240,000	RSL																											1.4	U	1.4	U	0.3	U	
	Benzyl alcohol	mg/Kg	6,100	RSL																											0.11	U	0.11	U	0.085	U	
	bis (2-Chloroisopropyl) ether	mg/Kg	29	RSL																											0.11	U	0.11	U	0.031	U	
	Bis(2-chloroethoxy)methane	mg/Kg	1,783	RFA																											0.11	U	0.11	U	0.024	U	
	Bis(2-chloroethyl)ether	mg/Kg	2	RSL																											0.013	U	0.013	U	0.026	U	
	Bis(2-ethylhexyl) phthalate	mg/Kg	35	RSL																											0.11	U	0.38		0.089	U	
	Butyl benzyl phthalate	mg/Kg	2,600	RSL																											0.11	U	0.11	U	0.075	U	
	Carbazole	mg/Kg	694	RFA																											0.14	J	0.17	U	0.19		15.1
	Chrysene	mg/Kg	221	RFA	0.12	J-	0.0034	R	0.0077	J-	0.55		1.1		0.017	U	0.034	U	0.023	J-	0.0033	R	0.011	J-	0.16	J-	0.067	J-	0.01	J-	1.4		1.5	U J	1.6	M	6.67
	Dibenz(a,h)anthracene	mg/Kg	0.221	RFA	0.022	M	0.0034	R	0.0034	U	0.097		0.16		0.017	U J	0.034	U	0.003	U H	0.0033	U H	0.0033	U H	0.012	H	0.0034	U H	0.003	U H	0.24		0.21		0.32		22.2
	Dibenzofuran	mg/Kg	1,189	RFA																											0.1	J	0.16	U	0.11	J	26.1
	Diethyl phthalate	mg/Kg	49,000	RSL																											0.11	U	0.11	U	0.066	U	
	Dimethyl phthalate	mg/Kg	610,000	R9																											0.11	U	0.11	U	0.065	U	
	Di-n-butyl phthalate	mg/Kg	6,100	RSL																											0.11	U	0.11	U	0.081	U	
	Di-n-octyl phthalate	mg/Kg	2,400	R9																											0.11	U	0.11	U	0.061	U	
	Fluoranthene	mg/Kg	2,756	RFA	0.22	J-	0.011	J-	0.014	J-	1.1	J+	2.4		0.017	U	0.034	U	0.035	J-	0.0033	R	0.013	J-	0.25	J-	0.22	J-	0.015	J-	2.9	J+	3.6	U J	3.5	M	11.4
	Fluorene	mg/Kg	7,366	RFA	0.013	J-	0.0034	R	0.0034	U J	0.076		0.22		0.017	U	0.034	U	0.003	R	0.0033	R	0.0033	R	0.008	J-	0.014	J-	0.003	R	0.18		0.3	U J	0.21		27.2
	Hexachlorobenzene	mg/Kg	3	RSL																											0.013	U	0.013	U	0.029	U	
	Hexachlorobutadiene	mg/Kg	62	RSL																											0.11	U	0.11	U J	0.064	U	
	Hexachlorocyclopentadiene	mg/Kg	370	R9																											0.11	R	0.11	U J	0.053	U	
	Hexachloroethane	mg/Kg	350	RSL																											0.11	U J	0.11	U	0.034	U	
	Indeno[1,2,3-cd]pyrene	mg/Kg	2.21	RFA	0.08	J-	0.0034	R	0.0034	U J	0.4		0.5		0.017	U	0.034	U	0.012	J-	0.0033	R	0.0078	J-	0.052	J-	0.015	J-	0.003	R	0.89		1	U J	1.1		10.5
	Isophorone	mg/Kg	5,100	RSL																											0.075	J	0.053	U	0.051	U	
	Naphthalene	mg/Kg	3,678	RFA	0.0079		0.0034	R	0.0034		0.03		0.073		0.017	U	0.034	U	0.003	R	0.0033	R	0.0099	J-	0.003	R	0.0085	J-	0.014	J-	0.058		0.078	U	0.084	J	18.6
	Nitrobenzene	mg/Kg	48	RSL																											0.013	U	0.013	U	0.061	U	
	N-Nitrosodi-n-propylamine	mg/Kg	1	RFA																											0.11	U	0.11	U	0.072	U	
	N-Nitrosodiphenylamine	mg/Kg	990	R9																											0.11	U	0.11	U	0.051	U	
	Pentachlorophenol	mg/Kg	21	RFA																											0.33	R	0.33	U	0.25	U	
	Phenanthrene	mg/Kg	2,300	R9	0.1	J-	0.011	J-	0.014	J-	0.56		1.8		0.017	U	0.034	U	0.015	J-	0.009	J-	0.022	J-	0.056	J-	0.18	J-	0.015	J-	1.4		2.1	U J	1.8		19.9
	Phenol	mg/Kg	18,000	RSL																											0.11	U	0.11	U	0.16	U	
	Pyrene	mg/Kg	2,074	RFA	0.2	J-	0.0069	J-	0.011	J-	0.85	J+	1.7		0.017	U	0.034	U	0.028	J-	0.0033	R	0.015	J-	0.21	J-	0.15	J-	0.014	J-	2.4	J+	2.7	U J	2.8		7.91
	Only analyzed for PAHs																																% RSD Average =				15.55

See page 7-49 for a list of acronyms and definitions.

Table 7-4-E-1 Ravenna LL 2 Surface and Subsurface Soil Sampling Results: Pesticides and PCBs (1st Data Set)

			Location	Northeast side & southeast sides of Bldg. DB-4, 20 feet wide								RI Discrete Sample Location						% RSD	Southwest & northwest sides of Bldg. DB-4A, 20 feet wide						Northeast & southeast side of Bldg. DB-4A, 20 feet wide					
			Sample ID	LL2SS-519M-0001-SO		LL2SB-513M-0101-SO		LL2SB-513M-0102-SO		LL2SB-513M-0103-SO		LL2SS-516M-0001-SO		LL2SS-517M-0001-SO		LL2SS-518M-0001-SO			LL2SB-514M-0101-SO		LL2SB-514M-0102-SO		LL2SB-514M-0103-SO		LL2SB-515M-0101-SO		LL2SB-515M-0102-SO		LL2SB-515M-0103-SO	
			Type Sample	Primary		Primary		Primary		Primary		Primary		QC		QA			Primary		Primary		Primary		Primary		Primary		Primary	
			Sample Date	7/6/2011		7/1/2011		7/1/2011		7/1/2011		7/6/2011		7/6/2011		7/3/2011			7/1/2011		7/1/2011		7/1/2011		7/1/2011		7/1/2011		7/1/2011	
			Sample Depth	0 - 1		1 - 3		3 - 5		5 - 7		0 - 0.5		0 - 0.5		0 - 0.5			1-3		3-5		5-7		1-3		3 - 5		3 - 5	
			Min REC or RSL																											
Parameter		Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q		Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q
Pesticides and PCBs	4,4'-DDD	mg/Kg	20	RSL									0.014	U	0.034	U	0.00061	U													
	4,4'-DDE	mg/Kg	40.8	RFA									0.019	J D	0.034	U	0.016														
	4,4'-DDT	mg/Kg	17	RSL									0.014	U	0.034	U	0.001	U													
	Aldrin	mg/Kg	0.8	RFA									0.027	U	0.068	U	0.001	U													
	alpha-BHC	mg/Kg	0.9	R9									0.027	U J	0.068	U Q	0.0012	U													
	alpha-Chlordane	mg/Kg	NA	NA									0.027	U J	0.068	U	0.00061	U													
	beta-BHC	mg/Kg	7.7	NA									0.027	U J	0.068	U Q	0.0012	U													
	delta-BHC	mg/Kg	NA	NA									0.027	U	0.068	U	0.0012	J													
	Dieldrin	mg/Kg	0.9	RFA									0.014	U J	0.034	U	0.0088	P													
	Endosulfan I	mg/Kg	370	R9									0.014	U	0.034	U	0.0014	U													
	Endosulfan II	mg/Kg	370	R9									0.027	U	0.068	U	0.00061	U													
	Endosulfan sulfate	mg/Kg	370	R9									0.027	U	0.068	U	0.0018	U													
	Endrin	mg/Kg	17.7	RFA									0.014	U J	0.034	U	0.00081	U													
	Endrin aldehyde	mg/Kg	NA	NA									0.027	U	0.068	U	0.013	P													
	Endrin ketone	mg/Kg	18	R9									0.014	U J	0.034	U	0.0016	U													
	gamma-BHC (Lindane)	mg/Kg	NA	NA									0.027	U J	0.068	U Q	0.001	U													
	gamma-Chlordane	mg/Kg	16	R9									0.0099	D J	0.034	U Q	0.00061	U													
	Heptachlor	mg/Kg	3.1	RFA									0.027	U J	0.068	U	0.00081	U													
	Heptachlor epoxide	mg/Kg	1.5	RFA									0.027	U J	0.068	U	0.0026	J P													
	Methoxychlor	mg/Kg	310	RSL									0.067	U J	0.17	U M	0.0014	U M													
	Toxaphene	mg/Kg	4.4	R9									0.41	U M	1	U M	0.01	U													
	Aroclor 1016	mg/Kg	2	RFA	0.13	U	0.025	U	0.025	U	0.025	U	0.13	U	0.025	U	0.02	U		0.025	U	0.025	U	0.025	U	0.025	U	0.05	U	0.025	U
	Aroclor 1221	mg/Kg	1.4	RSL	0.13	U	0.025	U	0.025	U	0.025	U	0.13	U	0.025	U	0.041	U		0.025	U	0.025	U	0.025	U	0.025	U	0.05	U	0.025	U
	Aroclor 1232	mg/Kg	1.4	RSL	0.13	U	0.025	U	0.025	U	0.025	U	0.13	U	0.025	U	0.055	U		0.025	U	0.025	U	0.025	U	0.025	U	0.05	U	0.025	U
	Aroclor 1242	mg/Kg	2.2	RSL	0.13	U	0.025	U	0.025	U	0.025	U	0.13	U	0.025	U	0.059	U		0.025	U	0.025	U	0.025	U	0.025	U	0.05	U	0.025	U
	Aroclor 1248	mg/Kg	2	RFA	0.13	U	0.025	U	0.025	U	0.025	U	0.13	U	0.025	U	0.059	U		0.025	U	0.025	U	0.025	U	0.025	U	0.65		0.025	U
	Aroclor 1254	mg/Kg	2	RFA	0.49	D	0.54	J	0.24		0.052	J	0.67	D	0.25		0.62		44.69	0.21		0.046	J	1.025	U	0.34		0.05	U	0.048	J
	Aroclor 1260	mg/Kg	2	RFA	0.13	U	0.025	U	0.025	U	0.025	U	0.13	U J	0.025	U	0.024	U M		0.025	U	0.025	U	0.025	U	0.025	U	0.39		0.025	U
															% RSD Average =				44.69											

See page 7-49 for a list of acronyms and definitions.

Table 7-4-E-2 Ravenna LL 2 Surface and Subsurface Soil Sampling Results: Pesticides and PCBs (2nd Data Set)

				Location	RI Discrete Sample Location			
				Sample ID	LL2SS-516M-0001-SO		LL2SS-517M-0001-SO	
				Type Sample	Primary		QC	
				Sample Date	7/6/2011		7/6/2011	
				Sample Depth	0 - 0.5		0 - 0.5	
				Min REC or RSL				
Parameter		Units	Value	REC or RSL	Value	Q	Value	Q
Pesticides and PCBs	4,4'-DDD	mg/Kg	20	RSL	0.014	R	0.034	R
	4,4'-DDE	mg/Kg	40.8	RFA	0.019	J	0.034	R
	4,4'-DDT	mg/Kg	17	RSL	0.014	R	0.034	R
	Aldrin	mg/Kg	0.8	RFA	0.027	R	0.068	R
	alpha-BHC	mg/Kg	0.9	R9	0.027	R	0.068	R
	alpha-Chlordane	mg/Kg	NA	NA	0.027	R	0.068	R
	beta-BHC	mg/Kg	7.7	NA	0.027	R	0.068	R
	delta-BHC	mg/Kg	NA	NA	0.027	R	0.068	R
	Dieldrin	mg/Kg	0.9	RFA	0.014	R	0.034	R
	Endosulfan I	mg/Kg	370	R9	0.014	R	0.034	R
	Endosulfan II	mg/Kg	370	R9	0.027	R	0.068	R
	Endosulfan sulfate	mg/Kg	370	R9	0.027	R	0.068	R
	Endrin	mg/Kg	17.7	RFA	0.014	R	0.034	R
	Endrin aldehyde	mg/Kg	NA	NA	0.027	R	0.068	R
	Endrin ketone	mg/Kg	18	R9	0.014	R	0.034	R
	gamma-BHC (Lindane)	mg/Kg	NA	NA	0.027	R	0.068	R
	gamma-Chlordane	mg/Kg	16	R9	0.0099	J	0.034	R
	Heptachlor	mg/Kg	3.1	RFA	0.027	R	0.068	R
	Heptachlor epoxide	mg/Kg	1.5	RFA	0.027	R	0.068	R
	Methoxychlor	mg/Kg	310	RSL	0.067	R	0.17	R
	Toxaphene	mg/Kg	4.4	R9	0.41	R	1	R

See page 7-49 for a list of acronyms and definitions.

Table 7-5-A Ravenna LL 3 Surface and Subsurface Soil Sampling Results: Metals

		Location	Southwest & northwest sides of Bldg. EB-10, 20						Northeast & southeast side of Bldg. EB-10, 20						RI Discrete Sample Locations						% RSD
		Sample ID	LL3SB-414M-0101-SO		LL3SB-414M-0102-SO		LL3SB-414M-0103-SO		LL3SB-415M-0101-SO		LL3SB-415M-0102-SO		LL3SB-415M-0103-SO		LL3SD-416M-0001-SO		LL3SD-417M-0001-SO		LL3SD-418M-0001-SO		
		Type Sample	Primary		Primary		Primary		Primary		Primary		Primary		Primary		QC		QA		
		Sample Date	6/29/2011		6/29/2011		6/29/2011		6/29/2011		6/29/2011		6/29/2011		7/6/2011		7/6/2011		6/26/2011		
		Sample Depth	1 - 3		3 - 5		5 - 7		1 - 3		3 - 5		5 - 7		0 - 0.5		0 - 0.5		0 - 0.5		
		Min REC or RSL																			
Analyte	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	
Metals	Aluminum	mg/kg	34,960	NG													10000	D	9400	D	10600	B	6.0
	Antimony	mg/kg	136	RFA													1.4	J-	1.5	J-	5.9		87.6
	Arsenic	mg/kg	19.8	BKG1	11	J-	7.5	J-	9.5	J-	11		13		19		14	J-	13	J-	12.9		4.6
	Barium	mg/kg	3,506	NG													150	J-	130	J-	158		9.9
	Beryllium	mg/kg	160	RSL													1.3	D	1.2	D	1.2		4.7
	Cadmium	mg/kg	109	NG													1.0	J	1.1	J	0.71		21.6
	Calcium	mg/kg	NA	NA													15000	D	9800		10700	B	23.5
	Chromium (as Cr-3)	mg/kg	196,942	NG													26	J-	31	J-	298		131.5
	Cobalt	mg/kg	70.3	NG													21	J-	19	J-	13.3		22.5
	Copper	mg/kg	27,138	RFA													9.6	J-	10	J-	18.6		39.9
	Iron	mg/kg	NA	NA													24000		25000		43200		35.2
	Lead	mg/kg	4,000	RSL													23	J-	22	J-	56.1		57.6
	Magnesium	mg/kg	NA	NA													3400		2400		2780		17.6
	Manganese (1' - 5')	mg/kg	1,450	BKG1													3700	J-	3400	J-	4880		19.6
	Nickel	mg/kg	13,463	RFA													28	J-	30	J-	25.4		8.3
	Potassium	mg/kg	NA	NA													730		670		1040		24.4
	Selenium	mg/kg	390	RSL													1.1	J-	1.1	J-	2.4		48.9
	Silver	mg/kg	3,240	RFA													0.43	U	0.5	U	0.017	U	
	Sodium	mg/kg	NA	NA													110		69	J	431		97.5
	Thallium	mg/kg	47.6	RFA													0.16	J	0.13	J	4		155.6
	Vanadium	mg/kg	1,558	RFA													23		23		20.8		5.7
	Zinc	mg/kg	196,589	RFA													160	J-	170	J-	136	B	11.2
	Chromium, hexavalent	mg/kg	16.4	NG													0.46	J	0.45	J	2.7	U	
	Mercury	mg/kg	165	RFA													0.30		0.33		0.23		17.9
																			% RSD Average =			38.7

See page 7-49 for a list of acronyms and definitions.

Table 7-5-B Ravenna LL 3 Surface and Subsurface Soil Sampling Results: Explosives

				Location	RI Discrete Sample Locations						% RSD
				Sample ID	LL3SD-416M-0001-SO		LL3SD-417M-0001-SO		LL3SD-418M-0001-SO		
				Type Sample	Primary		QC		QA		
				Sample Date	7/6/2011		7/6/2011		6/26/2011		
				Sample Depth	0 - 0.5		0 - 0.5		0 - 0.5		
				Min REC or RSL							
	Analyte	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q	
Explosives	1,3,5-Trinitrobenzene	mg/kg	15,280	RFA	0.031	J	0.096	U	0.13	U	
	1,3-Dinitrobenzene	mg/kg	59.4	RFA	0.099	U	0.096	U	0.08	U	
	2,4,6-Trinitrotoluene	mg/kg	211	RFA	0.32		0.27		0.28	J P	9.1
	2,4-Dinitrotoluene	mg/kg	7.53	RFA	0.099	U	0.096	U	0.08	U	
	2,6-Dinitrotoluene	mg/kg	7.69	RFA	0.099	U	0.096	U	0.07	U	
	2-Amino-4,6-dinitrotoluene	mg/kg	128	RFA	0.099	U	0.096	U	0.05	U	
	2-Nitrotoluene	mg/kg	60.3	RFA	0.099	U	0.096	U	0.089	U	
	3-Nitrotoluene	mg/kg	6.1	RSL	0.099	U	0.096	U	0.07	U	
	4-Amino-2,6-dinitrotoluene	mg/kg	128	RFA	0.099	U	0.096	U	0.07	U	
	4-Nitrotoluene	mg/kg	816	RFA	0.099	U	0.096	U	0.07	U	
	RDX	mg/kg	1,452	NG	0.099		0.096	U	0.14	U	
	Tetryl	mg/kg	240	RSL	0.12	J	0.096	U	0.089	U	
	Nitrobenzene	mg/kg	48	RFA	0.11	J	0.096	U	0.04	U	
	Nitroglycerin	mg/kg	816	RFA	0.25	U	0.24	U	0.5	U	
	HMX	mg/kg	19,090	RFA	0.099	U	0.096	U	0.12	U	
	PETN	mg/kg	NA	NA	0.25	U	0.24	U	0.5	U	
	Nitroguanidine	mg/kg	6,100	RSL	0.039	U	0.039	U	0.06	U	
	Nitrocellulose	mg/kg	NA	NA	1.4	J	1.4	J	13	U	
							% RSD Average =				9.1

See page 7-49 for a list of acronyms and definitions.

Table 7-5-C Ravenna LL 3 Surface and Subsurface Soil Sampling Results: Volatile Organic Compounds

			Location	RI Discrete Sampling Locations					
			Sample ID	LL3SD-416M-0001-SO		LL3SD-417M-0001-SO		LL3SD-418M-0001-SO	
			Type Sample	Primary		QC		QA	
			Sample Date	8/16/2010		6/26/2011		6/26/2011	
			Sample Depth	0 - 0.5		0 - 0.5		0 - 0.5	
			Min REC or RSL						
	Analyte	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q
Volatile Organics	1,1,1-Trichloroethane	mg/kg	8700	RSL	0.0093	U J	0.0083	U J	0.012	U
	1,1,2,2-Tetrachloroethane	mg/kg	5.6	RSL	0.023	U J	0.021	U J	0.0072	U
	1,1,2-Trichloroethane	mg/kg	11	RSL	0.023	U J	0.021	U J	0.0096	U
	1,1-Dichloroethane	mg/kg	33	RSL	0.023	U J	0.021	U J	0.013	U
	1,1-Dichloroethene	mg/kg	120	R9	0.023	U J	0.021	U J	0.019	U
	1,2-Dibromoethane	mg/kg	0.34	RSL	0.023	U J	0.021	U J	0.012	U
	1,2-Dichloroethane	mg/kg	4.3	RSL	0.023	U J	0.021	U J	0.014	U
	1,2-Dichloroethene (total)	mg/kg	NA	NA	0.0077	U J	0.0068	U J		
	1,2-Dichloropropane	mg/kg	8.8	RSL	0.0093	U J	0.0083	U J	0.0084	U
	2-Butanone	mg/kg	22,000	R9	0.093	U J	0.083	U J	0.12	U
	2-Hexanone	mg/kg	210	RSL	0.047	U J	0.041	U J	0.082	U
	4-Methyl-2-pentanone	mg/kg	5,300	R9	0.093	U J	0.083	U J	0.099	U
	Acetone	mg/kg	61,000	RSL	0.19	U J	0.17	U J	0.076	U
	Benzene	mg/kg	11	RSL	0.023	U J	0.021	U J	0.006	U
	Bromochloromethane	mg/kg	8.2	R9	0.023	U J	0.021	U J	0.0096	U
	Bromodichloromethane	mg/kg	2.7	RSL	0.023	U J	0.021	U J	0.011	U
	Bromoform	mg/kg	610	RSL	0.023	U J	0.021	U J	0.0072	U
	Bromomethane	mg/kg	7.3	RSL	0.047	U J	0.041	U J	0.036	U
	Carbon disulfide	mg/kg	820	RSL	0.042	J	0.038	J	0.018	U
	Carbon tetrachloride	mg/kg	6.1	RSL	0.0093	U J	0.0083	U J	0.013	U
	Chlorobenzene	mg/kg	290	RSL	0.0093	U J	0.0083	U J	0.0096	U
	Chloroethane	mg/kg	30	R9	0.093	U J	0.083	U J	0.023	U
	Chloroform	mg/kg	2.9	RSL	0.023	U J	0.021	U J	0.011	U
	Chloromethane	mg/kg	120	RSL	0.023	U J	0.021	U J	0.03	U
	cis-1,2-Dichloroethene	mg/kg	NA	NA	0.0093	U J	0.0083	U J	0.012	U
	cis-1,3-Dichloropropene	mg/kg	17	RSL	0.0093	U J	0.0083	U J	0.012	U
	Dibromochloromethane	mg/kg	6.8	RSL	0.023	U J	0.021	U J	0.0096	U
	Ethylbenzene	mg/kg	54	RSL	0.0093	U J	0.023	J	0.0096	U
	Methylene chloride	mg/kg	110	RSL	0.15	U J	0.13	U J	0.048	U
	Styrene	mg/kg	6,300	RSL	0.0093	U J	0.0083	U J	0.0072	U
	Tetrachloroethene	mg/kg	4.8	R9	0.023	U J	0.021	U J	0.0096	U Z
	Toluene	mg/kg	5,000	RSL	0.023	U J	0.051	J	0.013	J
	trans-1,2-Dichloroethene	mg/kg	NA	NA	0.023	U J	0.021	U J	0.013	U
	trans-1,3-Dichloropropene	mg/kg	17	RSL	0.023	U J	0.021	U J	0.0084	U
	Trichloroethene	mg/kg	0.53	R9	0.023	U J	0.021	U J	0.012	U
	Vinyl chloride	mg/kg	0.6	RSL	0.023	U J	0.021	U J	0.017	U
	Xylene (Total)	mg/kg	630	RSL	0.028	U J	0.22	J		

All results were below the RL. No RSDs were calculated.

See page 7-49 for a list of acronyms and definitions.

Table 7-5-D Ravenna LL 3 Surface and Subsurface Soil Sampling Results: Semi-Volatile Organic Compounds

				Location	Southwest & northwest sides of Bldg. EB-10, 20 feet wide						Northeast & southeast side of Bldg. EB-10, 20 feet wide						RI Discrete Sample Location															
				Sample ID	LL3SB-414M-0101-SO		LL3SB-414M-0102-SO		LL3SB-414M-0103-SO		LL3SB-415M-0101-SO		LL3SB-415M-0102-SO		LL3SB-415M-0103-SO		LL3SD-416M-0001-SO		LL3SD-417M-0001-SO		LL3SD-418M-0001-SO		% RSD	LL3SS-419M-0001-SO		LL3SS-420M-0001-SO		LL3SS-421M-0001-SO		LL3SS-422M-0001-SO	
				Type Sample	Primary		Primary		Primary		Primary		Primary		Primary		Primary		QC		QA			Primary		Primary		Primary		Primary	
				Sample Date	6/29/2011		6/29/2011		6/29/2011		6/29/2011		6/29/2011		6/29/2011		7/6/2011		7/6/2011		6/26/2011			7/6/2011		7/6/2011		7/6/2011		7/6/2011	
				Sample Depth (ft)	1 - 3		3 - 5		5 - 7		1 - 3		3 - 5		5 - 7		0 - 0.5		0 - 0.5		0 - 0.5			0 - 1		1 - 2		0 - 1		1 - 2	
				Min REC or RSL																												
	Parameter	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q		Value	Q	Value	Q	Value	Q	Value	Q
	1,2- Dichlorobenzene	mg/kg	1900	RSL													0.55	U J	0.18	U J	0.024	U									
	1,2,4- Trichlorobenzene	mg/kg	220	RSL													0.55	U J	0.18	U J	0.021	U									
	1,3-Dichlorobenzene	mg/kg	530	R9													0.55	U J	0.18	U J	0.02	U									
	1,4-Dichlorobenzene	mg/kg	24	RSL													0.55	U	0.18	U	0.019	U									
	2,4- Dichlorophenol	mg/kg	180	RSL													0.55	U	0.18	U	0.12	U									
	2,4- Dimethylphenol	mg/kg	1,200	RSL													1.6	U	0.54	U	0.1	U									
	2,4- Dinitrophenol	mg/kg	120	RSL													1.6	U	0.54	U	0.28	U									
	2,4- Dinitrotoluene	mg/kg	16	RSL													0.55	U	0.18	U	0.024	U									
	2,4,5-Trichlorophenol	mg/kg	6,100	RSL													0.55	U J	0.18	U J	0.13	U									
	2,4,6- Trichlorophenol	mg/kg	440	RSL													1.6	U J	0.54	U J	0.13	U									
	2,6- Dinitrotoluene	mg/kg	61	RSL													0.55	U	0.18	U	0.024	U									
	2-Chloronaphthalene	mg/kg	6,300	RSL													0.067	U	0.022	U	0.023	U									
	2-Chlorophenol	mg/kg	390	RSL													0.55	U	0.18	U	0.35	U									
	2-Methylnaphthalene	mg/kg	2,378	RFA													0.067	U	0.088	D	0.063		18.5								
	2-Methylphenol	mg/kg	3,100	R9													1.6	U	0.54	U	0.43	U									
	2-Nitroaniline	mg/kg	6,100	RSL													0.55	U	0.18	U	0.023	U									
	2-Nitrophenol	mg/kg	NA	NA													0.55	U	0.18	U	0.29	U									
	3 & 4 Methylphenol	mg/kg	NA	NA													1.6	U	0.54	U	0.66	U									
	3,3'-Dichlorobenzidine	mg/kg	11	RSL													1.6	U	0.54	U	0.15	U									
	3-Nitroaniline	mg/kg	NA	NA													1.6	U	0.54	U	0.022	U									
	4,6-Dinitro-2-methylphenol	mg/kg	NA	NA													1.6	U	0.54	U	0.28	U									
	4-Bromophenyl phenyl ether	mg/kg	NA	NA													0.55	U	0.18	U	0.026	U									
	4-Chloro-3-methylphenol	mg/kg	NA	NA													0.55	U	0.18	U	0.39	U									
	4-Chloroaniline	mg/kg	NA	NA													0.55	U	0.18	U	0.04	U									
	4-Chlorophenyl phenyl ether	mg/kg	NA	NA													0.55	U	0.18	U	0.027	U									
	4-Nitroaniline	mg/kg	240	RSL													0.55	U	0.18	U	0.031	U									
	4-Nitrophenol	mg/kg	4,756	RFA													1.6	U	0.54	U	0.41	U									
Semivolatile Organics	Acenaphthene	mg/kg	3,400	RSL	0.044		19	J-	0.0033	U	0.0034	U	0.0033	U	0.0033	U	0.36	D	0.13	D	0.13		64.3	0.1		0.0093		0.012		0.0034	U
	Acenaphthylene	mg/kg	NA	NA	0.027		0.66	R	0.0033	U	0.0034	U	0.0033	U	0.0033	U	1.6	D	0.55	D	0.79		56.1	0.0067	U	0.0094		0.078		0.0098	
	Anthracene	mg/kg	22,000	RSL	0.16		31	J-	0.0033	U	0.013		0.025		0.0069		3.1	J-	1	J-	1.3		63.1	0.3	J-	0.024	J-	0.054	J-	0.014	
	Benzo[a]anthracene	mg/kg	2.21	RFA	0.71		63	J-	0.017		0.081		0.36		0.089		8.6	J-	2.9	J-	4.9		52.9	0.48	J-	0.078	J-	0.25	J-	0.055	
	Benzo[a]pyrene	mg/kg	0.221	RFA	0.58		47	J-	0.011		0.081		0.4		0.1		6.8	J-	2.5	J-	3.7		51.2	0.4	J-	0.07	J-	0.26	J-	0.065	J
	Benzo[b]fluoranthene	mg/kg	2.21	RFA	0.76	M	54	J-	0.015	M	0.1	M	0.48	M	0.12	M	9.1	J-	3.1	J-	6		49.5	0.44	J-	0.099	J-	0.4	J-	0.089	
	Benzo[g,h,i]perylene	mg/kg	62	R9	0.35		21	J-	0.01		0.054		0.25		0.055		4.2	J-	1.5	J-	1.2		71.8	0.25	J-	0.05	J-	0.19	J-	0.05	
	Benzo[k]fluoranthene	mg/kg	22.1	RFA	0.45	M	35	J-	0.014	M	0.052	M	0.22	M	0.056	M	5	J-	1.9	J-	1.5		68.4	0.29	J-	0.051	J-	0.24	J-	0.049	
	Benzoic acid	mg/kg	240,000	RSL													6.8	U	2.3	U	0.3	U									
	Benzyl alcohol	mg/kg	6,100	RSL													0.55	U	0.18	U	0.085	U									
	Bis (2-Chloroisopropyl) ether	mg/kg	29	RSL													0.55	U	0.18	U	0.031	U									
	Bis(2-chloroethoxy)methane	mg/kg	1,783	RFA													0.55	U	0.18	U	0.023	U									
	Bis(2-chloroethyl)ether	mg/kg	2	RSL													0.067	U	0.022	U	0.026	U									
	Bis(2-ethylhexyl) phthalate	mg/kg	35	RSL													0.55	U	0.18	U	0.14	J									
	Butyl benzyl phthalate	mg/kg	2,600	RSL													0.55	U	0.18	U	0.074	U									
	Carbazole	mg/kg	694	RFA													1.1	D	0.4	D	0.64		49.9								
	Chrysene	mg/kg	221	RFA	0.72		64	J-	0.019		0.075		0.32		0.088		8.2	J-	2.5	J-	4.1		59.6	0.47	J-	0.079	J-	0.28	J-	0.071	
	Dibenz(a,h)anthracene	mg/kg	0.221	RFA	0.12		7.2	J-	0.0033	U	0.013		0.065		0.017		1.2	D	0.59	D	1.1		34.0	0.056		0.0088		0.06		0.012	
	Dibenzofuran	mg/kg	1,189	RFA													0.55	J	0.2	J	0.28		53.4								
	Diethyl phthalate	mg/kg	49,000	RSL													0.55	U	0.18	U	0.065	U									
	Dimethyl phthalate	mg/kg	610,000	R9													0.55	U	0.18	U	0.064	U									
	Di-n-butyl phthalate	mg/kg	6,100	RSL													0.55	U	0.18	U	0.081	U									
	Di-n-octyl phthalate	mg/kg	2,400	R9													0.55	U	0.18	U	0.06	U									
	Fluoranthene	mg/kg	2,756	RFA	1.4		160	J-	0.042		0.13		0.35		0.087		19	J-	5.5	J-	9.4		61.5	1.2	J-	0.16	J-	0.39	J-	0.12	J+
	Fluorene	mg/kg	7,366	RFA	0.04		11	J-	0.0033	U	0.0034	U	0.01		0.0033	U	1	J-	0.32	J-	0.44		61.9	0.12	J-	0.012	J-	0.015	J-	0.0073	
	Hexachlorobenzene	mg/kg	3	RSL													0.067	U	0.022	U	0.029	U									
	Hexachlorobutadiene	mg/kg	62	RSL													0.55	U J	0.18	U J	0.063	U									
	Hexachlorocyclopentadiene	mg/kg	370	R9													0.55	U J	0.18	U J	0.053	U									
	Hexachloroethane	mg/kg	350	RSL													0.55	U	0.18	U	0.034	U									
	Indeno[1,2,3-cd]pyrene	mg/kg	2.21	RFA	0.32		21	J-	0.007		0.043		0.21		0.05		4.1	J-	1.5	J-	2.4		49.5	0.22	J-	0.046	J-	0.2	J-	0.046	
	Isophorone	mg/kg	5,100	RSL													0.55	U	0.18	U	0.051	U									
	Naphthalene	mg/kg	3,678	RFA	0.015		11	J-	0.0033	U	0.008		0.015		0.0033	U	0.17	D	0.074	D	0.11		41.1	0.079		0.012		0.025		0.012	
	Nitrobenzene	mg/kg	48	RSL													0.067	U	0.022	U	0.06	U									
	N-Nitrosodi-n-propylamine	mg/kg	1	RFA													0.55	U	0.18	U	0.071	U									
	N-Nitrosodiphenylamine	mg/kg	990	R9													0.55	U	0.18	U	0.08	U									
	Pentachlorophenol	mg/kg	21	RFA													1.6	U	0.54	U	0.24	U									
	Phenanthrene	mg/kg	2,300	R9	0.66		96	J-	0.026		0.059		0.11		0.023		9.2	J-	2.8	J-	4.8		58.5	0.99	J-	0.1	J-	0.14	J-	0.052	
	Phenol	mg/kg	18,000	RSL													0.55	U	0.18	U	0.16	U									
	Pyrene	mg/kg	2,074	RFA	1.1		120	J-	0.03		0.11		0.36		0.089		13	J-	4	J-	7.1		56.9	0.93	J-	0.13	J-	0.35	J-	0.096	J+
																			% RSD Average =			51.1								

See page 7-49 for a list of acronyms and definitions.

Table 7-5-E-1 Ravenna LL 3 Surface and Subsurface Soil Sampling Results: Pesticides and PCBs (1st Data Set)

			Location	Southwest & northwest sides of Bldg. EB-4, 20 feet wide						Northeast side & southeast sides of Bldg. EB-4, 20 feet wide								RI Discrete Sample Location						% RSD
			Sample ID	LL3SS-423M-0001-SO		LL3SB-412M-0101-SO		LL3SB-412M-0102-SO		LL3SS-424M-0001-SO		LL3SB-413M-0101-SO		LL3SB-413M-0102-SO		LL3SB-413M-0103-SO		LL3SD-416M-0001-SO		LL3SD-417M-0001-SD		LL3SD-418M-0001-SO		
			Type Sample	Primary		Primary		Primary		Primary		Primary		Primary		Primary		Primary		QC		QA		
			Sample Date	6/30/2011		6/30/2011		6/30/2011		6/30/2011		6/30/2011		6/30/2011		6/30/2011		7/6/2011		7/6/2011		6/26/2011		
			Sample Depth	0 - 1		1 - 3		3 - 5		0 - 1		1 - 3		3 - 5		5 - 7		0 - 0.5		0 - 0.5		0 - 0.5		
			Min REC or RSL																					
Parameter		Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	
Pesticides and PCBs	4,4'-DDD	mg/kg	20	RSL															0.034	U	0.034	U	0.00061	U	
	4,4'-DDE	mg/kg	40.8	RFA															0.034	U	0.034	U	0.036		
	4,4'-DDT	mg/kg	17	RSL															0.034	U	0.034	U	0.001	U	
	Aldrin	mg/kg	0.8	RFA															0.068	U	0.068	U	0.001	U	
	alpha-BHC	mg/kg	0.9	R9															0.068	U Q	0.068	U Q	0.0012	U	
	alpha-Chlordane	mg/kg	NA	NA															0.068	U	0.068	U	0.00061	U	
	beta-BHC	mg/kg	7.7	NA															0.13	J D	0.13	J D Q	0.0012	U	
	Chlordane (Technical)	mg/kg	NA	NA																			0.0082	U	
	delta-BHC	mg/kg	NA	NA															0.068	U	0.068	U Q	0.00061	U	
	Dieldrin	mg/kg	0.9	RFA															0.034	U	0.034	U	0.00061	U	
	Endosulfan I	mg/kg	370	R9															0.034	U	0.034	U	0.0014	U	
	Endosulfan II	mg/kg	370	R9															0.068	U	0.068	U	0.0016	J P	
	Endosulfan sulfate	mg/kg	370	R9															0.068	U	0.068	U	0.0018	U	
	Endrin	mg/kg	17.7	RFA															0.034	U	0.034	U	0.02	P	
	Endrin aldehyde	mg/kg	NA	NA															0.068	U	0.068	U	0.0022	U	
	Endrin ketone	mg/kg	18	R9															0.034	U	0.034	U	0.0016	U	
	gamma-BHC (Lindane)	mg/kg	NA	NA															0.068	U Q	0.068	U Q	0.001	U	
	gamma-Chlordane	mg/kg	16	R9															0.034	U Q	0.034	U Q	0.00061	U	
	Heptachlor	mg/kg	3.1	RFA															0.068	U	0.068	U	0.11	P	
	Heptachlor epoxide	mg/kg	1.5	RFA															0.068	U	0.068	U	0.0031	J P	
	Methoxychlor	mg/kg	310	RSL															0.17	U	0.17	U	0.0014	U	
	Toxaphene	mg/kg	4.4	R9															1	U M	1	U M	0.01	U	
	Aroclor 1016	mg/kg	2	RFA	0.025	U	0.025	U	0.025	U	0.025	U	5	U	0.025	U	0.025	U	0.025	U	0.025	U	0.01	U	
	Aroclor 1221	mg/kg	1.4	RSL	0.025	U	0.025	U	0.025	U	0.025	U	5	U	0.025	U	0.025	U	0.025	U	0.025	U	0.02	U	
	Aroclor 1232	mg/kg	1.4	RSL	0.025	U	0.025	U	0.025	U	0.025	U	5	U	0.025	U	0.025	U	0.025	U	0.025	U	0.028	U	
	Aroclor 1242	mg/kg	2.2	RSL	0.025	U	0.025	U	0.025	U	0.025	U	5	U	0.025	U	0.025	U	0.025	U	0.025	U	0.03	U	
	Aroclor 1248	mg/kg	2	RFA	0.025	U	0.025	U	0.025	U	0.025	U	5	U	0.025	U	0.025	U	0.025	U	0.025	U	0.03	U	
	Aroclor 1254	mg/kg	2	RFA	0.22		0.083		0.13		0.25		100	D	0.45		0.087		0.044	J	0.086		0.087	J	33.9
	Aroclor 1260	mg/kg	2	RFA	0.025	U	0.025	U	0.025	U	0.025	U	5	U	0.025	U	0.025	U	0.025	U	0.025	U	0.012	U	
																					% RSD Average =				33.9

See page 7-49 for a list of acronyms and definitions.

Table 7-5-E-2 Ravenna LL 3 Surface and Subsurface Soil Sampling Results: Pesticides and PCBs (2nd Data Set)

				Location	RI Discrete Sample Location			
				Sample ID	LL3SD-416M-0001-SO		LL3SD-417M-0001-SD	
				Type Sample	Primary		QC	
				Sample Date	7/6/2011		7/6/2011	
				Sample Depth	0 - 0.5		0 - 0.5	
				Min REC or RSL				
Parameter		Units	Value	REC or RSL	Value	Q	Value	Q
Pesticides and PCBs	4,4'-DDD	mg/kg	20	RSL	0.034	R	0.034	R
	4,4'-DDE	mg/kg	40.8	RFA	0.034	R	0.034	R
	4,4'-DDT	mg/kg	17	RSL	0.034	R	0.034	R
	Aldrin	mg/kg	0.8	RFA	0.068	R	0.068	R
	alpha-BHC	mg/kg	0.9	R9	0.068	R	0.068	R
	alpha-Chlordane	mg/kg	NA	NA	0.068	R	0.068	R
	beta-BHC	mg/kg	7.7	NA	0.13	J	0.13	J
	Chlordane (Technical)	mg/kg	NA	NA				
	delta-BHC	mg/kg	NA	NA	0.068	R	0.068	R
	Dieldrin	mg/kg	0.9	RFA	0.034	R	0.034	R
	Endosulfan I	mg/kg	370	R9	0.034	R	0.034	R
	Endosulfan II	mg/kg	370	R9	0.068	R	0.068	R
	Endosulfan sulfate	mg/kg	370	R9	0.068	R	0.068	R
	Endrin	mg/kg	17.7	RFA	0.034	R	0.034	R
	Endrin aldehyde	mg/kg	NA	NA	0.068	R	0.068	R
	Endrin ketone	mg/kg	18	R9	0.034	R	0.034	R
	gamma-BHC (Lindane)	mg/kg	NA	NA	0.068	R	0.068	R
	gamma-Chlordane	mg/kg	16	R9	0.034	R	0.034	R
	Heptachlor	mg/kg	3.1	RFA	0.068	R	0.068	R
	Heptachlor epoxide	mg/kg	1.5	RFA	0.068	R	0.068	R
	Methoxychlor	mg/kg	310	RSL	0.17	R	0.17	R
	Toxaphene	mg/kg	4.4	R9	1	R	1	R

See page 7-49 for a list of acronyms and definitions

Table 7-6-A Ravenna LL 4 Surface and Subsurface Soil Sampling Results: Metals

				Location	RI Discrete Sample Location						
				Sample ID	LL4SS-416M-0001-SO		LL4SS-417M-0001-SO		LL4SS-418M-0001-SO		% RSD
				Type Sample	Primary		QC		QA		
				Sample Date	6/27/2011		6/27/2011		6/26/2011		
				Sample Depth	0 - 1		0 - 1		0 - 1		
				Min REC or RSL							
	Analyte	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q	
Metals	Aluminum	mg/kg	34,960	NG	5900	J+	7000		7630	B	12.8
	Antimony	mg/kg	136	RFA	0.09	J	0.092	J	0.8		125.1
	Arsenic (0-1')	mg/kg	19.8	BKG1	8.0	J-	8.3	J-	8.9		5.5
	Barium	mg/kg	3,506	NG	67	J+	70	J+	148		48.3
	Beryllium	mg/kg	160	RSL	0.48	J	0.46		0.46		2.5
	Cadmium	mg/kg	109	NG	0.37	J	0.29		0.22		25.6
	Calcium	mg/kg	NA	NA	4500	J+	5200		5310	B	8.8
	Chromium (as Cr-3)	mg/kg	196,942	NG	19		22		55.6		63.1
	Cobalt	mg/kg	70.3	NG	6.3	D	6.6		6.4		2.4
	Copper	mg/kg	27,138	RFA	14	J-	14	J-	18.6		17.1
	Iron	mg/kg	NA	NA	16000	J-	17000		18700		7.9
	Lead	mg/kg	4,000	RSL	22		20		24.7		10.6
	Magnesium	mg/kg	NA	NA	1900		2100		2100		5.7
	Manganese	mg/kg	1,450	BKG1	430	J+	480	J+	495		7.3
	Nickel	mg/kg	13,463	RFA	24		47		17.7		52.2
	Potassium	mg/kg	NA	NA	710		730		713		1.5
	Selenium	mg/kg	390	RSL	0.81	J-	0.84	J-	0.81		2.1
	Silver	mg/kg	3,240	RFA	0.25	U	0.039	J	0.017	U	
	Sodium	mg/kg	NA	NA	38	J	51	J	200		93.4
	Thallium	mg/kg	47.6	RFA	0.12	J	0.16	J	0.57		87.9
	Vanadium	mg/kg	1,558	RFA	12		12		11.1		4.4
	Zinc	mg/kg	196,589	RFA	110	J	82	J	112	B	16.6
	Chromium, hexavalent	mg/kg	16.4	NG	1		1.2		2.6	U	
	Mercury	mg/kg	165	RFA	0.024	J	0.024	J	0.028		9.1
							% RSD Average =				27.7

See page 7-49 for a list of acronyms and definitions.

Table 7-6-B Ravenna LL 4 Surface and Subsurface Soil Sampling Results: Explosives

				Location	RI Discrete Sample Location					
				Sample ID	LL4SS-416M-0001-SO		LL4SS-417M-0001-SO		LL4SS-418M-0001-SO	
				Type Sample	Primary		QC		QA	
				Sample Date	6/27/2011		6/27/2011		6/26/2011	
				Sample Depth	0 - 1		0 - 1		0 - 1	
				Min REC or RSL						
	Analyte	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q
Explosives	1,3,5-Trinitrobenzene	mg/kg	15,280	RFA	0.098	U	0.098	U	0.13	U
	1,3-Dinitrobenzene	mg/kg	59.4	RFA	0.098	U	0.098	U	0.08	U
	2,4,6-Trinitrotoluene	mg/kg	211	RFA	0.098	U	0.098	U	0.09	U
	2,4-Dinitrotoluene	mg/kg	7.53	RFA	0.098	U	0.098	U	0.08	U
	2,6-Dinitrotoluene	mg/kg	7.69	RFA	0.098	U	0.098	U	0.07	U
	2-Amino-4,6-dinitrotoluene	mg/kg	128	RFA	0.098	U	0.098	U	0.05	U
	2-Nitrotoluene	mg/kg	60.3	RFA	0.098	U	0.098	U	0.09	U
	3-Nitrotoluene	mg/kg	6.1	RSL	0.098	U	0.098	U	0.07	U
	4-Amino-2,6-dinitrotoluene	mg/kg	128	RFA	0.098	U	0.098	U	0.07	U
	4-Nitrotoluene	mg/kg	816	RFA	0.098	U	0.098	U	0.07	U
	HMX	mg/kg	19,090	RFA	0.098	U	0.098	U	0.12	U
	RDX	mg/kg	1,452	NG	0.098	U	0.098	U	0.14	U
	Nitrobenzene	mg/kg	48	RFA	0.098	U	0.098	U	0.04	U
	Nitroglycerin	mg/kg	816	RFA	0.24	U	0.24	U	0.5	U
	Tetryl	mg/kg	240	RSL	0.098	U	0.098	U	0.09	U
	PETN	mg/kg	NA	NA	0.24	U	0.24	U	0.5	U
	Nitroguanidine	mg/kg	6,100	RSL	0.25	U J	0.25	U J	0.06	U
	Nitrocellulose	mg/kg	NA	NA	3.2	J	1.9	U	22	J

All results were below the RL. No RSDs were calculated.

See page 7-49 for a list of acronyms and definitions.

Table 7-6-C Ravenna LL 4 Surface and Subsurface Soil Sampling Results: Volatile Organic Compounds

			Location	RI Discrete Sample Location					
			Sample ID	LL4SS-416V-0001-SO		LL4SS-417V-0001-SO		LL4SS-418V-0001-SO	
			Type Sample	Primary		QC		QA	
			Sample Date	8/16/2010		6/26/2011		6/26/2011	
			Sample Depth	0 - 1		0 - 1		0 - 1	
			Min REC or RSL						
	Analyte	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q
Volatile Organics	1,1,1-Trichloroethane	mg/kg	8700	RSL	0.0084	U J	0.0094	U J	0.0081	U
	1,1,2,2-Tetrachloroethane	mg/kg	5.6	RSL	0.021	U J	0.023	U J	0.0049	U
	1,1,2-Trichloroethane	mg/kg	11	RSL	0.021	U J	0.023	U J	0.0065	U
	1,1-Dichloroethane	mg/kg	33	RSL	0.021	U J	0.023	U J	0.0089	U
	1,1-Dichloroethene	mg/kg	120	R9	0.021	U J	0.023	U J	0.013	U
	1,2-Dibromoethane	mg/kg	0.34	RSL	0.021	U J	0.023	U J	0.0081	U
	1,2-Dichloroethane	mg/kg	4.3	RSL	0.021	U J	0.023	U J	0.0097	U
	1,2-Dichloroethene (total)	mg/kg	NA	NA	0.0069	U J	0.0077	U J		
	1,2-Dichloropropane	mg/kg	8.8	RSL	0.0084	U J	0.0094	U J	0.0057	U
	2-Butanone	mg/kg	22,000	R9	0.084	U J	0.094	U J	0.081	U
	2-Hexanone	mg/kg	210	RSL	0.042	U J	0.047	U J	0.055	U
	4-Methyl-2-pentanone	mg/kg	5,300	R9	0.084	U J	0.094	U J	0.066	U
	Acetone	mg/kg	61,000	RSL	0.17	U J	0.19	U J	0.051	U
	Benzene	mg/kg	11	RSL	0.021	U J	0.023	U J	0.004	U
	Bromochloromethane	mg/kg	8.2	R9	0.021	U J	0.023	U J	0.0065	U
	Bromodichloromethane	mg/kg	2.7	RSL	0.021	U J	0.023	U J	0.0073	U
	Bromoform	mg/kg	610	RSL	0.021	U J	0.023	U J	0.0049	U
	Bromomethane	mg/kg	7.3	RSL	0.042	U J	0.047	U J	0.024	U
	Carbon disulfide	mg/kg	820	RSL	0.021	U J	0.023	U J	0.012	U
	Carbon tetrachloride	mg/kg	6.1	RSL	0.0084	U J	0.0094	U J	0.0089	U
	Chlorobenzene	mg/kg	290	RSL	0.0084	U J	0.0094	U J	0.0065	U
	Chloroethane	mg/kg	30	R9	0.084	U J	0.094	U J	0.015	U
	Chloroform	mg/kg	2.9	RSL	0.021	U J	0.023	U J	0.0073	U
	Chloromethane	mg/kg	120	RSL	0.021	U J	0.023	U J	0.02	U
	cis-1,2-Dichloroethene	mg/kg	NA	NA	0.0084	U J	0.0094	U J	0.0081	U
	cis-1,3-Dichloropropene	mg/kg	17	RSL	0.0084	R	0.0094	R	0.0081	U
	Dibromochloromethane	mg/kg	6.8	RSL	0.021	U J	0.023	U J	0.0065	U
	Ethylbenzene	mg/kg	54	RSL	0.0084	U J	0.0094	U J	0.0065	U
	Methylene chloride	mg/kg	110	RSL	0.084	U J	0.094	U J	0.032	U
	Styrene	mg/kg	6,300	RSL	0.0084	U J	0.0094	U J	0.0049	U
	Tetrachloroethene	mg/kg	4.8	R9	0.021	U J	0.023	U J	0.0065	U
	Toluene	mg/kg	5,000	RSL	0.021	U J	0.023	U J	0.0058	J
	trans-1,2-Dichloroethene	mg/kg	NA	NA	0.021	U J	0.023	U J	0.0089	U
	trans-1,3-Dichloropropene	mg/kg	17	RSL	0.021	R	0.023	R	0.0057	U
	Trichloroethene	mg/kg	0.53	R9	0.021	U J	0.023	U J	0.0081	U
	Vinyl chloride	mg/kg	0.6	RSL	0.021	U J	0.023	U J	0.011	U
	Xylene (Total)	mg/kg	630	RSL	0.025	U J	0.028	U J		

All results were below the RL. No RSDs were calculated.

See page 7-49 for a list of acronyms and definitions.

Table 7-6-D Ravenna LL 4 Surface and Subsurface Soil Sampling Results: Semi-Volatile Organic Compounds

				Location	20 feet wide along north side of G8						Area south of G8, 20 feet wide along south side						Northeast half of G-8						Half width of G8, adjacent to SW end of G8										Southwest end of Sample LL4SS-414-M-0001-SO				RI Discrete Sample Location						% RSD for samples LL2SS-417M	RI Discrete Sample Location					
				Sample ID	LL4SB-407M-0101-SO		LL4SB-407M-0102-SO		LL4SB-407M-0103-SO		LL4SB-410M-0101-SO		LL4SB-410M-0102-SO		LL4SB-410M-0103-SO		LL4SB-411M-0101-SO		LL4SB-411M-0102-SO		LL4SB-411M-0103-SO		LL4SS-412M-0001-SO		LL4SB-413M-0101-SO		LL4SB-413M-0102-SO		LL4SB-413M-0103-SO		LL4SS-414M-0001-SO		LL4SB-415M-0101-SO		LL4SB-415M-0102-SO		LL4SB-415M-0103-SO		LL4SS-416M-0001-SO		LL4SS-417M-0001-SO		LL4SS-418M-0001-SO			LL4SS-419M-0001-SO		LL4SS-420M-0001-SO		LL4SB-421M-0001-SO	
				Type Sample	Primary		Primary		Primary		Primary		Primary		Primary		Primary		Primary		Primary		Primary		Primary		Primary		Primary		Primary		Primary		Primary		Primary		Primary		QC		QA			Primary		Primary		Primary	
				Sample Date	6/28/2011		6/28/2011		6/28/2011		6/28/2011		6/28/2011		6/28/2011		6/28/2011		6/28/2011		6/28/2011		6/27/2011		6/28/2011		6/28/2011		6/28/2011		6/27/2011		6/28/2011		6/28/2011		6/28/2011		6/27/2011		6/27/2011		6/26/2011			6/27/2011		6/27/2011		6/27/2011	
				Sample Depth (ft)	1 - 3		3 - 5		5 - 7		1 - 3		3 - 5		5 - 7		1 - 3		3 - 5		5 - 7		0 - 1		1 - 3		3 - 5		5 - 7		0 - 1		1 - 3		3 - 5		5 - 7		0 - 1		0 - 1		0 - 1			0 - 1		0 - 1		1 - 2	
				Min REC or RSL																																														
	Parameter	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q		Value	Q	Value	Q	Value	Q
	1,2- Dichlorobenzene	mg/kg	1900	RSL																																			0.028	U J	0.028	U J	0.024	U						
	1,2,4- Trichlorobenzene	mg/kg	220	RSL																																			0.028	U	0.028	U	0.021	U						
	1,3-Dichlorobenzene	mg/kg	530	R9																																			0.028	U J	0.028	U J	0.02	U						
	1,4-Dichlorobenzene	mg/kg	24	RSL																																			0.028	U	0.028	U	0.019	U						
	2,4- Dichlorophenol	mg/kg	180	RSL																																			0.028	U	0.028	U	0.12	U						
	2,4- Dimethylphenol	mg/kg	1,200	RSL																																			0.082	U	0.082	U	0.1	U						
	2,4- Dinitrophenol	mg/kg	120	RSL																																			0.082	U J	0.082	U J	0.27	U						
	2,4- Dinitrotoluene	mg/kg	16	RSL																																			0.028	U	0.028	U	0.024	U						
	2,4,5-Trichlorophenol	mg/kg	6,100	RSL																																			0.028	U	0.028	U	0.13	U						
	2,4,6- Trichlorophenol	mg/kg	440	RSL																																			0.082	U	0.082	U	0.13	U						
	2,6- Dinitrotoluene	mg/kg	61	RSL																																			0.028	U	0.028	U	0.024	U						
	2-Chloronaphthalene	mg/kg	6,300	RSL																																			0.0034	U	0.0034	U	0.023	U						
	2-Chlorophenol	mg/kg	390	RSL																																			0.028	U	0.028	U	0.34	U						
	2-Methylnaphthalene	mg/kg	2,378	RFA																																			0.045		0.074		0.052	J	26.5						
	2-Methylphenol	mg/kg	3,100	R9																																			0.082	U	0.082	U	0.43	U						
	2-Nitroaniline	mg/kg	6,100	RSL																																			0.028	U	0.028	U	0.023	U						
	2-Nitrophenol	mg/kg	NA	NA																																			0.028	U	0.028	U	0.28	U						
	3 & 4 Methylphenol	mg/kg	NA	NA																																			0.082	U	0.082	U	0.66	U						
	3,3'-Dichlorobenzidine	mg/kg	11	RSL																																			0.082	U J	0.082	U J	0.15	U						
	3-Nitroaniline	mg/kg	NA	NA																																			0.082	U J	0.082	U J	0.022	U						
	4,6-Dinitro-2-methylphenol	mg/kg	NA	NA																																			0.082	U J	0.082	U J	0.27	U						
	4-Bromophenyl phenyl ether	mg/kg	NA	NA																																			0.028	U	0.028	U	0.025	U						
	4-Chloro-3-methylphenol	mg/kg	NA	NA																																			0.028	U	0.028	U	0.39	U						
	4-Chloroaniline	mg/kg	NA	NA																																			0.028	R	0.028	R	0.04	U						
	4-Chlorophenyl phenyl ether	mg/kg	NA	NA																																			0.028	U	0.028	U	0.026	U						
	4-Nitroaniline	mg/kg	240	RSL																																			0.028	R	0.028	R	0.03	U						
	4-Nitrophenol	mg/kg	4,756	RFA																																			0.082	U	0.082	U	0.41	U						
Semivolatile Organics	Acenaphthene	mg/kg	3,400	RSL	1.5	D	0.27		0.0034	R	0.0033	U	0.0034	U	0.012		0.003	U	0.0034	U	0.0033	U	0.0034	U	0.0034	U	0.0034	U	0.0034	U	0.0034	U	0.0034	U	0.0034	U	0.0034	U	0.0033	R	0.0034	U	0.0066	J	0.024	U		0.0069		0.082		0.0034	U
	Acenaphthylene	mg/kg	NA	NA	0.0	U	0.01	U	0.0034	R	0.0033	U	0.0034	U	0.055		0.021		0.0034	U	0.0033	U	0.011		0.0034	U	0.0034	U	0.0079		0.0034	U	0.0034	U	0.0034	U	0.0033	R	0.024		0.020		0.03	J	20.4	0.0034	U	0.022		0.0034	U
	Anthracene	mg/kg	22,000	RSL	2.4	J-	0.42	J-	0.0066	J	0.0067	J-	0.0034	U J	0.15	J-	0.052	J-	0.0034	U J	0.0068	J-	0.012	J-	0.0034	U J	0.0034	U J	0.0034	U J	0.031	J-	0.0034	U J	0.0034	U J	0.080	J-	0.046	J-	0.033	J-	0.06	J	29.1	0.0095	J-	0.160	J-	0.0034	U J
	Benzo[a]anthracene	mg/kg	2.21	RFA	3.3	D	0.62		0.01	J-	0.030		0.0083		0.56		0.16		0.0034	U	0.022		0.032		0.0076		0.0034	U	0.0034	U	0.057		0.0034	U	0.0034	U	0.095	J-	0.110		0.087		0.31		72.6	0.034		0.480		0.015	
	Benzo[a]pyrene	mg/kg	0.221	RFA	2.9	D	0.53		0.0094	J-	0.036		0.0095		0.57		0.16		0.0034	U	0.029		0.043		0.014		0.0034	U	0.0034	U	0.060		0.0034	U	0.0034	U	0.077	J-	0.130	M	0.110		0.32		62.1	0.030		0.380		0.013	
	Benzo[b]fluoranthene	mg/kg	2.21	RFA	3.1	D M	0.63	M	0.011	J-	0.066	M	0.017	M	1.10	M	0.31	M	0.0034	U	0.066	M	0.079	M	0.017	M	0.0034	U	0.0034	U	0.140	M	0.0093	M	0.0034	U	0.087	J-	0.270	M	0.250	M	0.69		61.6	0.053	M	0.510	M	0.019	M
	Benzo[g,h,i]perylene	mg/kg	62	R9	1.9	D	0.36		0.0034	R	0.028		0.0082		0.45		0.13		0.0034	U	0.025		0.036	J-	0.017		0.0034	U	0.0034	U	0.049	J-	0.0034	U	0.0034	U	0.095	J-	0.140	J-	0.120	J-	0.14		8.7	0.023	J-	0.220	J-	0.0089	J-
	Benzo[k]fluoranthene	mg/kg	22.1	RFA	1.9	D M	0.32	M	0.007	J-	0.025	M	0.0085	M	0.50	M	0.16	M	0.0034	U	0.018	M	0.046	M	0.007	M	0.0034	U	0.0034	U	0.056	M	0.0034	U	0.0034	U	0.089	J-	0.120	M	0.076	M	0.17		38.6	0.022	M	0.260	M	0.0092	M
	Benzoic acid	mg/kg	240,000	RSL																																			0.340	U J	0.340	U J	0.3	U						
	Benzyl alcohol	mg/kg	6,100	RSL																																			0.028	U	0.028	U	0.084	U						
	bis (2-Chloroisopropyl) ether	mg/kg	29	RSL																																			0.028	U	0.028	U	0.03	U						
	Bis(2-chloroethoxy)methane	mg/kg	1,783	RFA																																			0.028	U	0.028	U	0.023	U						
	Bis(2-chloroethyl)ether	mg/kg	2	RSL																																			0.0034	U	0.0034	U	0.025	U						
	Bis(2-ethylhexyl) phthalate	mg/kg	35	RSL																																			0.130		0.150		0.18	J	16.4						
	Butyl benzyl phthalate	mg/kg	2,600	RSL																																			0.028	U	0.028	U	0.074	U						
	Carbazole	mg/kg	694	RFA																																			0.028	U	0.028	U	0.028	U						
	Chrysene	mg/kg	221	RFA	3.0	D	0.56		0.011	J-	0.051		0.015		0.88		0.23		0.0034	U	0.045		0.059	J-	0.008		0.0034	U	0.0034	U	0.130	J-	0.0034	U	0.0034	U	0.087	J-	0.210	J-	0.140	J-	0.43		58.2	0.036	J-	0.430	J-	0.017	J-
	Dibenz(a,h)anthracene	mg/kg	0.221	RFA	0.38	D	0.069		0.0034	R	0.0033	U	0.0034	U	0.16		0.036		0.0034	U	0.0033	U	0.0034	U	0.0034	U	0.0034	U	0.0034	U	0.013		0.0034	U	0.0034	U	0.0033	R	0.028		0.027		0.086		71.9	0.0034	U	0.065	M	0.0034	U
	Dibenzofuran	mg/kg	1,189	RFA																																			0.018	J	0.020	J	0.024	J	14.8						
	Diethyl phthalate	mg/kg	49,000	RSL																																			0.028	U	0.028	U	0.065	U						
	Dimethyl phthalate	mg/kg	610,000	R9																																			0.028	U	0.028	U	0.064	U						
	Di-n-butyl phthalate	mg/kg	6,100	RSL																																			0.018	J	0.028	U	0.15	J						
	Di-n-octyl phthalate	mg/kg	2,400	R9																																			0.028	U	0.028	U	0.06	U						
	Fluoranthene	mg/kg	2,756	RFA	10.0	D	1.90		0.03	J-	0.041		0.014		0.85		0.19		0.0034	U	0.034		0.059	J-	0.011		0.0034	U	0.0034	U	0.077	J-	0.0072		0.0034	U	0.087	J-	0.250	J-	0.140	J-	0.26		30.7	0.070	J-	1.100	J-	0.033	J-
	Fluorene	mg/kg	7,366	RFA	1.3	D	0.24		0.0034	R	0.0033	U	0.0034	U	0.022		0.0072		0.0034	U	0.0033	U	0.0034	U	0.0034	U	0.0034	U	0.0034	U	0.0034	U	0.0034	U	0.0034	U	0.071	J-	0.0097		0.010		0.025	U		0.0083		0.075		0.0034	U
	Hexachlorobenzene	mg/kg	3	RSL																																			0.0034	U	0.0034	U	0.028	U						
	Hexachlorobutadiene	mg/kg	62	RSL																																			0.028	U	0.028	U	0.063	U						
	Hexachlorocyclopentadiene	mg/kg	370	R9																																			0.028	R	0.028	R	0.053	U						
	Hexachloroethane	mg/kg	350	RSL																																			0.028	U	0.028	U	0.033	U						
	Indeno[1,2,3-cd]pyrene	mg/kg	2.21	RFA	1.6	D	0.30		0.0034	R	0.023		0.0072	M	0.39		0.11		0.0034	U	0.019		0.031	M	0.014		0.0034	U	0.0034	U	0.046		0.0034	U	0.0034	U	0.073	J-	0.100		0.087		0.2		47.9	0.022		0.200		0.0079	
	Isophorone	mg/kg	5,100	RSL																																			0.028	U	0.028	U	0.051	U						
	Naphthalene	mg/kg	3,678	RFA	0.21	D	0.038		0.0034	R	0.0033	U	0.0034	U	0.0034	U	0.0033	U	0.0034	U	0.0033	U	0.01		0.0034	U	0.0034	U	0.0034	U	0.0034	U	0.0034	U	0.0034	U	0.0033	R	0.031		0.056		0.05	J	28.6	0.015		0.020		0.0034	U
	Nitrobenzene	mg/kg	48	RSL																																			0.0034	U	0.0034	U	0.06	U						
	N-Nitrosodi-n-propylamine	mg/kg	1	RFA																																			0.028	U	0.028	U	0.071	U						
	N-Nitrosodiphenylamine	mg/kg	990	R9																																			0.028	U	0.028	U	0.079	U						
	Pentachlorophenol	mg/kg	21	RFA																																			0.082	R	0.082	R	0.24	U						
	Phenanthrene	mg/kg	2,300	R9	9.3	D	1.8		0.027	J-	0.0093		0.0071		0.21		0.045		0.0034	U	0.0096		0.03		0.0034	U	0.0034	U	0.0034	U	0.027		0.0034	U	0.0034	U	0.084	J-	0.110		0.068		0.12		27.8	0.052		0.750		0.027	
	Phenol	mg/kg	18,000	RSL																																			0.028	U	0.028	U	0.16	U						
	Pyrene	mg/kg	2,074	RFA	7.3	D	1.4		0.023	J-	0.038		0.014		0.83		0.23		0.0034	U	0.035		0.057		0.010		0.0034	U	0.0034	U	0.140		0.0034	U	0.0034	U	0.088	J-	0.230		0.140		0.47		60.9	0.057		0.860		0.027	
	Only analyzed for PAHs																																							% RSD Average =				37.6							

See page 7-49 for a list of acronyms and definitions.

Table 7-6-E-1 Ravenna LL 4 Surface and Subsurface Soil Sampling Results: Pesticides and PCBs (1st Data Set)

				Location	RI Discrete Sample Location					
				Sample ID	LL4SS-416M-0001-SO		LL4SS-417M-0001-SO		LL4SS-418M-0001-SO	
				Type Sample	Primary		QC		QA	
				Sample Date	6/27/2011		6/27/2011		6/26/2011	
				Sample Depth	0 - 1		0 - 1		0 - 1	
				Min REC or RSL						
	Parameter	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q
Pesticides and PCBs	4,4'-DDD	mg/kg	20	RSL	0.014	U J	0.0068	U	0.0003	U
	4,4'-DDE	mg/kg	40.8	RFA	0.014	U J	0.0068	U	0.0025	P
	4,4'-DDT	mg/kg	17	RSL	0.014	U J	0.0068	U	0.0072	
	Aldrin	mg/kg	0.8	RFA	0.027	U	0.041	U	0.00051	U
	alpha-BHC	mg/kg	0.9	R9	0.027	U J	0.041	U	0.00061	U
	alpha-Chlordane	mg/kg	NA	NA	0.027	U	0.041	U	0.0003	U
	beta-BHC	mg/kg	7.7	NA	0.027	U	0.041	U	0.00061	U
	Chlordane (Technical)	mg/kg	NA	NA			0		0.0041	U
	delta-BHC	mg/kg	NA	NA	0.027	U Q	0.041	U Q	0.0019	J
	Dieldrin	mg/kg	0.9	RFA	0.014	U	0.0068	U	0.0003	U
	Endosulfan I	mg/kg	370	R9	0.014	U J	0.0068	U	0.0029	P
	Endosulfan II	mg/kg	370	R9	0.027	U	0.014	U	0.00061	J P
	Endosulfan sulfate	mg/kg	370	R9	0.027	U	0.014	U	0.00091	U
	Endrin	mg/kg	17.7	RFA	0.014	U	0.0068	U	0.0046	P
	Endrin aldehyde	mg/kg	NA	NA	0.027	U	0.014	U	0.0011	U
	Endrin ketone	mg/kg	18	R9	0.014	U J	0.0068	U	0.00081	U
	gamma-BHC (Lindane)	mg/kg	NA	NA	0.027	U Q	0.014	U Q	0.00051	U
	gamma-Chlordane	mg/kg	16	R9	0.014	U Q	0.0068	U Q	0.0003	U
	Heptachlor	mg/kg	3.1	RFA	0.027	U	0.014	U	0.0087	P
	Heptachlor epoxide	mg/kg	1.5	RFA	0.027	U	0.014	U	0.00051	U
	Methoxychlor	mg/kg	310	RSL	0.067	U	0.034	U	0.0056	
	Toxaphene	mg/kg	4.4	R9	0.410	U	0.2	U M	0.0051	U
	Aroclor 1016	mg/kg	2	RFA	0.025	U/U H (RE)	0.025	U	0.01	U
	Aroclor 1221	mg/kg	1.4	RSL	0.025	U/U H (RE)	0.025	U	0.02	U
	Aroclor 1232	mg/kg	1.4	RSL	0.025	U/U H (RE)	0.025	U	0.027	U
	Aroclor 1242	mg/kg	2.2	RSL	0.025	U/U H (RE)	0.025	U	0.029	U
	Aroclor 1248	mg/kg	2	RFA	0.025	U/U H (RE)	0.025	U	0.029	U
	Aroclor 1254	mg/kg	2	RFA	0.025	U/U H (RE)	0.025	U	0.023	U
	Aroclor 1260	mg/kg	2	RFA	0.025	U/U H J (RE)	0.025	U	0.012	U

All results were below the RL. No RSDs were calculated.
See page 7-49 for a list of acronyms and definitions.

Table 7-6-E-2 Ravenna LL 4 Surface and Subsurface Soil Sampling Results: Pesticides and PCBs (2nd Data Set)

				Location	RI Discrete Sample Location			
				Sample ID	LL4SS-416M-0001-SO		LL4SS-417M-0001-SO	
				Type Sample	Primary		QC	
				Sample Date	6/27/2011		6/27/2011	
				Sample Depth	0 - 1		0 - 1	
				Min REC or RSL				
	Parameter	Units	Value	REC or RSL	Value	Q	Value	Q
Pesticides and PCBs	4,4'-DDD	mg/kg	20	RSL	0.014	U J	0.0068	U
	4,4'-DDE	mg/kg	40.8	RFA	0.014	U J	0.0068	U
	4,4'-DDT	mg/kg	17	RSL	0.014	R	0.0068	R
	Aldrin	mg/kg	0.8	RFA	0.027	U J	0.041	U J
	alpha-BHC	mg/kg	0.9	R9	0.027	U J	0.041	U J
	alpha-Chlordane	mg/kg	NA	NA	0.027	R	0.041	R
	beta-BHC	mg/kg	7.7	NA	0.027	R	0.041	R
	Chlordane (Technical)	mg/kg	NA	NA			0	
	delta-BHC	mg/kg	NA	NA	0.027	R	0.041	R
	Dieldrin	mg/kg	0.9	RFA	0.014	U	0.0068	U
	Endosulfan I	mg/kg	370	R9	0.014	R	0.0068	R
	Endosulfan II	mg/kg	370	R9	0.027	R	0.014	R
	Endosulfan sulfate	mg/kg	370	R9	0.027	R	0.014	R
	Endrin	mg/kg	17.7	RFA	0.014	U	0.0068	U
	Endrin aldehyde	mg/kg	NA	NA	0.027	R	0.014	R
	Endrin ketone	mg/kg	18	R9	0.014	R	0.0068	R
	gamma-BHC (Lindane)	mg/kg	NA	NA	0.027	R	0.014	R
	gamma-Chlordane	mg/kg	16	R9	0.014	U Q	0.0068	U Q
	Heptachlor	mg/kg	3.1	RFA	0.027	U J	0.014	U J
	Heptachlor epoxide	mg/kg	1.5	RFA	0.027	R	0.014	R
	Methoxychlor	mg/kg	310	RSL	0.067	R	0.034	R
	Toxaphene	mg/kg	4.4	R9	0.410	U	0.2	U M

See page 7-49 for a list of acronyms and definitions.

Table 7-7-A Ravenna LL 12 Surface and Subsurface Soil Sampling Results: Metals

				Location	RI Discrete Sample Locations						RI Discrete Sample Locations			
				Sample ID	LL12SS-300M-0001-SO		LL12SS-301M-0001-SO		LL12SS-302M-0001-SO		% RSD	LL12SS-303M-0001-SO		LL12SS-304M-0001-SO	
				Type Sample	Primary		QC		QA			Primary		Primary	
				Sample Date	7/6/2011		7/6/2011		7/3/2011			6/27/2011		6/27/2011	
				Sample Depth	0 - 1		0 - 1		0 - 1			0 - 1		0 - 1	
				Min REC or RSL											
	Analyte	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q		Value	Q	Value	Q
Metals	Aluminum	mg/kg	34,960	NG	20000	D	24000	D	19500	B	11.7				
	Antimony	mg/kg	136	RFA	0.96	J-	1.4	J	2.7		53.6				
	Arsenic (0-1')	mg/kg	19.8	BKG1	16	J-	12	J-	8.9		28.9	11		11	
	Barium	mg/kg	3,506	NG	79	J-	84	J-	75.4		5.4				
	Beryllium	mg/kg	160	RSL	0.86	J	0.94	D	0.67		16.8				
	Cadmium	mg/kg	109	NG	1	J	1.4	J	0.75		31.2				
	Calcium	mg/kg	NA	NA	17000	D	19000	D	14700	B	12.7				
	Chromium (as Cr-3)	mg/kg	196,942	NG	57	J-	58	J-	150		60.5				
	Cobalt	mg/kg	70.3	NG	7.4	J-	6.7	J-	5.1		18.4				
	Copper	mg/kg	27,138	RFA	440	J-	650	J-	665		21.5				
	Iron	mg/kg	NA	NA	25000		25000		22200		6.7				
	Lead	mg/kg	4,000	RSL	67	J-	110	J-	88.4		24.3				
	Magnesium	mg/kg	NA	NA	4200		4300		3760		7.0				
	Manganese	mg/kg	1,450	BKG1	1200	J-	820	J-	670		30.5				
	Nickel	mg/kg	13,463	RFA	51	J-	54	J-	42.9		11.6				
	Potassium	mg/kg	NA	NA	980		980		1120		7.9				
	Selenium	mg/kg	390	RSL	1.4	J-	1.2	J-	1.5		11.2				
	Silver	mg/kg	3,240	RFA	0.26	J	0.32	J	0.017	U					
	Sodium	mg/kg	NA	NA	110		130		350		67.7				
	Thallium	mg/kg	47.6	RFA	0.099	J	1.3	R	0.84		81.2				
	Vanadium	mg/kg	1,558	RFA	19		21		14.8		17.3				
	Zinc	mg/kg	196,589	RFA	280	J-	340	J-	237	B	18.1				
	Chromium, hexavalent	mg/kg	16.4	NG	0.82	U	0.29	J	2.7	U					
	Mercury	mg/kg	165	RFA	0.088		0.11		0.064		26.3				
							% RSD Average =				25.9				

See page 7-49 for a list of acronyms and definitions.

Table 7-7-B Ravenna LL 12 Surface and Subsurface Soil Sampling Results: Explosives

				Location	RI Discrete Sample Locations						
				Sample ID	LL12SS-300M-0001-SO		LL12SS-301M-0001-SO		LL12SS-302M-0001-SO		% RSD
				Type Sample	Primary		QC		QA		
				Sample Date	7/3/2011		7/6/2011		7/3/2011		
				Sample Depth	0 - 1		0 - 1		0 - 1		
				Min REC or RSL							
	Parameters	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q	
Explosives	1,3,5-Trinitrobenzene	mg/kg	15,280	RFA	0.097	U	0.1	U	0.13	U	
	1,3-Dinitrobenzene	mg/kg	59.4	RFA	0.097	U	0.1	U	0.08	U	
	2,4,6-Trinitrotoluene	mg/kg	211	RFA	0.097	U	0.1	U	0.24	J P	
	2,4-Dinitrotoluene	mg/kg	7.53	RFA	0.097	U	0.1	U	0.08	U	
	2,6-Dinitrotoluene	mg/kg	7.69	RFA	0.097	U	0.1	U	0.07	U	
	2-Amino-4,6-dinitrotoluene	mg/kg	128	RFA	0.097	U	0.1	U	0.05	U	
	2-Nitrotoluene	mg/kg	60.3	RFA	0.097	U	0.1	U	0.09	U	
	3-Nitrotoluene	mg/kg	6.1	RSL	0.097	U	0.1	U	0.07	U	
	4-Amino-2,6-dinitrotoluene	mg/kg	128	RFA	0.097	U	0.1	U	0.07	U	
	4-Nitrotoluene	mg/kg	816	RFA	0.097	U	0.1	U	0.07	U	
	RDX	mg/kg	1,452	NG	0.097	U	0.1	U	0.14	U	
	TETRYL	mg/kg	240	RSL	0.17	J	0.25	PG	0.09	U	
	Nitrobenzene	mg/kg	48	RFA	0.097	U	0.2	J	0.04	U	
	Nitroglycerin	mg/kg	816	RFA	0.24	U	0.25	U	0.5	U	
	HMX	mg/kg	19,090	RFA	0.097	U	0.1	U	0.12	U	
	PETN	mg/kg	NA	NA	0.24	U	0.025	U	0.5	U	
	Nitroguanidine	mg/kg	6,100	RSL	0.04	U	0.04	U	0.06	U	
	Nitrocellulose	mg/kg	NA	NA	2.1	J	2.6	J	22	J	127.5
							% RSD Average =				127.5

See page 7-49 for a list of acronyms and definitions.

Table 7-7-C Ravenna LL 12 Surface and Subsurface Soil Sampling Results: Volatile Organic Compounds

				Location	RI Discrete Sample Locations						
				Sample ID	LL12SS-300V-0001-SO		LL12SS-301V-0001-SO		LL12SS-302V-0001-SO		% RSD
				Type Sample	Primary		QC		QA		
				Sample Date	7/3/2011		7/3/2011		7/3/2011		
				Sample Depth	0 - 1		0 - 1		0 - 1		
				Min REC or RSL							
	Analyte	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q	
Volatile Organics	1,1,1-Trichloroethane	mg/kg	8700	RSL	0.0091	U J	0.007	U J	0.0099	U	
	1,1,2,2-Tetrachloroethane	mg/kg	5.6	RSL	0.023	U J	0.018	U J	0.0059	U	
	1,1,2-Trichloroethane	mg/kg	11	RSL	0.023	U J	0.018	U J	0.0079	U	
	1,1-Dichloroethane	mg/kg	33	RSL	0.023	U J	0.018	U J	0.011	U	
	1,1-Dichloroethene	mg/kg	120	R9	0.023	U J	0.018	U J	0.016	U	
	1,2-Dibromoethane	mg/kg	0.34	RSL	0.023	U J	0.018	U J	0.0099	U	
	1,2-Dichloroethane	mg/kg	4.3	RSL	0.023	U J	0.018	U J	0.012	U	
	1,2-Dichloroethene (total)	mg/kg	NA	NA	0.0075	U J	0.0058	U J			
	1,2-Dichloropropane	mg/kg	8.8	RSL	0.0091	U J	0.007	U J	0.0069	U	
	2-Butanone	mg/kg	22,000	R9	0.091	U J	0.07	U J	0.099	U	
	2-Hexanone	mg/kg	210	RSL	0.046	U J	0.035	U J	0.067	U	
	4-Methyl-2-pentanone	mg/kg	5,300	R9	0.091	U J	0.07	U J	0.081	U	
	Acetone	mg/kg	61,000	RSL	0.18	U J	0.14	U J	0.062	U	
	Benzene	mg/kg	11	RSL	0.023	U J	0.018	U J	0.0049	U	
	Bromochloromethane	mg/kg	8.2	R9	0.023	U J	0.018	U J	0.0079	U	
	Bromodichloromethane	mg/kg	2.7	RSL	0.023	U J	0.018	U J	0.0089	U	
	Bromoform	mg/kg	610	RSL	0.023	U J	0.018	U J	0.0059	U	
	Bromomethane	mg/kg	7.3	RSL	0.046	U J	0.035	U J	0.03	U	
	Carbon disulfide	mg/kg	820	RSL	0.041	J	0.034	J	0.015	U	
	Carbon tetrachloride	mg/kg	6.1	RSL	0.0091	U J	0.007	U J	0.011	U	
	Chlorobenzene	mg/kg	290	RSL	0.0091	U J	0.007	U J	0.0079	U	
	Chloroethane	mg/kg	30	R9	0.091	U J	0.07	U J	0.019	U	
	Chloroform	mg/kg	2.9	RSL	0.023	U J	0.018	U J	0.0089	U	
	Chloromethane	mg/kg	120	RSL	0.023	U J	0.018	U J	0.025	U	
	cis-1,2-Dichloroethene	mg/kg	NA	NA	0.0091	U J	0.007	U J	0.0099	U	
	cis-1,3-Dichloropropene	mg/kg	17	RSL	0.0091	U J	0.007	U J	0.0099	U	
	Dibromochloromethane	mg/kg	6.8	RSL	0.023	U J	0.018	U J	0.0079	U	
	Ethylbenzene	mg/kg	54	RSL	0.0091	U J	0.012	J	0.0079	U	
	Methylene chloride	mg/kg	110	RSL	0.091	U J	0.073	U J	0.039	U Z	
	Styrene	mg/kg	6,300	RSL	0.0091	U J	0.007	U J	0.0059	U	
	Tetrachloroethene	mg/kg	4.8	R9	0.023	U J	0.018	U J	0.0079	U	
	Toluene	mg/kg	5,000	RSL	0.016	J	0.05	J	0.013	J	78.0
	trans-1,2-Dichloroethene	mg/kg	NA	NA	0.023	U J	0.018	U J	0.011	U	
	trans-1,3-Dichloropropene	mg/kg	17	RSL	0.023	U J	0.018	U J	0.0069	U	
	Trichloroethene	mg/kg	0.53	R9	0.023	U J	0.018	U J	0.0099	U	
	Vinyl chloride	mg/kg	0.6	RSL	0.023	U J	0.018	U J	0.014	U	
	Xylene (Total)	mg/kg	630	RSL	0.024	J	0.064	J			
							% RSD Average =				78.0

See page 7-49 for a list of acronyms and definitions.

Table 7-7-D Ravenna LL 12 Surface and Subsurface Soil Sampling Results: Semi-Volatile Organic Compounds

				Location	RI Discrete Sample Location													
				Sample ID	LL12SS-300M-0001-SO		LL12SS-301M-0001-SO		LL12SS-302M-0001-SO		% RSD	LL12SS-303M-0001-SO		LL12SS-304M-0001-SO		LL12SS-305M-0001-SO		LL12SS-306M-0001-SO	
				Type Sample	Primary		QC		QA			Primary		Primary		Primary		Primary	
				Sample Date	7/6/2011		7/6/2011		7/3/2011			6/27/2011		6/27/2011		6/27/2011		6/27/2011	
				Sample Depth (ft)	0 - 1		0 - 1		0 - 1			0 - 1		0 - 1		0 - 1		0 - 1	
				Min REC or RSL															
	Parameter	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q		Value	Q	Value	Q	Value	Q	Value	Q
Semivolatile Organics	1,2- Dichlorobenzene	mg/Kg	1900	RSL	0.35	U J	0.55	U J	0.025	U									
	1,2,4- Trichlorobenzene	mg/Kg	220	RSL	0.35	U J	0.55	U J	0.11	J									
	1,3-Dichlorobenzene	mg/Kg	530	R9	0.35	U J	0.55	U J	0.02	U									
	1,4-Dichlorobenzene	mg/Kg	24	RSL	0.35	U	0.55	U	0.019	U									
	2,4- Dichlorophenol	mg/Kg	180	RSL	0.35	U	0.55	U	0.12	U									
	2,4- Dimethylphenol	mg/Kg	1,200	RSL	1	U	1.6	U	0.1	U									
	2,4- Dinitrophenol	mg/Kg	120	RSL	1	U	1.6	U	0.28	U									
	2,4- Dinitrotoluene	mg/Kg	16	RSL	0.35	U	0.55	U	0.025	U									
	2,4,5-Trichlorophenol	mg/Kg	6,100	RSL	0.35	U J	0.55	U J	0.13	U									
	2,4,6- Trichlorophenol	mg/Kg	440	RSL	1	U J	1.6	U J	0.13	U									
	2,6- Dinitrotoluene	mg/Kg	61	RSL	0.35	U	0.55	U	0.025	U									
	2-Chloronaphthalene	mg/Kg	6,300	RSL	0.042	U	0.068	U	0.024	U									
	2-Chlorophenol	mg/Kg	390	RSL	0.35	U	0.55	U	0.35	U									
	2-Methylnaphthalene	mg/Kg	2,378	RFA	0.53	D	0.72	D	0.68		15.6								
	2-Methylphenol	mg/Kg	3,100	R9	1	U	1.6	U	0.43	U									
	2-Nitroaniline	mg/Kg	6,100	RSL	1	U	0.55	U	0.024	U									
	2-Nitrophenol	mg/Kg	NA	NA	0.35	U	0.55	U	0.29	U									
	3 & 4 Methylphenol	mg/Kg	NA	NA	1	U	1.6	U	0.66	U									
	3,3'-Dichlorobenzidine	mg/Kg	11	RSL	1	U	1.6	U	0.15	U									
	3-Nitroaniline	mg/Kg	NA	NA	1	U	1.6	U	0.022	U									
	4,6-Dinitro-2-methylphenol	mg/Kg	NA	NA	1	U	1.6	U	0.28	U									
	4-Bromophenyl phenyl ether	mg/Kg	NA	NA	0.35	U	0.55	U	0.026	U									
	4-Chloro-3-methylphenol	mg/Kg	NA	NA	0.35	U	0.55	U	0.39	U									
	4-Chloroaniline	mg/Kg	NA	NA	0.35	U	0.55	U	0.04	U									
	4-Chlorophenyl phenyl ether	mg/Kg	NA	NA	0.35	U	0.55	U	0.027	U									
	4-Nitroaniline	mg/Kg	240	RSL	0.35	U	0.55	U	0.031	U									
	4-Nitrophenol	mg/Kg	4,756	RFA	1	U	1.6	U	0.41	U									
	Acenaphthene	mg/Kg	3,400	RSL	0.57	D	0.75	D	0.57		16.5	0.63	D	3.8	J	0.28		0.089	
	Acenaphthylene	mg/Kg	NA	NA	0.28	D	0.6	D	0.18		62.1	0.82	D	0.34	D	0.044		0.017	
	Anthracene	mg/Kg	22,000	RSL	2.3	J-	3.7	J-	2		34.0	3.6	D	10	J	0.75		0.31	
	Benzo[a]anthracene	mg/Kg	2.21	RFA	5	J-	8.3	J-	5.5		28.4	9.7	D	19	J	1.6		0.87	
	Benzo[a]pyrene	mg/Kg	0.221	RFA	4.5	J-	6.8	J-	4.3		26.7	7.7	D	15	J	0.93		0.67	
	Benzo[b]fluoranthene	mg/Kg	2.21	RFA	5.2	J-	8.5	J-	7.7		24.1	11	D	19	J	2.4		0.91	M
	Benzo[g,h,i]perylene	mg/Kg	62	R9	2.6	J-	3.8	J-	1.5		43.7	4.3	D	8.7	J-	0.74		0.45	
	Benzo[k]fluoranthene	mg/Kg	22.1	RFA	3.6	J-	4.4	J-	1.4		49.6	5.4	D	8.5	J	0.3		0.4	M
	Benzoic acid	mg/Kg	240,000	RSL	4.3	U	6.8	U	0.3	U									
	Benzyl alcohol	mg/Kg	6,100	RSL	0.35	U	0.55	U	0.085	U									
	bis (2-Chloroisopropyl) ether	mg/Kg	29	RSL	0.35	U	0.55	U	0.031	U									
	Bis(2-chloroethoxy)methane	mg/Kg	1,783	RFA	0.35	U	0.55	U	0.024	U									
	Bis(2-chloroethyl)ether	mg/Kg	2	RSL	0.042	U	0.068	U	0.026	U									
	Bis(2-ethylhexyl) phthalate	mg/Kg	35	RSL	0.35	U	0.55	U	0.32										
	Butyl benzyl phthalate	mg/Kg	2,600	RSL	0.35	U	0.55	U	0.075	U									
	Carbazole	mg/Kg	694	RFA	0.68	D	0.98	J	0.81		18.3								
	Chrysene	mg/Kg	221	RFA	5.4	J-	8.1	J-	4.7		29.6	10	D	16	J	1.5		0.69	
	Dibenz(a,h)anthracene	mg/Kg	0.221	RFA	0.75	D	0.96	D	1.2		23.2	1.4	D	2.6	D J	0.014	U	0.14	
	Dibenzofuran	mg/Kg	1,189	RFA	0.45	J	0.66	J	0.5		20.4								
	Diethyl phthalate	mg/Kg	49,000	RSL	0.35	U	0.55	U	0.065	U									
	Dimethyl phthalate	mg/Kg	610,000	R9	0.35	U	0.55	U	0.064	U									
	Di-n-butyl phthalate	mg/Kg	6,100	RSL	0.35	U	0.55	U	0.081	U									
	Di-n-octyl phthalate	mg/Kg	2,400	R9	0.35	U	0.55	U	0.06	U									
	Fluoranthene	mg/Kg	2,756	RFA	11	J-	16	J-	11		22.8	18	D	42	J	3.5		1.6	
	Fluorene	mg/Kg	7,366	RFA	0.74	J-	0.88	J-	0.7		12.2	0.88	D	4.1	J+	0.31		0.098	
	Hexachlorobenzene	mg/Kg	3	RSL	0.042	U	0.068	U	0.029	U									
	Hexachlorobutadiene	mg/Kg	62	RSL	0.35	U J	0.55	U J	0.063	U									
	Hexachlorocyclopentadiene	mg/Kg	370	R9	0.35	U J	0.55	U J	0.053	U									
	Hexachloroethane	mg/Kg	350	RSL	0.35	U	0.55	U	0.034	U									
	Indeno[1,2,3-cd]pyrene	mg/Kg	2.21	RFA	2.6	J-	3.7	J-	2.3		25.7	4	D	8.7	J-	0.72		0.41	
	Isophorone	mg/Kg	5,100	RSL	0.35	U	0.55	U	0.051	U									
	Naphthalene	mg/Kg	3,678	RFA	0.44	D	0.54	D	0.6		15.3	0.23	D	0.64	J	0.37		0.091	
	Nitrobenzene	mg/Kg	48	RSL	0.042	U	0.068	U	0.06	U									
	N-Nitrosodi-n-propylamine	mg/Kg	1	RFA	0.35	U	0.55	U	0.072	U									
	N-Nitrosodiphenylamine	mg/Kg	990	R9	0.35	U	0.55	U	0.051	U									
	Pentachlorophenol	mg/Kg	21	RFA	1	U	1.6	U	0.25	U									
	Phenanthrene	mg/Kg	2,300	R9	6.4	J-	8.7	J-	6.4		18.5	7.9	D	30	J+	2.6		0.94	
	Phenol	mg/Kg	18,000	RSL	0.35	U	0.55	U	0.16	U									
	Pyrene	mg/Kg	2,074	RFA	9	J-	13	J-	9.3		21.4	15	D	33	J	2.8		1.3	
	Only analyzed for PAHs						% RSD Average =				26.7								

See page 7-49 for a list of acronyms and definitions.

Table 7-7-E-1 Ravenna LL 12 Surface and Subsurface Soil Sampling Results: Pesticides and PCBs (1st Data Set)

			Location	RI Discrete Sample Locations					
			Sample ID	LL12SS-300M-0001-SO		LL12SS-301M-0001-SO		LL12SS-302M-0001-SO	
			Type Sample	Primary		QC		QA	
			Sample Date	7/6/2011		7/6/2011		7/3/2011	
			Sample Depth	0 - 1		0 - 1		0 - 1	
			Min REC or RSL						
	Parameter	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q
Pesticides and PCBs	4,4'-DDD	mg/kg	20	RSL	0.034	U M	0.034	U	0.0006	U
	4,4'-DDE	mg/kg	40.8	RFA	0.034	U M	0.034	U	0.031	
	4,4'-DDT	mg/kg	17	RSL	0.034	U	0.034	U	0.001	U
	Aldrin	mg/kg	0.8	RFA	0.068	U	0.068	U	0.001	U
	alpha-BHC	mg/kg	0.9	R9	0.068	U Q	0.068	U Q	0.0012	U
	alpha-Chlordane	mg/kg	NA	NA	0.068	U	0.068	U	0.0006	U
	beta-BHC	mg/kg	7.7	NA	0.068	U Q	0.068	U Q	0.0012	U
	Chlordane (Technical)		NA	NA					0.0082	U
	delta-BHC	mg/kg	NA	NA	0.068	U	0.068	U	0.0006	U
	Dieldrin	mg/kg	0.9	RFA	0.034	U	0.034	U	0.0006	U
	Endosulfan I	mg/kg	370	R9	0.034	U	0.034	U M	0.014	
	Endosulfan II	mg/kg	370	R9	0.068	U	0.068	U	0.0006	U P
	Endosulfan sulfate	mg/kg	370	R9	0.068	U	0.068	U	0.0018	U
	Endrin	mg/kg	17.7	RFA	0.034	U	0.034	U	0.03	P
	Endrin aldehyde	mg/kg	NA	NA	0.068	U	0.068	J D	0.029	P
	Endrin ketone	mg/kg	18	R9	0.08	J D	0.13	D	0.0016	U
	gamma-BHC	mg/kg	NA	NA	0.068	U Q	0.068	U Q	0.0001	U
	gamma-Chlordane	mg/kg	16	R9	0.034	U Q	0.071	J D Q	0.0006	U
	Heptachlor	mg/kg	3.1	RFA	0.068	U	0.068	U	0.071	P
	Heptachlor epoxide	mg/kg	1.5	RFA	0.068	U	0.068	U	0.0082	P
	Lindane		NA	NA					0.001	U
	Methoxychlor	mg/kg	310	RSL	0.17	U	0.17	U	0.0014	U
	Toxaphene	mg/kg	4.4	R9	1	U M	1	U M	0.01	U
	Aroclor 1016	mg/kg	2	RFA	0.13	U	0.13	U	0.01	U
	Aroclor 1221	mg/kg	1.4	RSL	0.13	U	0.13	U	0.021	U
	Aroclor 1232	mg/kg	1.4	RSL	0.13	U	0.13	U	0.028	U
	Aroclor 1242	mg/kg	2.2	RSL	0.13	U	0.13	U	0.03	U
	Aroclor 1248	mg/kg	2	RFA	0.13	U	0.13	U	0.03	U
	Aroclor 1254	mg/kg	2	RFA	0.13	U	0.13	U	1.4	
	Aroclor 1260	mg/kg	2	RFA	0.77	D	0.93	D	0.0120	U

See page 7-49 for a list of acronyms and definitions.
NT= Not Tested

Table 7-7-E-2 Ravenna LL 12 Surface and Subsurface Soil Sampling Results: Pesticides and PCBs (2nd Data Set)

			Location	RI Discrete Sample Locations				
			Sample ID	LL12SS-300M-0001-SO		LL12SS-301M-0001-SO		
			Type Sample	Primary		QC		
			Sample Date	7/6/2011		7/6/2011		
			Sample Depth	0 - 1		0 - 1		
			Min REC or RSL					
Parameter		Units	Value	REC or RSL	Value	Q	Value	Q
Pesticides and PCBs	4,4'-DDD	mg/kg	20	RSL	0.034	R	0.034	R
	4,4'-DDE	mg/kg	40.8	RFA	0.034	R	0.034	R
	4,4'-DDT	mg/kg	17	RSL	0.034	R	0.034	R
	Aldrin	mg/kg	0.8	RFA	0.068	R	0.068	R
	alpha-BHC	mg/kg	0.9	R9	0.068	R	0.068	R
	alpha-Chlordane	mg/kg	NA	NA	0.068	R	0.068	R
	beta-BHC	mg/kg	7.7	NA	0.068	R	0.068	R
	Chlordane (Technical)		NA	NA				
	delta-BHC	mg/kg	NA	NA	0.068	R	0.068	R
	Dieldrin	mg/kg	0.9	RFA	0.034	R	0.034	R
	Endosulfan I	mg/kg	370	R9	0.034	R	0.034	R
	Endosulfan II	mg/kg	370	R9	0.068	R	0.068	R
	Endosulfan sulfate	mg/kg	370	R9	0.068	R	0.068	R
	Endrin	mg/kg	17.7	RFA	0.034	R	0.034	R
	Endrin aldehyde	mg/kg	NA	NA	0.068	R	0.068	R
	Endrin ketone	mg/kg	18	R9	0.08	J	0.13	J
	gamma-BHC	mg/kg	NA	NA	0.068	R	0.068	R
	gamma-Chlordane	mg/kg	16	R9	0.034	R	0.071	J
	Heptachlor	mg/kg	3.1	RFA	0.068	R	0.068	R
	Heptachlor epoxide	mg/kg	1.5	RFA	0.068	R	0.068	R
	Methoxychlor	mg/kg	310	RSL	0.17	R	0.17	R
	Toxaphene	mg/kg	4.4	R9	1	R	1	R

See page 7-49 for a list of acronyms and definitions.
NT= Not Tested

Table 7-8-A Charlestown Sand and Gravel Quarry Surface Soil Sampling Results: Metals

				Location	Charlestown Sand and Gravel Quarry						
				Sample ID	CHASS-001M-0001-SO		CHASS-002M-0001-SO		CHASS-003M-0001-SO		% RSD
				Type Sample	Primary		QC		QA		
				Sample Date	6/29/2011		6/29/2011		6/29/2011		
				Sample Depth	0 - 1		0 - 1		0 - 1		
				Min REC or RSL							
	Analyte	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q	
Metals	Aluminum	mg/kg	34,960	NG	4900		4700		4390	B	5.5
	Antimony	mg/kg	136	RFA	0.062	J	0.059	J	0.29	J	96.7
	Arsenic	mg/kg	19.8	BKG1	8.1		8.4		7.8		3.7
	Barium	mg/kg	3,506	NG	27		28		25.3		5.1
	Beryllium	mg/kg	160	RSL	0.28		0.28		0.23		11.0
	Cadmium	mg/kg	109	NG	0.042	J	0.052	J	0.006	U	
	Calcium	mg/kg	NA	NA	640		630		652	B	1.7
	Chromium (as Cr-3)	mg/kg	196,942	NG	11		9.8		13.2		15.2
	Cobalt	mg/kg	70.3	NG	5.2		4.7		4.4		8.5
	Copper	mg/kg	27,138	RFA	13	J-	13	J-	15.5		10.4
	Iron	mg/kg	NA	NA	15000		15000		15400		1.5
	Lead	mg/kg	4,000	RSL	8.3		8.2		8.3		0.7
	Magnesium	mg/kg	NA	NA	1300		1200		1130		7.1
	Manganese	mg/kg	1,450	BKG1	220		220		247		6.8
	Nickel	mg/kg	13,463	RFA	14		13		11.8		8.5
	Potassium	mg/kg	NA	NA	590		540		298		32.8
	Selenium	mg/kg	390	RSL	0.75		0.7		0.51	B	19.4
	Silver	mg/kg	3,240	RFA	0.049	U	0.046	U	0.017	U	
	Sodium	mg/kg	NA	NA	27	J	24	J	175		114.6
	Thallium	mg/kg	47.6	RFA	0.099	J	0.088	J	0.28	J	69.3
	Vanadium	mg/kg	1,558	RFA	10		9.7		8		11.7
	Zinc	mg/kg	196,589	RFA	40		42		40.4	B	2.6
	Chromium, hexavalent	mg/kg	16.4	NG	0.32	J	0.81	U	2.6	U	
	Mercury	mg/kg	165	RFA	0.02	J	0.017	J	0.013		21.1
									% RSD Average =		21.6

See page 7-49 for a list of acronyms and definitions.

Table 7-8-B Charlestown Sand and Gravel Quarry Surface Soil Sampling Results: Explosives

				Location	Charlestown Sand and Gravel Quarry					
				Sample ID	CHASS-001M-0001-SO		CHASS-002M-0001-SO		CHASS-003M-0001-SO	
				Type Sample	Primary		QC		QA	
				Sample Date	6/29/2011		6/29/2011		6/29/2011	
				Sample Depth	0 - 1		0 - 1		0 - 1	
				Min REC or RSL						
	Parameters	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q
Explosives	1,3,5-Trinitrobenzene	mg/kg	15,280	RFA	0.1	U J	0.098	U J	0.13	U
	1,3-Dinitrobenzene	mg/kg	59.4	RFA	0.1	U J	0.098	U J	0.08	U
	2,4,6-Trinitrotoluene	mg/kg	211	RFA	0.1	U J	0.098	U J	0.09	U
	2,4-Dinitrotoluene	mg/kg	7.53	RFA	0.1	U J	0.098	U J	0.08	U
	2,6-Dinitrotoluene	mg/kg	7.69	RFA	0.1	U J	0.098	U J	0.07	U
	2-Amino-4,6-dinitrotoluene	mg/kg	128	RFA	0.1	U J	0.098	U J	0.05	U
	2-Nitrotoluene	mg/kg	60.3	RFA	0.1	U J	0.098	U J	0.09	U
	3-Nitrotoluene	mg/kg	6.1	RSL	0.1	U J	0.098	U J	0.07	U
	4-Amino-2,6-dinitrotoluene	mg/kg	128	RFA	0.1	U J	0.098	U J	0.07	U
	4-Nitrotoluene	mg/kg	816	RFA	0.1	U J	0.098	U J	0.07	U
	RDX	mg/kg	1,452	NG	0.1	U J	0.098	U J	0.14	U
	Tetryl	mg/kg	240	RSL	0.25	U J	0.098	U J	0.09	U
	Nitrobenzene	mg/kg	48	RFA	0.1	U J	0.098	U J	0.04	U
	Nitroglycerin	mg/kg	816	RFA	0.25	U J	0.24	U J	0.5	U
	HMX	mg/kg	19,090	RFA	0.1	U J	0.098	U J	0.12	U
	PETN	mg/kg	NA	NA	0.25	U J	0.24	U J	0.5	U
	Nitroguanidine	mg/kg	6,100	RSL	0.04	U	0.038	U	0.06	U
	Nitrocellulose	mg/kg	NA	NA	2.3	U	2.1	U	13	U

All results were below the RL. No RSDs were calculated.
See page 7-49 for a list of acronyms and definitions.

Table 7-8-C Charlestown Sand and Gravel Quarry Surface Soil Sampling Results: Volatile Organic Compounds

			Location	Charlestown Sand and Gravel Quarry					
			Sample ID	CHASS-001V-0001-SO		CHASS-002V-0001-SO		CHASS-003V-0001-SO	
			Type Sample	Primary		QC		QA	
			Sample Date	6/29/2011		6/29/2011		6/29/2011	
			Sample Depth	0 - 1		0 - 1		0 - 1	
			Min REC or RSL						
	Analyte	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q
Volatile Organics	1,1,1-Trichloroethane	mg/kg	8700	RSL	0.011	U J	0.011	U J	0.011	U
	1,1,2,2-Tetrachloroethane	mg/kg	5.6	RSL	0.027	U J	0.028	U J	0.0063	U
	1,1,2-Trichloroethane	mg/kg	11	RSL	0.027	U J	0.028	U J	0.0084	U
	1,1-Dichloroethane	mg/kg	33	RSL	0.027	U J	0.028	U J	0.012	U
	1,1-Dichloroethene	mg/kg	120	R9	0.027	U J	0.028	U J	0.017	U
	1,2-Dibromoethane	mg/kg	0.34	RSL	0.027	U J	0.028	U J	0.011	U
	1,2-Dichloroethane	mg/kg	4.3	RSL	0.027	U J	0.028	U J	0.013	U
	1,2-Dichloroethene (total)	mg/kg	NA	NA	0.0087	U J	0.0093	U J		
	1,2-Dichloropropane	mg/kg	8.8	RSL	0.011	U J	0.011	U J	0.0074	U
	2-Butanone	mg/kg	22,000	R9	0.11	J	0.11	U J	0.11	U
	2-Hexanone	mg/kg	210	RSL	0.053	U J	0.057	U J	0.072	U
	4-Methyl-2-pentanone	mg/kg	5,300	R9	0.11	U J	0.11	U J	0.087	U
	Acetone	mg/kg	61,000	RSL	0.21	U J	0.23	U J	0.067	U
	Benzene	mg/kg	11	RSL	0.027	U J	0.028	U J	0.0053	U
	Bromochloromethane	mg/kg	8.2	R9	0.027	U J	0.028	U J	0.0084	U
	Bromodichloromethane	mg/kg	2.7	RSL	0.027	U J	0.028	U J	0.0095	U
	Bromoform	mg/kg	610	RSL	0.027	U J	0.028	U J	0.0063	U
	Bromomethane	mg/kg	7.3	RSL	0.053	U J	0.057	U J	0.032	U
	Carbon disulfide	mg/kg	820	RSL	0.027	U J	0.028	U J	0.016	U
	Carbon tetrachloride	mg/kg	6.1	RSL	0.011	U J	0.011	U J	0.012	U
	Chlorobenzene	mg/kg	290	RSL	0.011	U J	0.011	U J	0.0084	U
	Chloroethane	mg/kg	30	R9	0.11	U J	0.11	U J	0.02	U
	Chloroform	mg/kg	2.9	RSL	0.027	U J	0.028	U J	0.0095	U
	Chloromethane	mg/kg	120	RSL	0.027	U J	0.028	U J	0.026	U
	cis-1,2-Dichloroethene	mg/kg	NA	NA	0.011	U J	0.011	U J	0.011	U
	cis-1,3-Dichloropropene	mg/kg	17	RSL	0.011	U J	0.011	U J	0.011	U
	Dibromochloromethane	mg/kg	6.8	RSL	0.027	U J	0.028	U J	0.0084	U
	Ethylbenzene	mg/kg	54	RSL	0.011	U J	0.011	U J	0.0084	U
	Methylene chloride	mg/kg	110	RSL	0.083	J	0.11	U J	0.042	U
	Styrene	mg/kg	6,300	RSL	0.011	U J	0.011	U J	0.0063	U
	Tetrachloroethene	mg/kg	4.8	R9	0.027	U J	0.028	U J	0.0084	U
	Toluene	mg/kg	5,000	RSL	0.027	U J	0.028	U J	0.0074	U
	trans-1,2-Dichloroethene	mg/kg	NA	NA	0.027	U J	0.028	U J	0.012	U
	trans-1,3-Dichloropropene	mg/kg	17	RSL	0.027	U J	0.028	U J	0.0074	U
	Trichloroethene	mg/kg	0.53	R9	0.027	U J	0.028	U J	0.011	U
	Vinyl chloride	mg/kg	0.6	RSL	0.027	U J	0.028	U J	0.015	U
	m & p-Xylene	mg/kg		RSL		U		U	0.019	U
	o-Xylene	mg/kg		RSL		U		U	0.0084	U
	Xylene (Total)	mg/kg	630	RSL	0.032	U J	0.034	U J		U

All results were below the RL. No RSDs were calculated.
See page 7-49 for a list of acronyms and definitions.

Table 7-8-D Charlestown Sand and Gravel Quarry Surface Soil Sampling Results: Semi-Volatile Organic Compounds

			Location		Charlestown Sand and Gravel Quarry					
			Sample ID		CHASS-001M-0001-SO		CHASS-002M-0001-SO		CHASS-003M-0001-SO	
			Type Sample		Primary		QC		QA	
			Sample Date		6/29/2011		6/29/2011		6/29/2011	
			Sample Depth (ft)		0 - 1		0 - 1		0 - 1	
			Min REC or RSL							
	Parameter	Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q
Semivolatile Organics	1,2- Dichlorobenzene	mg/kg	1900	RSL	0.027	U	0.027	U	0.024	U
	1,2,4- Trichlorobenzene	mg/kg	220	RSL	0.027	U	0.027	U	0.021	U
	1,3-Dichlorobenzene	mg/kg	530	R9	0.027	U	0.027	U	0.020	U
	1,4-Dichlorobenzene	mg/kg	24	RSL	0.027	U	0.027	U	0.019	U
	2,4- Dichlorophenol	mg/kg	180	RSL	0.027	U	0.027	U	0.120	U
	2,4- Dimethylphenol	mg/kg	1,200	RSL	0.081	U	0.081	U	0.099	U
	2,4- Dinitrophenol	mg/kg	120	RSL	0.081	U	0.081	U	0.270	U
	2,4- Dinitrotoluene	mg/kg	16	RSL	0.027	U	0.027	U	0.024	U
	2,4,5-Trichlorophenol	mg/kg	6,100	RSL	0.027	U	0.027	U	0.130	U
	2,4,6- Trichlorophenol	mg/kg	440	RSL	0.081	U	0.081	U	0.130	U
	2,6- Dinitrotoluene	mg/kg	61	RSL	0.027	U	0.027	U	0.024	U
	2-Chloronaphthalene	mg/kg	6,300	RSL	0.0033	U	0.003	U	0.023	U
	2-Chlorophenol	mg/kg	390	RSL	0.027	U	0.027	U	0.34	U
	2-Methylnaphthalene	mg/kg	2,378	RFA	0.0033	U	0.0033	U	0.025	U
	2-Methylphenol	mg/kg	3,100	R9	0.081	U	0.081	U	0.42	U
	2-Nitroaniline	mg/kg	6,100	RSL	0.027	U	0.027	U	0.023	U
	2-Nitrophenol	mg/kg	NA	NA	0.027	U	0.027	U	0.28	U
	3 & 4 Methylphenol	mg/kg	NA	NA	0.081	U	0.081	U	0.65	U
	3,3'-Dichlorobenzidine	mg/kg	11	RSL	0.081	U	0.081	U	0.15	U
	3-Nitroaniline	mg/kg	NA	NA	0.081	U	0.081	U	0.022	U
	4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	0.081	U	0.081	U	0.27	U
	4-Bromophenyl phenyl ether	mg/kg	NA	NA	0.027	U	0.027	U	0.025	U
	4-Chloro-3-methylphenol	mg/kg	NA	NA	0.027	U	0.027	U	0.38	U
	4-Chloroaniline	mg/kg	NA	NA	0.027	U	0.027	U	0.039	U
	4-Chlorophenyl phenyl ether	mg/kg	NA	NA	0.027	U	0.027	U	0.026	U
	4-Nitroaniline	mg/kg	240	RSL	0.027	U	0.027	U	0.03	U
	4-Nitrophenol	mg/kg	4,756	RFA	0.081	U	0.081	U	0.4	U
	Acenaphthene	mg/kg	3,400	RSL	0.0033	U	0.0033	U	0.024	U
	Acenaphthylene	mg/kg	NA	NA	0.0033	U	0.0033	U	0.024	U
	Anthracene	mg/kg	22,000	RSL	0.0033	U	0.0033	U	0.024	U
	Benzo[a]anthracene	mg/kg	2.21	RFA	0.0033	U	0.0033	U	0.025	U
	Benzo[a]pyrene	mg/kg	0.221	RFA	0.0033	U	0.0033	U	0.023	U
	Benzo[b]fluoranthene	mg/kg	2.21	RFA	0.0033	U	0.0033	U	0.025	U
	Benzo[g,h,i]perylene	mg/kg	62	R9	0.0033	U	0.0033	U	0.022	U
	Benzo[k]fluoranthene	mg/kg	22.1	RFA	0.0033	U	0.0033	U	0.025	U
	Benzoic acid	mg/kg	240,000	RSL	0.340	UM	0.340	U	0.29	U
	Benzyl alcohol	mg/kg	6,100	RSL	0.027	U	0.027	U	0.083	U
	bis (2-Chloroisopropyl) ether	mg/kg	29	RSL	0.027	U	0.027	U	0.03	U
	Bis(2-chloroethoxy)methane	mg/kg	1,783	RFA	0.027	U	0.027	U	0.023	U
	Bis(2-chloroethyl)ether	mg/kg	2	RSL	0.0033	U	0.0033	U	0.025	U
	Bis(2-ethylhexyl) phthalate	mg/kg	35	RSL	0.080	U	0.081	U	0.087	U
	Butyl benzyl phthalate	mg/kg	2,600	RSL	0.027	U	0.027	U	0.073	U
	Carbazole	mg/kg	694	RFA	0.027	U	0.027	U	0.028	U
	Chrysene	mg/kg	221	RFA	0.0033	U	0.0033	U	0.025	U
	Dibenz(a,h)anthracene	mg/kg	0.221	RFA	0.0033	U	0.0033	U	0.022	U
	Dibenzofuran	mg/kg	1,189	RFA	0.0033	U	0.0033	U	0.024	U
	Diethyl phthalate	mg/kg	49,000	RSL	0.021	J	0.026	J	0.064	U
	Dimethyl phthalate	mg/kg	610,000	R9	0.027	U	0.027	U	0.063	U
	Di-n-butyl phthalate	mg/kg	6,100	RSL	0.018	J	0.022	J	0.09	J
	Di-n-octyl phthalate	mg/kg	2,400	R9	0.027	U	0.027	U	0.059	U
	Fluoranthene	mg/kg	2,756	RFA	0.0033	U	0.0033	U	0.026	U
	Fluorene	mg/kg	7,366	RFA	0.0033	U	0.0033	U	0.025	U
	Hexachlorobenzene	mg/kg	3	RSL	0.0033	U	0.0033	U	0.028	U
	Hexachlorobutadiene	mg/kg	62	RSL	0.027	U	0.027	U	0.062	U
	Hexachlorocyclopentadiene	mg/kg	370	R9	0.027	U J	0.027	U J	0.052	U
	Hexachloroethane	mg/kg	350	RSL	0.027	U	0.027	U	0.033	U
	Indeno[1,2,3-cd]pyrene	mg/kg	2.21	RFA	0.0033	U	0.0033	U	0.023	U
	Isophorone	mg/kg	5,100	RSL	0.027	U	0.027	U	0.05	U
	Naphthalene	mg/kg	3,678	RFA	0.0033	U	0.0033	U	0.021	U
	Nitrobenzene	mg/kg	48	RSL	0.0033	U	0.0033	U	0.059	U
	N-Nitrosodi-n-propylamine	mg/kg	1	RFA	0.027	U	0.027	U	0.07	U
	N-Nitrosodiphenylamine	mg/kg	990	R9	0.027	U	0.027	U	0.077	U
	Pentachlorophenol	mg/kg	21	RFA	0.081	U	0.081	U	0.24	U
	Phenanthrene	mg/kg	2,300	R9	0.0033	U	0.0073		0.026	U
	Phenol	mg/kg	18,000	RSL	0.027	U	0.027	UM	0.16	U
	Pyrene	mg/kg	2,074	RFA	0.0033	U	0.0033	U	0.026	U

All results were below the RL. No RSDs were calculated.

See page 7-49 for a list of acronyms and definitions.

Table 7-8-E Charlestown Sand and Gravel Quarry Surface Soil Sampling Results: Pesticides and PCBs

				Location	Charlestown Sand and Gravel Quarry					
				Sample ID	CHASS-001M-0001-SO		CHASS-002M-0001-SO		CHASS-003M-0001-SO	
				Type Sample	Primary		QC		QA	
				Sample Date	6/29/2011		6/29/2011		6/29/2011	
				Sample Depth	0 - 1		0 - 1		0 - 1	
				Min REC or RSL						
	Parameter		Units	Value	REC or RSL	Value	Q	Value	Q	Value	Q
Pesticides and PCBs	4,4'-DDD		mg/kg	20	RSL	0.0014	U	0.0014	U	0.0003	U
	4,4'-DDE		mg/kg	40.8	RFA	0.0014	R	0.0014	R	0.0003	U
	4,4'-DDT		mg/kg	17	RSL	0.0014	U	0.0014	U	0.0005	U
	Aldrin		mg/kg	0.8	RFA	0.0027	U	0.0027	U J	0.0005	U
	alpha-BHC		mg/kg	0.9	R9	0.0027	R	0.0027	R	0.0006	U
	alpha-Chlordane		mg/kg	0	NA	0.0027	R	0.0027	R	0.0003	U
	beta-BHC		mg/kg	7.7	NA	0.0027	U	0.0027	U J	0.0006	U
	delta-BHC		mg/kg	NA	NA	0.0027	U	0.0027	U J	0.0003	U
	Dieldrin		mg/kg	0.9	RFA	0.0014	U	0.0014	U J	0.0005	J P
	Endosulfan I		mg/kg	370	R9	0.0014	U	0.0014	U	0.0007	U
	Endosulfan II		mg/kg	370	R9	0.0027	U	0.0027	U	0.0003	U
	Endosulfan sulfate		mg/kg	370	R9	0.0027	U	0.0027	U	0.0009	U
	Endrin		mg/kg	17.7	RFA	0.0014	U	0.0014	U	0.0004	U
	Endrin aldehyde		mg/kg	0	NA	0.0027	U	0.0027	U	0.0011	U
	Endrin ketone		mg/kg	18	R9	0.0014	U	0.0014	U	0.0008	U
	gamma-BHC		mg/kg	NA	NA	0.0027	U	0.0027	U J	0.0005	U
	gamma-Chlordane		mg/kg	16	R9	0.0014	R	0.0014	R	0.0003	U
	Heptachlor		mg/kg	3.1	RFA	0.0027	U	0.0027	U	0.0004	U
	Heptachlor epoxide		mg/kg	1.5	RFA	0.0027	U	0.0027	U	0.0005	U
	Methoxychlor		mg/kg	310	RSL	0.0067	U	0.0067	U	0.0021	JP
	Toxaphene		mg/kg	4.4	R9	0.04	U	0.04	U	0.005	U
	Aroclor 1016		mg/kg	2	RFA	0.025	U	0.025	U	0.01	U
	Aroclor 1221		mg/kg	1.4	RSL	0.025	U	0.025	U	0.02	U
	Aroclor 1232		mg/kg	1.4	RSL	0.025	U	0.025	U	0.027	U
	Aroclor 1242		mg/kg	2.2	RSL	0.025	U	0.025	U	0.029	U
	Aroclor 1248		mg/kg	2	RFA	0.025	U	0.025	U	0.029	U
	Aroclor 1254		mg/kg	2	RFA	0.025	U	0.025	U	0.023	U
	Aroclor 1260		mg/kg	2	RFA	0.025	U	0.025	U	0.012	U

All results were below the RL. No RSDs were calculated.
See page 7-49 for a list of acronyms and definitions.

Legend for Tables 7-3 through 7-7:

*Yellow	Highlighted cells designate exceedances of the adult resident farmer
REC	Receptor
RSL	US EPA Regional Screening Level
NG	National Guard Trainee Land Use
RFA	Resident Farmer Adult Land Use
BKG1	Surface Soil Background – Used for screening against surface soil MI samples and 1' – 3' and 3' – 5' subsurface MI samples
BKG2	Subsurface Soil Background – Used for screening against 5' – 7' subsurface MI samples
RSL	Regional Screening Level
R9	US EPA Region 9 Screening Criteria
NA	Not Analyzed
NT	Not Tested
Primary	Primary Horizontal Subsurface MI Sample
Primary V	Primary Vertical Subsurface MI Sample
QC-H	Quality Control Horizontal Subsurface MI Sample
QC-V	Quality Control Vertical Subsurface MI Sample
QA-H	Quality Assurance Horizontal Subsurface MI Sample
WA-V	Quality Assurance Vertical Subsurface MI Sample
RSD	Relative Standard Deviation
RSD%	Relative Standard Deviation Percent
RPD	Relative Percent Difference
RL	Reporting Limit

ADR Data Qualifiers For Primary and QC Samples

J	Estimated
J-	Estimated Low
J+	Estimated High
R	Rejected
U	Non-detected
UJ	Estimated Contamination
LCS	Laboratory Control Spike Sample
LCSD	Laboratory Control Spike Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
MB	Method Blank

Lab Qualifiers for QA Samples

B	Analyte detected in the associated Method Blank
J	Estimated value
M	Matix spike and/or Matrix Spike Duplicate recovery outside acceptance limits
P	Concentration of analyte differs more than 40% between primary and confirmation analysis
U	Analyte concentration was below detection limit
Y	Replicate/Duplicate precision outside acceptance limits
Z	Specified calibration criteria was not met

Laboratory Data Qualifiers

A	Analyte averaged calibration criteria within acceptable limits
B	Analyte detected in associated Method Blank
D or Dil	Diluted Out
E	No coliform detected in the Total Coliform Analysis
H	Holding time exceeded
J	Estimated value
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptable limits
P or G	Concentration of analyte differs more than 40% between primary and confirmation analysis
U	Analyte concentration was not above the detention level
V	Raised quantitation or reporting limit due to dilution from matrix interference
Y	Replicate duplicate precision outside acceptance limits

8.0 QUALITY CONTROL/ASSURANCE

8.1 ANALYTICAL PROBLEM REPORT

Pesticide Problems

Major discrepancies in the results of pesticide analysis were observed between QC (primary) and QA sample results; False Negative results were reported for primary samples due to dilution of sample extracts in the primary laboratory, TestAmerica Laboratories, Inc. High dilution raised reporting limits above levels of contaminants; some levels of analytes became non-detectable at these levels. TestAmerica did not perform any cleanup steps before analysis of the sample extracts. There were discrepancies between results of both columns indicating problems in addition to inadequate sample preparations. It was thus requested that TestAmerica re-extract and re-analysis samples and it was recommended that they use GPC Method EPA3640 before analysis. TestAmerica re-extracted and re-analyzed sample extracts as recommended on December 8, 2011 and reported results that were more comparable to the QA sample results, please, see Amended, ORGANOCHLORINE PESTICIDES ANALYSIS in the Data Verification Report (DVRR), Appendix G. There were QA samples collected and analyzed at all locations where primary and QC pesticide analyses were performed. In lieu of there being no detections of pesticides in the QA samples above the selected cleanup goals, the evaluation of the potential for pesticide contamination has been adequately addressed.

8.2 DATA VERIFICATION REPORT (DVRR)

A review of the analytical data was conducted and is provided in the Data Verification Report (DVRR), Appendix G. Included in this review were cooler's receipt forms, sample preparation and analysis holding times, and analyses for Volatile Organics, Semivolatile Organics, Polychlorinated Biphenyls (PCB), Organochlorine Pesticides, Explosive Residues, and Metals. The review evaluated method detection limits (MDL), reporting limits, method blanks, laboratory control samples (LCS), duplicate analysis, and matrix spike/matrix spike duplicates (MS/MSD) with relative percent differences (RPD) levels. Comparability of the Primary sample results to those of the QA sample results was summarized in the report. Acceptable precision of the analysis expressed by low levels of RPD was summarized in a table under section 4 of the DVRR. Also, a summary of Non-conformances was summarized in section 5 of the DVRR, See Appendix G.

8.3 MATRIX SPIKE AND MATRIX SPIKE DUPLICATES

Evaluation of the MS/MSDs was conducted for the requested analyses, and all results were accepted per the RPD levels at or below the maximum RPD QC Limits, See Appendix G.

8.4 FIELD QUALITY CONTROL

8.4.1 Equipment Rinsates

Equipment rinsate was collected on July 1 and July 6, 2011. The rinsate samples were submitted to TestAmerica and analyzed for all of the project analytical methods. No contamination was found in these rinsates samples.

8.5 ANALYSES OF TRIPLICATE ISM SAMPLES

To statistically and comprehensively evaluate the total sampling and analysis repeatability for each sample area/decision unit (DU), completely separate replicate ISM samples (collected from a set of systematic random or stratified random locations within the DU that are different from those used for the initial ISM samples) were collected from selected DUs (see Hawaii Dept. of Health, Technical Guidance Manual for the Implementation of the Hawaii State Contingency Plan). The replicate subsurface ISM sample that was sent to the primary laboratory was called the QC or blind duplicate, and the second replicate subsurface ISM sample that was sent to the quality assurance laboratory was called the QA duplicate. The replicates were made up of the same number of aliquots as the initial or primary sample. The replicate samples were prepared and analyzed in the same manner as carried out for the initial sample. Triplicate samples (i.e., initial ISM sample plus two replicates) are preferred and more useful than duplicates for statistical evaluation.

When field sampling is representative, repeat measurements within the same DU would be expected to estimate the average contaminant concentration similarly. Data from replicate sampling are used to determine:

1. The amount of variation from the mean that will be considered when comparing average contaminant concentrations in the sample areas to applicable CUGs and
2. Whether the estimate of average contaminant concentration(s) is adequately representative for the sample areas under investigation.

There are a number of options available for determining what measure of data variation from the mean will be used when evaluating the ISM sample replicate measurements and comparing ISM sample data to the CUGs. The measure of data variation from the mean that is chosen is a function of the DQO for the site investigation. Two common approaches are:

1. Use of the RSD of the triplicate values, or
2. Use of the 95 percent Upper Confidence Level (UCL) of the replicate (triplicate) values.

The field replicate data collected for sample areas are also used to demonstrate that the investigation error for each contaminant is within a reasonable range that supports a conclusion that average contaminant concentrations (e.g., mean plus standard deviation or 95 percent UCL of the mean) are below or above the relevant CUG. In other words, this evaluation addresses the question of whether the data are good enough to make a decision that the average contaminant concentration is below or above the CUG.

Typically, the Relative Standard Deviation (RSD) of the field replicates (triplicates) is used for this evaluation. The RSD is expressed as a percentage and is calculated using the following formula:

$$RSD(\%) = 100 * (\text{Standard Deviation}/\text{Average})$$

The lower the RSD(%) of the replicate data the better the quality of measurement is. Generally, an RSD(%) of approximately 35 or less indicates the amount of estimated total error is within a reasonable range for decision making. However, this evaluation will also depend on the DQO established for the site investigation, as well as how close the contaminant concentrations are to the relevant CUGs. For example, if the RSD(%) of replicates for a contaminant concentration in a sample area was determined to be 40 to 50, but the contaminant concentration was a factor or 3 or 4 below the relevant CUG, then a decision that the contaminant is below levels of concern would still be valid. In general, the closer the contaminant level is to the CUG, the more impact this statistical measure will have on site decisions.

The ISM sampling approach provides averages that approximate a statistically "normal distribution" if the RSD(%) of replicates is reasonably low (this is assumed, for example, when determining the 95 percent UCL of replicate data). The higher the RSD(%), the less confidence there is that the averages approximate a normal distribution, and that the average contaminant concentrations are adequately representative of the sample areas. As the RSD(%) exceeds 50, and if the average sample area concentrations are near the relevant CUGs, there is increasing uncertainty that the data are adequately representative. In this case, additional ISM sampling may be necessary, utilizing a larger number of sample increments and/or larger sample increment masses to obtain a more representative measure of the (very heterogeneous) contaminant concentrations in the sample area. Careful evaluation of the sample processing and analysis procedures would also be indicated. In some cases, grinding samples may serve to reduce the RSD(%) and provide more representative sampling data. As the RSD(%) approaches 100 there is little confidence that the sampling data are useful for decision making.

A summary of the RSDs of the surface soil samples is provided in Table 8-1. The RSDs were only calculated for a given chemical when there were detections in the primary, field duplicate, and blind duplicate samples. An average of the RSDs associated with a given analysis was then calculated. For instance, if there were RSD(%)s of 8, 7, 9, 5, 12, and 13 for metals of a given set of primary, field duplicates, and blind duplicates, then the average RSD(%) for metals for that sample group would be 9. For some chemical groups there were more RSDs typically than for others. For instance, there were generally many more individual RSDs for metals than for PCBs. From Table 8-1 for surface soil:

- Average RSD(%) of 83 individual metal RSDs was 21, with RSD(%)s for individual metals ranging from 2 to 132;
- Average RSD(%) of 15 individual SVOC RSDs was 33~~%~~, with RSD(%)s for individual SVOCs ranging from 6 to 73.

The average and the vast majority of the metals RSDs indicated excellent repeatability. The much larger RSDs for the other contaminant groups reflect averages based on very few detections of generally very low values. In summary, the use of 30 increments for the surface soil samples reported herein provided a good evaluation of the field and laboratory processing.

Summaries of the relative standard deviations, RSD (%)s, of the horizontal subsurface soil ISM samples are provided on Table 8-1 also. The same general trends noted for the surface soil ISM samples were observed with the subsurface soil ISM samples. Thus, from Table 8-1 for horizontal subsurface soil ISM samples:

- Average RSD(%) of 59 individual metal RSDs was 41, with RSDs for individual metals ranging from 3 to 151;
- Average RSD(%) of 5 individual SVOCs was 47, with RSD(%)s for individual SVOC RSDs ranging from 16 to 58;
- Average RSD(%) of 3 individual PCBs was 62, with RSDs for individual PCBs ranging from 15 to 116.

The average RSDs for each chemical are also shown on Table 8-1.

8.6 AUTOMATED DATA REVIEW (ADR)

ADR was developed by Laboratory Data Consultants, Inc. (LDC), Carlsbad, California. The software allows creation of an electronic Quality Assurance Project Plan (eQAPP), and accordingly works with the Electronic Data Deliverable (EDD) delivered by laboratories. A review of the analytical data by the ADR is based on the criteria in the eQAPP that is based on the Quality System Manual (QSM) developed by Department of Defense (DOD), v.4, 2009. The review is conducted on 100% of the data; reports can be generated on the reviewed Sample Delivery Groups (SDG), a summary of the Data Qualifications by the ADR, ADR outliers, LCS/LCSD, MS/MSD, Field Duplicates, Laboratory Duplicates, and Method Contamination. This review was conducted on the primary and QC data provided by the project primary laboratory, TestAmerica, Inc., and the results of this review are provided in Appendix L.

Table 8-1: Characterization Sampling ISM Repeatability (Prudent Surface Soil & Subsurface Soil Horizontal ISM Sampling Below/Adjacent to Footprints of Selected Buildings at LLs- 1, 2, 3, 4)

Approx Date	Group Doing ISM Sampling	Document With ISM Sampling Results	Reason for Sampling/ Sampling Details- Procedures	Load Line	Building Number or Area	Building Characteristic	Sample ID	Type Sample	Sample Date	Sample Depth	Depth Below Surface	Adult Surface or Subsurface Sediment	Chemicals Analyzed	Non-Metals w/Values Greater Than Adult Farmer Clean-up Goals					
														PCB 1254 (mg/kg)	B(a)A (mg/kg)	B(b)F (mg/kg)	B(a)P (mg/kg)	D(a,h)A (mg/kg)	I(1,2,3-cd)P (mg/kg)
7-2011	Prudent	None	Previously Determined Areas of Subsurface Soil Contamination	1	CB-4A	NE-SE Side 20 ft. wide	LL1SB-644M-0101-SO	Primary	7/5/2011	1' - 3'	1' - 3'	Subsurface	Full Suite	0.79	0.021				0.014
							LL1SB-645M-0101-SO	QC						1.4	0.019	0.028	0.019	u	0.013
							LL1SB-646M-0101-SO	QA						0.44	0.026	u	u	u	u
													RSD	55%	16%				
							LL1SB-644M-0102-SO	Primary		3' - 5'	3' - 5'	Subsurface	Full Suite	14	0.13	0.15	0.1	0.018	0.059
							LL1SB-645M-0102-SO	QC						18	0.12	0.13	0.099	0.014	0.058
							LL1SB-646M-0102-SO	QA						14	0.31	0.32	0.25	u	0.13
													RSD	15%	57%	52%	58%		50%
							LL1SB-644M-0103-SO	Primary		5' - 7'	5' - 7'	Subsurface	Full Suite	1.8	u	0.01	0.007	u	u
							LL1SB-645M-0103-SO	QC						0.28	u	u	u	u	u
							LL1SB-646M-0103-SO	QA						0.23	u	u	u	u	u
													RSD	116%					
													AVERAGE RSD = 51 %						
			Collect ISM Sample Over Previous RI Discrete Sample Location	2	RI-165		LL2SS-516M-0001-SO	Primary	7/3/2011	0 - 1'	0 - 1'	Surface	Full Suite	0.67	1.5	1.9	1.6	0.24	0.89
							LL2SS-517M-0001-SO	QC						0.25	1.6	2	1.7	0.21	1
							LL2SS-518M-0001-SO	QA						0.62	1.7	2.3	1.8	0.32	1.1
													RSD	45%	6%	10%	6%	22%	11%
													AVERAGE RSD = 16 %						
			Collect ISM Sample Over Previous RI Discrete Sample Location	3	RI-050	Creek Bed	LL3SD-416M-0001-SO	Primary	7/2/2011	0 - 0.5'	0 - 0.5'	Sediment	Full Suite	0.044	8.6	9.1	6.8	1.2	4.1
							LL3SD-417M-0001-SO	QC						0.086	2.9	3.1	2.5	0.59	1.5
							LL3SD-418M-0001-SO	QA						0.087	4.9	6	3.7	1.1	2.4
													RSD	34%	53%	49%	51%	34%	50%
													AVERAGE RSD = 47 %						
			Collect ISM Sample Over Previous RI Discrete Sample Location	4	RI-045		LL4SS-416M-0001-SO	Primary	7/2/2011	0 - 1'	0 - 1'	Surface	Full Suite	u	0.11	0.27	0.13	0.028	0.1
							LL4SS-417M-0001-SO	QC						u	0.087	0.25	0.11	0.027	0.087
							LL4SS-418M-0001-SO	QA						u	0.31	0.69	0.32	0.086	0.2
													RSD		73%	62%	62%	72%	48%
													AVERAGE RSD = 63 %						
			Collect ISM Sample Over Previous RI Discrete Sample Location	12	RI-059		L12SS-300M-0001-SO	Primary	7/3/2011	0 - 1'	0 - 1'	Surface	Full Suite	u	5	5.2	4.5	0.75	2.6
							L12SS-301M-0001-SO	QC						u	8.3	8.5	6.8	0.96	3.7
							L12SS-302M-0001-SO	QA						1.4	5.5	7.7	4.3	1.2	2.3
													RSD		28%	24%	27%	23%	26%
													AVERAGE RSD = 26 %						
			Evaluate Potential Borrow Source	Charlestown Quarry			CHASS-001M-0001-SO	Primary	6/29/2011	0 - 1'	0 - 1'	Surface	Full Suite	u	u	u	u	u	u
							CHASS-002M-0001-SO	QC						u	u	u	u	u	u
							CHASS-003M-0001-SO	QA						u	u	u	u	u	u
													AVERAGE RSD by CHEMICAL	53%	39%	39%	41%	38%	37%

1

Table 8-1 continued

Load Line	Building Number or Area	Building Characteristic	Sample ID	Type Sample	Sample Date	Sample Depth	Depth Below Surface	Adult Surf or Subsurface Sediment	Chemicals Analyzed	METALS											
										Al (mg/kg)	Sb (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Ca (mg/kg)	Cr (mg/kg)	Cr +6 (mg/kg)	Co (mg/kg)	Cu (mg/kg)	Fe (mg/kg)
1	CB-4A	NE-SE Side 20 ft. wide	LL1SB-644M-0101-SO	Primary	5-Jul	1' - 3'	1' - 3'	Sub	Full Suite	4300	u	5.9	30	0.29	0.47	3900	15	0.71	4.8	10	15000
			LL1SB-645M-0101-SO	QC	2011					4300	u	5.8	39	0.35	3.8	9000	29	u	5.4	22	19000
			LL1SB-646M-0101-SO	QA						3260	0.11	4	21.3	0.21	u	2030	10.9	u	3	10.7	12000
									RSD	15%		20%	29%	25%		72%	52%		28%	47%	23%
			LL1SB-644M-0102-SO	Primary		3' - 5'	3' - 5'	Sub	Full Suite	6600	u	6	60	0.53	0.6	26000	28	u	3.7	12	14000
			LL1SB-645M-0102-SO	QC						6200	u	5.5	71	0.59	0.44	29000	27	u	4	12	13000
			LL1SB-646M-0102-SO	QA						7290	3	4.2	65.3	0.47	u	22500	189	u	3.2	15.1	12900
									RSD	8%		18%	8%	11%		13%	115%		11%	14%	5%
			LL1SB-644M-0103-SO	Primary		5' - 7'	5' - 7'	Sub	Full Suite	2000	u	3.7	17	0.15	0.15	3200	12	u	6.7	4	9200
			LL1SB-645M-0103-SO	QC						3400	u	3.5	23	0.45	0.15	9000	17	u	2.1	4.4	12000
			LL1SB-646M-0103-SO	QA						2370	5.3	2.9	18.6	0.14	0.029	5840	313	u	2.4	8.1	9270
									RSD	28%		12%	16%	71%	64%	48%	151%		69%	41%	16%
									AVERAGE RSD = 41 %												
2	RI-165		LL2SS-516M-0001-SO	Primary	3-Jul	0 - 1'	0 - 1'	Surface	Full Suite	8100	0.15	10	79	0.86	0.27	17000	27	0.45	8.3	19	20000
			LL2SS-517M-0001-SO	QC	2011					11000	0.14	9.2	88	1	0.17	23000	32	u	9.2	18	20000
			LL2SS-518M-0001-SO	QA						9770	0.35	9.9	76.4	0.77	0.09	16600	17.7	u	7.5	22.6	21600
									RSD	15%	56%	4%	8%	13%	51%	19%	28%		10%	12%	4%
									AVERAGE RSD = 24 %												
3	RI-050	Creek Bed	LL3SD-416M-0001-SO	Primary	2-Jul	0 - 0.5'	0 - 0.5'	Sediment	Full Suite	10000	1.4	14	150	1.3	1	15000	26	0.46	21	9.6	24000
			LL3SD-417M-0001-SO	QC	2011					9400	1.5	13	130	1.2	1.1	9800	31	0.45	19	10	25000
			LL3SD-418M-0001-SO	QA						10600	5.9	12.9	158	1.2	0.71	10700	298	u	13.3	18.6	43200
									RSD	6%	88%	5%	10%	5%	22%	23%	132%		22%	40%	35%
									AVERAGE RSD = 33.1 %												
4	RI-045		LL4SS-416M-0001-SO	Primary	2-Jul	0 - 1'	0 - 1'	Surface	Full Suite	5900	0.2	8	67	0.48	0.37	4500	19	1	6.3	14	16000
			LL4SS-417M-0001-SO	QC	2011					7000	u	8.3	70	0.46	0.29	5200	22	1.2	6.6	14	17000
			LL4SS-418M-0001-SO	QA						7630	0.8	8.9	148	0.46	0.22	5310	55.6	u	6.4	18.6	18700
									RSD	23%		5%	48%	2%	26%	9%	63%		2%	17%	8%
									AVERAGE RSD = 16.0 %												
12	RI-059		L12SS-300M-0001-SO	Primary	3-Jul	0 - 1'	0 - 1'	Surface	Full Suite	20000	0.96	16	79	0.86	1	17000	57	u	7.4	440	25000
			L12SS-301M-0001-SO	QC	2011					24000	1.4	12	84	0.94	1.4	19000	58	0.29	6.7	650	25000
			L12SS-302M-0001-SO	QA						19500	2.7	8.9	75.4	0.67	0.75	14700	150	u	5.1	665	22200
									RSD	12%	54%	29%	5%	17%	31%	13%	60%		18%	22%	7%
									AVERAGE RSD = 26 %												
Charlestown Quarry			CHASS-001M-0001-SO	Primary	29-Jun	0 - 1'	0 - 1'	Surface	Full Suite	4900	u	8.1	27	0.28	0.042	640	11	0.32	5.2	13	15000
			CHASS-002M-0001-SO	QC	2011					4700	u	8.4	28	0.28	0.052	630	9.8	u	4.7	13	15000
			CHASS-003M-0001-SO	QA						4390	0.29	7.8	25.3	0.23	u	652	13.2	u	4.4	15.5	15400
								AVG =9.6%	RSD	6%		4%	5%	11%		2%	15%		8%	10%	2%
									AVERAGE RSD BY METAL	14%	66%	12%	16%	19%	39%	25%	77%	N/A	21%	25%	12%

Table 8-1 continued

Load Line	Building Number or Area	Building Characteristic	Sample ID	Type Sample	Sample Date	Sample Depth	Depth Below Surface	Adult Surf or Subsurface Sediment	Chemicals Analyzed	METALS											
										Pb (mg/kg)	Mg (mg/kg)	Mn (mg/kg)	Hg (mg/kg)	Ni (mg/kg)	K (mg/kg)	Se (mg/kg)	Ag (mg/kg)	NA (mg/kg)	Tl (mg/kg)	V (mg/kg)	Zn (mg/kg)
1	CB-4A	NE-SE Side 20 ft. wide	LL1SB-644M-0101-SO	Primary	5-Jul	1' - 3'	1' - 3'	Sub	Full Suite	36	1500	540	u	13	580	0.55	u	31	0.095	8.9	68
			LL1SB-645M-0101-SO	QC	2011					53	1700	600	0.021	20	590	0.44	u	60	0.12	8.1	100
			LL1SB-646M-0101-SO	QA						16.9	945	498	0.012	6.6	339	1.1	u	189	0.65	6.6	33.1
									%RSD	51%	28%	9%		51%	28%	51%		90%	109%	15%	50%
			LL1SB-644M-0102-SO	Primary		3' - 5'	3' - 5'	Sub	Full Suite	70	2700	670	0.039	17	580	0.71	u	91	0.067	8.6	130
			LL1SB-645M-0102-SO	QC						75	2800	690	0.043	17	690	0.65	u	96	0.093	8.8	63
			LL1SB-646M-0102-SO	QA						51.2	2860	504	0.033	13.4	1500	1.4	u	388	0.65	7.4	37.7
									%RSD	19%	3%	16%	13%	13%	54%	45%		89%	122%	9%	62%
			LL1SB-644M-0103-SO	Primary		5' - 7'	5' - 7'	Sub	Full Suite	7.7	580	530	u	9.4	450	0.34	u	26	0.11	4.8	62
			LL1SB-645M-0103-SO	QC						6.3	1800	310	u	10	460	0.42	u	66	0.066	3.9	42
			LL1SB-646M-0103-SO	QA						8	676	223	u	8.1	802	0.31	u	416	0.28	3.7	17.8
									%RSD	12%	67%	45%		11%	35%	16%		127%	74%	14%	55%
2	RI-165		LL2SS-516M-0001-SO	Primary	3-Jul	0 - 1'	0 - 1'	Surface	Full Suite	35	4100	670	0.023	26	1100	1.2	u	160	0.17	15	88
			LL2SS-517M-0001-SO	QC	2011					33	4500	870	0.022	29	1200	1.1	u	170	0.15	14	62
			LL2SS-518M-0001-SO	QA						42.6	4260	613	0.014	21.2	854	0.91	u	482	0.73	12.1	54.6
									%RSD	14%	5%	19%	25%	15%	17%	14%		68%	94%	11%	26%
									AVERAGE RSD = 35.2 %												
3	RI-050	Creek Bed	LL3SD-416M-0001-SO	Primary	2-Jul	0 - 0.5'	0 - 0.5'	Sediment	Full Suite	23	3400	3700	0.3	28	730	1.1	u	110	0.16	23	160
			LL3SD-417M-0001-SO	QC	2011					22	2400	3400	0.33	30	670	1.1	u	69	0.13	23	170
			LL3SD-418M-0001-SO	QA						56.1	2780	4880	0.23	25.4	1040	2.4	u	431	4	20.8	136
									%RSD	58%	18%	20%	18%	8%	24%	49%		97%	156%	6%	11%
									AVERAGE RSD = 33.1 %												
4	RI-045		LL4SS-416M-0001-SO	Primary	2-Jul	0 - 1'	0 - 1'	Surface	Full Suite	22	1900	430	0.024	24	710	0.81	u	38	0.12	12	110
			LL4SS-417M-0001-SO	QC	2011					20	2100	480	0.024	47	730	0.84	u	51	0.16	12	82
			LL4SS-418M-0001-SO	QA						24.7	2100	495	0.028	17.7	713	0.81	u	200	0.57	11.1	112
									%RSD	11%	6%	7%	9%	52%	2%	2%		93%	88%	4%	17%
									AVERAGE RSD = 16.0 %												
12	RI-059		L12SS-300M-0001-SO	Primary	3-Jul	0 - 1'	0 - 1'	Surface	Full Suite	67	4200	1200	0.088	51	980	1.4	u	110	0.099	19	280
			L12SS-301M-0001-SO	QC	2011					110	4300	820	0.11	54	980	1.2	u	130	1.3	21	340
			L12SS-302M-0001-SO	QA						88.4	3760	670	0.064	42.9	1120	1.5	u	350	0.84	14.8	237
									%RSD	24%	7%	30%	26%	12%	8%	11%		68%	81%	17%	18%
									AVERAGE RSD = 23.3 %												
Charlestown Quarry			CHASS-001M-0001-SO	Primary	29-Jun	0 - 1'	0 - 1'	Surface	Full Suite	8.3	1300	220	0.02	14	590	0.75	u	97	u	10	40
			CHASS-002M-0001-SO	QC	2011					8.2	1200	220	0.017	13	540	0.7	u	u	u	9.7	42
			CHASS-003M-0001-SO	QA						8.3	1130	247	0.013	11.8	298	0.51	u	175	0.28	8	40.4
									%RSD	1%	7%	7%	21%	9%	33%	19%				12%	3%
									AVERAGE RSD = 9.6 %												
									AVERAGE RSD BY METAL	24%	18%	19%	19%	21%	25%	26%	N/A	90%	103%	11%	30%

Notes:

B(a)A = Benzo(a)anthracene
B(b)F = Benzo(b)fluoranthene
B(k)F = Benzo(k) fluoranthene
B(a)P = Benzo(a)pyrene
D(a,h)A = Dibenz(a,h)anthracene
N/A = Not applicable

I(1,2,3)P = Indeno(1,2,3-cd)pyrene
Primary = Analyzed at TestAmerica, N. Canton
QC = Quality Control (Analyzed at TestAmerica, N. Canton)
QA = Quality Assurance (Analyzed at CT Laboratories)
u = Not detected

RSD % = (STANDARD DEVIATION OF PRIMARY, QC, QA) / (AVERAGE OF PRIMARY, QC, QA) %

9.0 FINAL SITE ACTIVITES

9.1 FIELD INSPECTION

On July 6, 2011, Prudent personnel inspected the locations where sampling was performed during this project at Load Lines 1, 2, 3, 4, and 12 and removed any remaining materials associated with its sampling work.

9.2 REMOVAL OF ANCILLARY FACILITIES

The temporary sanitary facility and potable water tank were removed on July 7 and 12, 2011, respectively.

9.3 FINAL INSPECTION

After final cleanup and storage of remaining materials, James McGee, Vista Project Manager, inspected the Prudent area at Building 1036 and indicated that the area was acceptable. Yellow caution tape was placed around the Prudent work area.

10.0 SUMMARY & CONCLUSIONS

Thirty-one (31) surface soil ISM samples, three (3) sediment ISM samples, three (3) 1' – 2' subsurface soil ISM samples, and fifty-nine (59) subsurface soil horizontal ISM samples (comprised of 163 individual geoprobe borings) were collected in a period of ten (10) work days. Previously developed/utilized tools and procedures to collect surface soil, wet sediment, and subsurface ISM soil samples worked well. The newly developed procedure utilizing two pointed, half pipe liners to collect surface soil ISM samples over a depth range of 0 – 1.0 ft bgs, with accompanying step probe to collect subsurface samples over a depth range of 1.0 to 2.0 ft bgs worked well.

An evaluation of the achievement of the data quality objectives follows.

DQO #1 – Reduce the amount of remediation required by dividing some large areas that require remediation into smaller areas.

Load Line 1: No levels of explosives above any of the CUGs were found in the subsurface soil ISM samples in the southwestern half of Building CB-4A. Thus, subsurface remediation for explosives is not required for this portion of the building.

Load Line 4: No levels of PAHs above any of the CUGs were found in the subsurface soil ISM samples in the northeastern half of Building G-8. Thus, subsurface remediation for PAHs is not required for this portion of the building.

DQO #2 – Bound previous incremental sampling methodology (ISM) areas that had levels of contamination above RVAAP CUGs. See Table 10-1.

DQO #3 – Conduct incremental sampling methodology (ISM) on soil and sediment sampling at previous discrete sample locations where levels of contamination for specific analytes above the RVAAP cleanup goals were measured, but not removed by previous remediation efforts, and whose inclusion caused the exposure point concentrations for the specific analytes to exceed the associated RVAAP cleanup goals. See Table 10-1.

DQO #4 – Provide analytical documentation that the source of backfill for the project meets OHEPA requirements for approved backfill. The analytical results of the sample from the Charlestown Quarry showed no contaminants levels above CUGs and thus the Charlestown Quarry is an acceptable source of backfill.

DQO #5 – Provide sufficient quality control/quality assurance sampling to evaluate the overall quality of both the field and laboratory sampling procedures. Triplicate surface and subsurface ISM sample results used to evaluate repeatability indicated good repeatability when there were at least ten detections that occurred in the primary, blind duplicate, and QA duplicate samples.

The information provided herein along with all recent (1995 onward) environmental sampling will be utilized to conduct a comprehensive evaluation of the most cost effective means of providing the OHARNG with the least restrictive future land use. This evaluation will be conducted per the Guidance Document for the Evaluation of Land Use Controls at the Ravenna Army Ammunition Plant, Ohio and will subsequently be presented as the Land Use Control Assessment Report.

Table 10-1: Results of Sampling for Bounding Contamination

Load Line	Bldg/ Area	Side(s)	Type Sample	Depth Ft	Chemical	Above CUGs	Bounded ?
1	CB-4	SW-NW	Subsurf	1 - 7	PAHs	No	Yes
	CB-4	NE-SE	Subsurf	1 - 7	PAHs	No	Yes
	CB-4A	SW-NW	Subsurf	1 - 7	PAHs	No	Yes
	CB-4A	NE-SE	Subsurf	1 - 7	[1]FS	Yes	No
2	DB-4	SW-NW	Subsurf	1 - 7	PAHs	No	Yes
	DB-4	NE-SE	Surface	0 - 1	PCBs/PAHs	Yes	No
		NE-SE	Subsurf	1 - 7	PCBs/PAHs	Yes	No
	DB-4A	SW-NW	Subsurf	1 - 7	PAHs	No	Yes
	DB-4A	NE-SE	Subsurf	1 - 7	PAHs	No	Yes
	RI-165		Surface	0 - 1	FS	Yes	No
3	EB-4	SW-NW	Surface	0 - 1	PCBs	No	Yes
			Subsurf	1 - 5	PCBs	No	Yes
	EB-4	NE-SE	Surface	0 - 1	PCBs	No	Yes
		NE-SE	Subsurf	1 - 7	PCBs	Yes	No
	EB-10	SW-NW	Subsurf	1 - 7	As/PAHs	Yes	No
	EB-10	NE-SE	Subsurf	1 - 7	AS/PAHs	Yes	No
	RI-050		Sediment	0 – 0.5	FS	Yes	No
	RI-016		Surface	0 - 1	PAHs	Yes	No
	RI-016		Subsurf	1 - 2	PAHs	No	Yes
	RI-028		Surface	0 – 1	PAHs	Yes	No
	RI-028		Subsurf	1 – 2	PAHs	No	Yes
4	G-8	North	Subsurf	1 - 7	PAHs	Yes	No
	G-8	South	Subsurf	1 - 7	PAHs	Yes	No
	G-8	½ West	Surface	0 - 1	PAHs	No	Yes
	G-8	½ West	Subsurf	1 - 7	PAHs	No	Yes
	G-8	1 West	Surface	0 - 1	PAHs	No	Yes
	G-8	1 West	Subsurf	1 - 7	PAHs	No	Yes
	RI-045		Surface	0 - 1	FS	No	Yes
	RI-158		Surface	0 - 1	PAHs	No	Yes
	RI-034		Surface	0 - 1	PAHs	Yes	No
	RI-034		Subsurf	1 - 2	PAHs	No	Yes
12	RI-059		Surface	0 - 1	FS	Yes	No
	RI-060		Surface	0 - 1	PAHs	Yes	No
	RI-064		Surface	0 – 1	PAHs	Yes	No
	RI-099		Surface	0 - 1	PAHs	Yes	No
	RI-100		Surface	0 - 1	PAHs	Yes	No

Notes:
FS = RVAAP full suite of chemical analysis
Out = Outward or further away from the building than the characterization sample
Ard-Bel = Around and Below the characterization sample

11.0 REFERENCES

1. Bigl, Hewitt, Ramsey. MULTI INCREMENT© TCE Vadose-Zone Investigation, Wiley Inter-Science. Winter 2008.
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5. Prudent, 2010a. Project Management Plan for Sampling & Closure of Load Lines 1, 2, 3, and 4 (RVAAP – 08, 09, 10, 11, and 12) and Other Areas of Concern, August 2010.
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9. SAIC, 2001a. Facility-Wide Sampling and Analysis Plan for Environmental Investigations at the Ravenna Army Ammunition Plant. Ravenna, Ohio. Prepared for the US Army Corps of Engineers, Louisville District. March 2001.
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11. USACE, 2010a. SOW for Sampling and Closure of Load Lines 1, 2, 3, 4, and 12 and Other Areas of Concern at the Ravenna Army Ammunition Plan (RVAAP) Ravenna, Ohio. 17 March 2010
12. USACE, 2010b. Draft Guidance Document for the Evaluation of Land Use Controls at Ravenna Army Ammunition Plant, Ravenna, Ohio. October 2010.
13. URS, 2009, Final Multi-Increment Sampling and Analysis of Soils Below Floor Slabs at RVAAP-9 Load Line 2, RVAAP-10 Load Line 3, and RVAAP-11 Load Line 4 at Ravenna Army Ammunition Plant, Dec 2009
14. URS, 2010, Final Sampling and Analysis of Soils Below Floor Slabs at RVAAP-08 Load Line 1 and Other Building Locations, Sep, 2010

Appendix A – Tailgate Health & Safety Meeting Logs

DAILY TAILGATE MEETING FORM

Site Name & Number: Ravenna LL1-4 + 12 Task 6
Project Number: G-510001
Work Being Performed: set up + pre-field work
Date & Time of Meeting: 6/24/2011, 7:30am
Name of Presenter: Amanda Miller

NOTE: On the initial day of the project, the Project Manager or designee should conduct a visual inspection of the project site prior to the Tailgate Meeting. This inspection should include a review of project site equipment, hazards, and specific job tasks, activities or operations to be performed for that day. These specific items must be covered during the Tailgate Meeting. For subsequent days, any changes to the site or operations must be covered in Tailgate Meeting.

Itemize the Specific Topics Discussed (if more space is needed use the back of this page):

- insects + snakes
- 2x4's + hammer dangers / safety
- grinder safety
- boots for rain
- Decon safety + process
- safe procedures in collecting samples
- brainstorm on area clearing of vegetation
- flat tire solutions
- cell phone info
- radio pickup + protocol
- discussed Hospital route + will show new workers

Participants (if needed, list additional participants on back of this page):

Print Name	Signature	Company	Date
Amanda Miller		Prudent	6/24/2011
Travis Hernandez		Prudent	6/24/2011
Sam Mansy		Prudent	6/24/2011
John Dent		Prudent	6.24.2011

A Tailgate Safety Meeting must be conducted and documented at the beginning of each workday when two or more Prudent employees and/or subcontractor representatives are present on site. Employees, client representatives and subcontractors who arrive at the site after the Tailgate Safety Meeting has been conducted must be briefed on the topics and acknowledge by signing this form.

DAILY TAILGATE MEETING FORM

Site Name & Number: Ravenna LL1-4 + 12
Project Number: 6-510001
Work Being Performed: vegetation removal + flagging
Date & Time of Meeting: 6-25-2011, 8:07am
Name of Presenter: Amanda Miller

NOTE: On the initial day of the project, the Project Manager or designee should conduct a visual inspection of the project site prior to the Tailgate Meeting. This inspection should include a review of project site equipment, hazards, and specific job tasks, activities or operations to be performed for that day. These specific items must be covered during the Tailgate Meeting. For subsequent days, any changes to the site or operations must be covered in Tailgate Meeting.

Itemize the Specific Topics Discussed (if more space is needed use the back of this page):

- insects + snakes
- safety with weed eater - eye + ear protection
- visibility of others - always wear orange/yellow vests
- trips, slips + falls
- 1st Aid kits in vehicles + radio in 1 vehicle
- vehicle positioning - facing exit + leave keys in vehicles

Participants (if needed, list additional participants on back of this page):

Print Name	Signature	Company	Date
Amanda Miller		PRUDENT	6-25-2011
TOMAS HERNANDEZ		PRUDENT	6-25-2011
SAMUS MANSY		PRUDENT	6-25-2011
JOHN JENT		PRUDENT	6-25-2011

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DAILY TAILGATE MEETING FORM

Site Name & Number: RVAAP LL 1-4, 12
Project Number: G-510001
Work Being Performed: Surface sampling
Date & Time of Meeting: 6-26-11 8:02am
Name of Presenter: Amanda

NOTE: On the initial day of the project, the Project Manager or designee should conduct a visual inspection of the project site prior to the Tailgate Meeting. This inspection should include a review of project site equipment, hazards, and specific job tasks, activities or operations to be performed for that day. These specific items must be covered during the Tailgate Meeting. For subsequent days, any changes to the site or operations must be covered in Tailgate Meeting.

Itemize the Specific Topics Discussed (if more space is needed use the back of this page):

- topics from yesterday
- food safety
- UXO briefing from Travis
- sunblock
- wood + hammer safety

Participants (if needed, list additional participants on back of this page):

Print Name	Signature	Company	Date
Amanda Miller		PRUDENT	6-26-2011
John Dent		PRUDENT	6-26-2011
Morgan Helfrich		Prudent	6.26.11
SAMIR MANSY		Prudent	6-26-2011
Travis Steele		PRUDENT	6-26-2011

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DAILY TAILGATE MEETING FORM

Site Name & Number: RVAAP LL1-412
Project Number: 6510001
Work Being Performed: subsurface soil sampling
Date & Time of Meeting: 6/27/2011
Name of Presenter: Amanda

NOTE: On the initial day of the project, the Project Manager or designee should conduct a visual inspection of the project site prior to the Tailgate Meeting. This inspection should include a review of project site equipment, hazards, and specific job tasks, activities or operations to be performed for that day. These specific items must be covered during the Tailgate Meeting. For subsequent days, any changes to the site or operations must be covered in Tailgate Meeting.

Itemize the Specific Topics Discussed (if more space is needed use the back of this page):

- drilling safety
  - hard hats
  - steel-toe boots
  - ear + eye protection
- UXO safety by Travis

Participants (if needed, list additional participants on back of this page):

Print Name	Signature	Company	Date
Amanda Miller		PRUDENT	6-27-2011
Tommy Hoenmoser Jr.		PRUDENT	6-27-2011
Ethan Frantz		Frantz Drilling	"
John Jent		Prudent	"
Morgan Helbach		Prudent	"
SAMIR MANSY		Prudent	" "
Travis Steele		ECC	" "

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DAILY TAILGATE MEETING FORM

Site Name & Number: RVAAP LL-4, 12.

Project Number: 550601

Work Being Performed: Sampling

Date & Time of Meeting:

Name of Presenter: Amanda Miller

NOTE: **On the initial day of the project, the Project Manager or designee should conduct a visual inspection of the project site prior to the Tailgate Meeting. This inspection should include a review of project site equipment, hazards, and specific job tasks, activities or operations to be performed for that day. These specific items must be covered during the Tailgate Meeting. For subsequent days, any changes to the site or operations must be covered in Tailgate Meeting.**

Itemize the Specific Topics Discussed (if more space is needed use the back of this page):

topics discussed yesterday
work to be done today
evening meeting

Participants (if needed, list additional participants on back of this page):

Print Name	Signature	Company	Date
Amanda Miller	Amanda Miller	PRS	
John Dent		" "	" "
David Bogner		Frontz	"
Ethan R. Frontz	Ethan R. Frontz	Frontz Drilling	"
Travis Steele		ECC	" "

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DAILY TAILGATE MEETING FORM

Site Name & Number: RVAAP LL1-4-12
Project Number: G510001
Work Being Performed: Subsurface sampling - soil
Date & Time of Meeting: 6-29-2011 7:45am
Name of Presenter: Amanda Miller

NOTE: On the initial day of the project, the Project Manager or designee should conduct a visual inspection of the project site prior to the Tailgate Meeting. This inspection should include a review of project site equipment, hazards, and specific job tasks, activities or operations to be performed for that day. These specific items must be covered during the Tailgate Meeting. For subsequent days, any changes to the site or operations must be covered in Tailgate Meeting.

Itemize the Specific Topics Discussed (if more space is needed use the back of this page):

- safety near drill rig
- slips, trips & falls
- insects & snakes

Participants (if needed, list additional participants on back of this page):

Print Name	Signature	Company	Date
Amanda Miller		PRUDENT	6/29/2011
Travis Steele		ECC	" "
Ethan Frantz	Ethan R. Frantz	Frantz Drilling	" "
John Jent		PRUDENT	" "
SAMIR MANSY		" "	" "
Morgan Helfrich		Prudent	" "
Tomas Hernandez Jr		PRUDENT	" "

A Tailgate Safety Meeting must be conducted and documented at the beginning of each workday when two or more Prudent employees and/or subcontractor representatives are present on site. Employees, client representatives and subcontractors who arrive at the site after the Tailgate Safety Meeting has been conducted must be briefed on the topics and acknowledge by signing this form.

DAILY TAILGATE MEETING FORM

Site Name & Number: RVAAP LL1-4 #12
Project Number: 651000.1
Work Being Performed: Subsurface Soil Sampling
Date & Time of Meeting: 6-30-2011 7:20am
Name of Presenter: Amanda Miller

NOTE: On the initial day of the project, the Project Manager or designee should conduct a visual inspection of the project site prior to the Tailgate Meeting. This inspection should include a review of project site equipment, hazards, and specific job tasks, activities or operations to be performed for that day. These specific items must be covered during the Tailgate Meeting. For subsequent days, any changes to the site or operations must be covered in Tailgate Meeting.

Itemize the Specific Topics Discussed (if more space is needed use the back of this page):

- drill rig safety
- visibility
- no food + drink in hot zone
- slips, trips + falls
- insects, snakes

Participants (if needed, list additional participants on back of this page):

Print Name	Signature	Company	Date
Amanda Miller		PRUDENT	6/30/2011
Travis Steele		ECC	6/30/2011
Ethan Frantz		Frantz Drilling	6-30-2011
Travis Hammack		Prudent	6-30-2011
Morgan Hetrick		" "	6-30-11
SAMIR MANSY		" "	" "
JOHN JEHT		" "	" "

A Tailgate Safety Meeting must be conducted and documented at the beginning of each workday when two or more Prudent employees and/or subcontractor representatives are present on site. Employees, client representatives and subcontractors who arrive at the site after the Tailgate Safety Meeting has been conducted must be briefed on the topics and acknowledge by signing this form.

DAILY TAILGATE MEETING FORM

Site Name & Number: RVAP LL 1-4+12-
Project Number: 651cx01
Work Being Performed: subsurface soil sampling
Date & Time of Meeting: 7/01/2011 7:30am
Name of Presenter: Amanda Miller

NOTE: On the initial day of the project, the Project Manager or designee should conduct a visual inspection of the project site prior to the Tailgate Meeting. This inspection should include a review of project site equipment, hazards, and specific job tasks, activities or operations to be performed for that day. These specific items must be covered during the Tailgate Meeting. For subsequent days, any changes to the site or operations must be covered in Tailgate Meeting.

Itemize the Specific Topics Discussed (if more space is needed use the back of this page):

- two drill rigs
- no food in hot zone

Participants (if needed, list additional participants on back of this page):

Print Name	Signature	Company	Date
Amanda Miller		PRUDENT	7/01/2011
Travis Steele		ECC	7/1/11
Ethan R. Frantz	Ethan R. Frantz	Frantz Drilling	7-1-11
Richie Shanks		FRANTZ Drilling	7-1-11
SAMIR MANSY		PRUDENT	7-1-11
John Sent		Prudent	7-1-11
Morgan Helfrich		Prudent	7-1-11

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DAILY TAILGATE MEETING FORM

Site Name & Number: RVAAP LC1-4, 12
Project Number: G-510001
Work Being Performed: discrete/surface sampling
Date & Time of Meeting: 7/02/11 7am
Name of Presenter: John Jent

NOTE: On the initial day of the project, the Project Manager or designee should conduct a visual inspection of the project site prior to the Tailgate Meeting. This inspection should include a review of project site equipment, hazards, and specific job tasks, activities or operations to be performed for that day. These specific items must be covered during the Tailgate Meeting. For subsequent days, any changes to the site or operations must be covered in Tailgate Meeting.

Itemize the Specific Topics Discussed (if more space is needed use the back of this page):

Participants (if needed, list additional participants on back of this page):

Print Name	Signature	Company	Date
John Jent		PRUDENT	7-2-2011
SAMIR MANSY		"	" "
Morgan Hetrick		Prudent	7.2.11
Travis Steele		ECC	7/2/11

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DAILY TAILGATE MEETING FORM

Site Name & Number: RVAAP LL1-4+12

Project Number: 651000.1

Work Being Performed: Subsurface sampling - SD1

Date & Time of Meeting: 6-29-2011 7:45am

Name of Presenter: Amanda Miller

NOTE: On the initial day of the project, the Project Manager or designee should conduct a visual inspection of the project site prior to the Tailgate Meeting. This inspection should include a review of project site equipment, hazards, and specific job tasks, activities or operations to be performed for that day. These specific items must be covered during the Tailgate Meeting. For subsequent days, any changes to the site or operations must be covered in Tailgate Meeting.

Itemize the Specific Topics Discussed (if more space is needed use the back of this page):

- safety near drill rig
- slips, trips & falls
- insects & snakes

Participants (if needed, list additional participants on back of this page):

Print Name	Signature	Company	Date
Amanda Miller		PRUDENT	6/29/2011
Travis Steele		ECC	" "
Ethan Frantz		Frantz Drilling	" "
John Jent		PRUDENT	" "
SAMIR MANSY		" "	" "
Morgan Helfrich		Prudent	" "
Tomas Hernandez Sr		PRUDENT	" "

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DAILY TAILGATE MEETING FORM

Site Name & Number: RVAAP LL 1-4+13

Project Number: 651000 1

Work Being Performed: Subsurface soil sampling

Date & Time of Meeting: 7/05/2011 @ 7:45am

Name of Presenter: Amanda Miller

NOTE: On the initial day of the project, the Project Manager or designee should conduct a visual inspection of the project site prior to the Tailgate Meeting. This inspection should include a review of project site equipment, hazards, and specific job tasks, activities or operations to be performed for that day. These specific items must be covered during the Tailgate Meeting. For subsequent days, any changes to the site or operations must be covered in Tailgate Meeting.

Itemize the Specific Topics Discussed (if more space is needed use the back of this page):

- safety w/ methanol
- trips, slips + falls
- drilling safety

Participants (if needed, list additional participants on back of this page):

Print Name	Signature	Company	Date
Amanda Miller		PRUDENT	7/05/2011
Travis Steele		ECC	7/5/2011
Ethan Frantz	Ethan R. Frantz	Frantz Drilling	7-5-2011
Richie Shanks		Frantz Drilling	7-5-2011
Tamas Hrenmar		Pendorm	7-5-2011
John Dent		PRUDENT	7-5-2011
SAMIR MANSY		PRUDENT	7-5-2011
Morgan Hellrich		Prudent	7-5-11

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DAILY TAILGATE MEETING FORM

Site Name & Number: RVAAP LL 1-4 & 12
Project Number: 651000.1
Work Being Performed: Subsurface sampling
Date & Time of Meeting: 7/06/2011 @ 7:15am
Name of Presenter: Amanda Miller

NOTE: On the initial day of the project, the Project Manager or designee should conduct a visual inspection of the project site prior to the Tailgate Meeting. This inspection should include a review of project site equipment, hazards, and specific job tasks, activities or operations to be performed for that day. These specific items must be covered during the Tailgate Meeting. For subsequent days, any changes to the site or operations must be covered in Tailgate Meeting.

Itemize the Specific Topics Discussed (if more space is needed use the back of this page):

- beware of snakes in vehicles!
- slips, trips and falls
- drill rig safety

Participants (if needed, list additional participants on back of this page):

Print Name	Signature	Company	Date
Amanda Miller		PRUDENT	7/06/2011
Travis Steele		ECC	7/06/2011
Richie Shanks		Frontz Drilling	7-6-11
John Jent		PRUDENT	7-6-2011
SAMIR MANSY		PRUDENT	7-6-2011
Morgan Hebrick		Prudent	7-6-11
Ethan Frantz		Frantz Drilling	7-6-11
TOMAS HERNANDEZ		PRUDENT	7-6-11

A Tailgate Safety Meeting must be conducted and documented at the beginning of each workday when two or more Prudent employees and/or subcontractor representatives are present on site. Employees, client representatives and subcontractors who arrive at the site after the Tailgate Safety Meeting has been conducted must be briefed on the topics and acknowledge by signing this form.

Appendix B – Activity Field Logs

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4 Vertical Geoprobe Number (#): 1
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-641M-(0101-0103)-SO

Date: 7/6/2011 (MM/DD/YYYY) Weather: CLEAR 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 8:15 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 16"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

Load Line: 1 Building No.: CB-4 Vertical Geoprobe Number (#): 2
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-641M-(0101-0103)-SO

Date: 7/6/2011 (MM/DD/YYYY) Weather: CLEAR 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 8:20 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 23"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4 Vertical Geoprobe Number (#): 3
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-641M-(0101-0103)-SO

Date: 7/6/2011 (MM/DD/YYYY) Weather: CLEAR 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 8:37 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 16"

Tube B Time: 8:37 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 16"

Tube C Time: 8:42 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 12"

Remarks/Visitors:

Load Line: 1 Building No.: CB-4 Vertical Geoprobe Number (#): 4
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-641M-(0101-0103)-SO

Date: 7/6/2011 (MM/DD/YYYY) Weather: CLEAR 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 8:53 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 21"

Tube B Time: 8:53 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 21"

Tube C Time: 8:58 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 11"

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4 Vertical Geoprobe Number (#): 5
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-641M-(0101-0103)-SO

Date: 7/6/2011 (MM/DD/YYYY) Weather: CLEAR 72 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 9:06 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 24"

Tube B Time: 9:06 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 12"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

Load Line: 1 Building No.: CB-4 Vertical Geoprobe Number (#): 6
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-641M-(0101-0103)-SO

Date: 7/6/2011 (MM/DD/YYYY) Weather: CLEAR 72 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 9:06 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 17"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4 Vertical Geoprobe Number (#): 7
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-641M-(0101-0103)-SO

Date: 7/6/2011 (MM/DD/YYYY) Weather: CLEAR 72 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 8:53 (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 18"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

Load Line: 1 Building No.: CB-4 Vertical Geoprobe Number (#): 8
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-641M-(0101-0103)-SO

Date: 7/6/2011 (MM/DD/YYYY) Weather: CLEAR 72 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 8:34 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 16"

Tube B Time: 8:34 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 16"

Tube C Time: 9:40 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 10"

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4 Vertical Geoprobe Number (#): 1
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-642 M-(0101-0103)-SO

Date: 7/6/2011 (MM/DD/YYYY) Weather: CLEAR 74 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 9:52 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 16"

Tube B Time: 9:52 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 16"

Tube C Time: 10:00 (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 16"

Remarks/Visitors:

Load Line: 1 Building No.: CB-4 Vertical Geoprobe Number (#): 2
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-642 M-(0101-0103)-SO

Date: 7/6/2011 (MM/DD/YYYY) Weather: CLEAR 74 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 9:52 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 19"

Tube B Time: 9:52 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 19"

Tube C Time: 10:00 (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 10 1/2"

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4 Vertical Geoprobe Number (#): 3
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-642M-(0101-0103)-SO

Date: 7/6/2011 (MM/DD/YYYY) Weather: CLEAR 74 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 10:10 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 12"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

Load Line: 1 Building No.: CB-4 Vertical Geoprobe Number (#): 4
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-642M-(0101-0103)-SO

Date: 7/6/2011 (MM/DD/YYYY) Weather: CLEAR 74 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 10:17 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 19"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4 Vertical Geoprobe Number (#): 5
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-642M-(0101-0103)-SO

Date: 7/6/2011 (MM/DD/YYYY) Weather: CLEAR 74 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 10:30 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 22"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

Load Line: 1 Building No.: CB-4 Vertical Geoprobe Number (#): 6
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-642M-(0101-0103)-SO

Date: 7/6/2011 (MM/DD/YYYY) Weather: CLEAR 74 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 10:15 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 16"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4 Vertical Geoprobe Number (#): 7
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-642M-(0101-0103)-SO

Date: 7/6/2011 (MM/DD/YYYY) Weather: CLEAR 74 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 10:25 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 14"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

Load Line: 1 Building No.: CB-4 Vertical Geoprobe Number (#): 8
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-642M-(0101-0103)-SO

Date: 7/6/2011 (MM/DD/YYYY) Weather: CLEAR 74 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 10:33 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 19"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 8
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-644M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 72 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 8:50 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) _____

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 1
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-644M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 72 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 9:00 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 25"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 8
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-645 M-(0101-0103)-M-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 9:02 (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 17"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 1
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-645M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 9:17 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 27"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 8
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-646M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 72 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 9:10 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 20"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 1
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: ~~CLEAR BLUE SKY, 72 °F~~ LL1SB-646M(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: ~~LL1SB-646M(0101-0103)-SO~~ CLEAR BLUE SKY, 72 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 9:18 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 18"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 7
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-644M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 9:20 (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 21"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 2
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-644M-(0101-0103)-SO

Date: 7 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 9:24 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 17"

Tube B Time: 9:24 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 17"

Tube C Time: 9:30 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 12"

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 7
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SO-645M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 72 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: _____ (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) NONE

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) 11

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) 11

Remarks/Visitors: _____

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 2
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SO-645M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 72 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

---

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 9:35 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 21"

Tube B Time: 9:35 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 21"

Tube C Time: 9:35 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 10"

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 7
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-646M-(0101-0103)-S0

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 9:32 (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 27"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 2
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-646M-(0101-0103)-S0

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

---

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 9:40 (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 17"

Tube B Time: 9:40 (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 18"

Tube C Time: 9:52 (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 8"

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 6
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-644M – (0101–0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 72 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 9:44 AM (HH:MM) Depth Range (ft) Drilled: 1–3 Recovery (ft:) 1'24"12"

Tube B Time: 9:44 AM (HH:MM) Depth Range (ft) Drilled: 3–5 Recovery (ft:) 12"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 3
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-644M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 72 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 9:51 AM (HH:MM) Depth Range (ft) Drilled: 1–3 Recovery (ft:) 11"

Tube B Time: 9:51 AM (HH:MM) Depth Range (ft) Drilled: 3–5 Recovery (ft:) 11"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 6
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-645M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 9:50 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 11"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors:

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 3
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-645M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 10:01 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 13"

Tube B Time: 10:01 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 13"

Tube C Time: 10:04 AM (HH:MM) Depth Range (ft) Drilled: 5-7' Recovery (ft:) 13"

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 6
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-646M-(0101-0103)

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 72 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 10:02 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 12"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors:

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 3
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-646M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 72 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 10:10 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 14"

Tube B Time: 10:10 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 14"

Tube C Time: 10:10 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 11"

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 5
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-644M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 10:08 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 26"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 4
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-644M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 10:25 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 18"

Tube B Time: 10:25 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 8'

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 5
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-645M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: _____ (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 20"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 4
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-645M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 10:26 (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 18"

Tube B Time: 10:26 (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 8"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 5
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-646M-(0101-0103)-S0

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR 72 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: _____ (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 23"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 4
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-646M-(0101-0103)-S0

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR 72 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 1027 (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 18"

Tube B Time: 1027 (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 6"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 1
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-643M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR 75 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 1:15 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 20"
Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) _____
Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) _____

Remarks/Visitors:

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 8
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-643M(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR 75 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 1:43 (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 10"
Tube B Time: 1:43 (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 10"
Tube C Time: 1:~~39~~ SM 1:50 (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 8"

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 2
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-643M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR 75 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 1:30 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 12"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors:

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 7
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-643M-(0101-0103)-SO

Date: _____ (MM/DD/YYYY) Weather: CLEAR 75 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 2:25 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 13"

Tube B Time: 2:25 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 6"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 3
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-643M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR 75 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 1:50 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 18"

Tube B Time: ~~1:50~~ (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 9" SM

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 6
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-643M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR 75 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling 11

Tube A Time: 2:30 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 15

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 4
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-643 M-(0101-0103)-S0

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR 75°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 2:10 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 10"

Tube B Time: 2:10 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 10"

Tube C Time: 2:12 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 10"

Remarks/Visitors:

Load Line: 1 Building No.: CB-4 Vertical Geoprobe Number (#): 5
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-643 M-(0101-0103)-S0

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR 75°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 2:28 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 18"

Tube B Time: 2:28 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 9"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 8
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-640M-(0101-0103)-S0

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR 80°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 3:04 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 16"

Tube B Time: 3:04 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 16"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 7
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-640M-(0101-0103)-S0

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR 80°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 3:12 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 12"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: SCB 4A Vertical Geoprobe Number (#): 6
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB640M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR 82°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 3:17 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 6"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors:

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 5
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB640M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR 82°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 3:18 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 14"

Tube B Time: 3:18 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 14"

Tube C Time: 3:29 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 7"

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 4
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-640M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR 83 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 3:44 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 12"

Tube B Time: 3:44 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 12"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 3
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-640M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR 83 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 3:55 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 6"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 2
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-640M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR 83 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 4:07 (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 12"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

Load Line: 1 Building No.: CB-4A Vertical Geoprobe Number (#): 1
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL1SB-640M-(0101-0103)-SO

Date: 7/5/2011 (MM/DD/YYYY) Weather: CLEAR 83 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 4:00 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 18"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 2 Building No.: DB-4 Vertical Geoprobe Number (#): 1
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2SB-512M-(0101-0103)-SO

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 86 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 2:41 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 17"
Tube B Time: 2:41 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 17"
Tube C Time: 2:45 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 13"

Remarks/Visitors:

Load Line: 2 Building No.: DB-4 Vertical Geoprobe Number (#): 2
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2SB-512M-(0101-0103)-SO

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 86 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 2:44 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 16"
Tube B Time: 2:44 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 16"
Tube C Time: 2:47 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 22"

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 2 Building No.: DB-4 Vertical Geoprobe Number (#): 7
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2SB-512M-(0101-0103)-SO

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 86 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 2:54 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 24"

Tube B Time: 2:54 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 24

Tube C Time: 3:00 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 24"

Remarks/Visitors:

Load Line: 2 Building No.: DB-4 Vertical Geoprobe Number (#): 2
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2SB-512M-(0101-0103)-SO

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 86 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 2:57 (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 25"

Tube B Time: 2:57 (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) NONE

Tube C Time: (HH:MM) Depth Range (ft) Drilled: Recovery (ft:) NONE

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 2 Building No.: DB-4 Vertical Geoprobe Number (#): SM 7 3
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2SB-215512-(0101-0103)-SO

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 86°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 3:04 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 25"

Tube B Time: 3:04 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 25"

Tube C Time: ~~3:00 PM~~ 3:21 (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) ~~NONE~~ SM 24"

Remarks/Visitors:

Load Line: 2 Building No.: DB-4 Vertical Geoprobe Number (#): 6
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2SB-512-(0101-0103)-SO

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 86°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 3:10 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 18"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) NONE

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) NONE

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 2 Building No.: DB-4 Vertical Geoprobe Number (#): 5
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2-512 M-(0101-0103)-SO

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 86 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 3:16 (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 22"
Tube B Time: 3:16 (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 22"
Tube C Time: (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 24"

Remarks/Visitors:

Load Line: 2 Building No.: DB-4 Vertical Geoprobe Number (#): 4
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2-512 M-(0101-0103)-SO

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 86 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 3:30 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 25"
Tube B Time: 3:30 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 25"
Tube C Time: 3:34 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 13"

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 12 Building No.: DB-4 Vertical Geoprobe Number (#): 8
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2SB-513M-(0101-0103)-SO

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 76°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 11:35 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 18"

Tube B Time: 11:35 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 18"

Tube C Time: 11:40 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 24"

Remarks/Visitors:

Load Line: 2 Building No.: DB-4 Vertical Geoprobe Number (#): 7
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2SB-513M-(0101-0103)-SO

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 76°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 11:47 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 21"

Tube B Time: 11:47 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 22"

Tube C Time: 11:51 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 24"

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 2 Building No.: DB-4 Vertical Geoprobe Number (#): 6
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2SB-513M-(0101-0103)-SO

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 76°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 12:03 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) SM 26" 16"

Tube B Time: 12:03 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) SM 27" 17"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) NONE

Remarks/Visitors: _____

Load Line: 2 Building No.: DB-4 Vertical Geoprobe Number (#): 5
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2SB-513M-(0101-0103)-SO

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 76°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 12:15 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 19"

Tube B Time: 12:15 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 20"

Tube C Time: 12:19 (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 24"

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 2 Building No.: DB-4 Vertical Geoprobe Number (#): 4
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2 SB-513 M-(0101-0103)-S0

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 80°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 12:30pm (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 18"

Tube B Time: 12:30pm (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 18"

Tube C Time: 12:35pm (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 24"

Remarks/Visitors:

Load Line: 2 Building No.: DB-4 Vertical Geoprobe Number (#): 3
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2 SB-513 M-(0101-0103)-S0

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 80°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 12:46pm (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 8"

Tube B Time: 12:46pm (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) None - hit perched water

Tube C Time: — (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) None

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 2 Building No.: DB-4 Vertical Geoprobe Number (#): 2
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2 SB-513M-(0101-0103)-S0

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 82 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 12:58pm (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 12"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) NONE

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) NONE

Remarks/Visitors: _____

Load Line: 2 Building No.: DB-4 Vertical Geoprobe Number (#): 1
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2 SB-513M-(0101-0103)-S0

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY 82 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 1:12pm (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 18"

Tube B Time: 1:12pm (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 18"

Tube C Time: 1:15pm (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 24"

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 2 Building No.: DB-4A Vertical Geoprobe Number (#): 8
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2SB-515M-(0101-0103)-SO

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY 74°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 9:40 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 15"

Tube B Time: 9:40 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 15"

Tube C Time: 9:45 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 24"

Remarks/Visitors:

Load Line: 2 Building No.: DB-4A Vertical Geoprobe Number (#): 1
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2SB-515M-(0101-0103)-SO

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY 74°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 9:50 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 24"

Tube B Time: 9:50 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 25"

Tube C Time: 9:50 (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 18"

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 2 Building No.: DB-4A Vertical Geoprobe Number (#): 7
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: L2SB-515M-(0101-0103)-SO

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 74°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: _____ (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) SM 13" 26"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) SM 13" NONE

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) NONE

Remarks/Visitors: _____

Load Line: 2 Building No.: DB-4A Vertical Geoprobe Number (#): 2
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: L2SB-515M-(0101-0103)-SO

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 74°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 10:00 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 18"

Tube B Time: 10:00 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 18"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 17"

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 2 Building No.: DB-4A Vertical Geoprobe Number (#): 6
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2SB-515M-(0101-0103)-SO

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 74°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 10:17 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 16"

Tube B Time: 10:17 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 17"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 24"

Remarks/Visitors: _____

Load Line: 2 Building No.: DB-4A Vertical Geoprobe Number (#): 3
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2SB-515M (0101-0103)-SO

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 74°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 10:25 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 24"

Tube B Time: 10:25 A (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 25"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 24"

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 2 Building No.: DB-4A Vertical Geoprobe Number (#): 4
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2SB-515M-(0101-0103)-SO

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 74°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 10:41 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 16"
Tube B Time: 10:41 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 16"
Tube C Time: 10:45 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 24"

Remarks/Visitors:

Load Line: 2 Building No.: DB-4A Vertical Geoprobe Number (#): 5
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2SB-515M-(0101-0103)-SO

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR BLUE SKY, 74°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

---

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 10:37 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 15"
Tube B Time: 10:37 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 16"
Tube C Time: 10:45 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 24"

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 2 Building No.: DB-4A Vertical Geoprobe Number (#): 1
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2SB-514M-(0101-0103)-SO

Date: 6/30/2011 (MM/DD/YYYY) Weather: CLEAR, BLUE SKY, 78°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 3:25 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 20"

Tube B Time: 3:25 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 20"

Tube C Time: 3:35 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 19"

Remarks/Visitors:

Load Line: 2 Building No.: DB-4A Vertical Geoprobe Number (#): 2
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2SB-514M-(0101-0103)-SO

Date: 06/30/2011 (MM/DD/YYYY) Weather: ~~LL2SB-514M-(0101-0103)-SO~~ CLEAR, 78°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 4:15 (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 12"

Tube B Time: 4:15 (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 12"

Tube C Time: 4:07 (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 21"

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 2 Building No.: DB-4A Vertical Geoprobe Number (#): 3
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2SB-SM4 514A (0101-0103)-SO

Date: 6/30/2011 (MM/DD/YYYY) Weather: CLEAR, BLUE SKY, 78°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 4:25 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 26"

Tube B Time: 4:25 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 26"

Tube C Time: 4:34 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 24"

Remarks/Visitors:

Load Line: 2 Building No.: DB-4A Vertical Geoprobe Number (#): SM 4-5
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2SB-514M-(0101-0103)-SO

Date: ~~6/30/2011~~ 7/1/2011 SM (MM/DD/YYYY) Weather: CLEAR, BLUE SKY, 72-78°F SM

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 8:40 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 25"

Tube B Time: 8:40 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 25"

Tube C Time: 8:45 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 24"

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 2 Building No.: DB-4A Vertical Geoprobe Number (#): SH ~~5~~ 4
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2SB-514M(0101-0103)-SO

Date: 6/30/2011 (MM/DD/YYYY) Weather: CLEAR, BLUE SKY, 78°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 4:45 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 25"
Tube B Time: 4:45 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 25"
Tube C Time: 4:51 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 24"

Remarks/Visitors:

Load Line: 2 Building No.: DB-4A Vertical Geoprobe Number (#): 6
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL2SB-514-M(0101-0103)-SO

Date: 7/1/2011 (MM/DD/YYYY) Weather: CLEAR, BLUE SKY, 78°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 8:52 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 25"
Tube B Time: 8:52 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 25"
Tube C Time: 8:55 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 24"

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 3 Building No.: EB-4 Vertical Geoprobe Number (#): 1
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-413M-(0101-0103)-SO

Date: 6/30/2011 (MM/DD/YYYY) Weather: CLEAR, BLUE SKY, 72 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 8:20 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 12"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) NONE

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) NONE

Remarks/Visitors: Three attempts

Load Line: 3 Building No.: EB-4 Vertical Geoprobe Number (#): 2
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-412M-(0101-0103)-SO

Date: 6/30/2011 (MM/DD/YYYY) Weather: CLEAR, BLUE SKY, 72 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 8:30 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 21"

Tube B Time: 8:40 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 8'

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) NONE

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 3 Building No.: EB-4 Vertical Geoprobe Number (#): 3
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-412M-(0101-0103)-SO

Date: 6/30/2011 (MM/DD/YYYY) Weather: CLEAR SKY, 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 8:50 AM / SM 06/30/2011 (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 21"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

Load Line: 3 Building No.: EB-4 Vertical Geoprobe Number (#): 4
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-412M-(0101-0103)-SO

Date: 6/30/2011 (MM/DD/YYYY) Weather: _____

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 9:01 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 25"

Tube B Time: 9:07 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 5"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 3 Building No.: EB-4 Vertical Geoprobe Number (#): 5
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-412 M-(0101-0103)SO

Date: 06/30/2011 (MM/DD/YYYY) Weather: CLEAR, BLUE SKY, 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 9:24 (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 23"

Tube B Time: 9:24 (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 18"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) NONE

Remarks/Visitors: _____

Load Line: 3 Building No.: EB-4 Vertical Geoprobe Number (#): 6
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-412 M-(0101-0103)-SO

Date: 06/30/2011 (MM/DD/YYYY) Weather: CLEAR - BLUE SKY, 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 9:55 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 11"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 3 Building No.: EB-4 Vertical Geoprobe Number (#): 7
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-412M-(0101-0103)-SO

Date: 06/30/2011 (MM/DD/YYYY) Weather: CLEAR, BLUE SKY, 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 10:13 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 30"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) NONE

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) NONE

Remarks/Visitors:

Load Line: 3 Building No.: EB-4 Vertical Geoprobe Number (#): 8
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-412M-(0101-0103)-SO

Date: 6/30/2011 (MM/DD/YYYY) Weather: CLEAR, BLUE SKY, 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 10:27 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 25"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) NONE

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) NONE

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 3 Building No.: EB-4 Vertical Geoprobe Number (#): 1
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-413M-(0101-0103)-SO

Date: 06/30/2011 (MM/DD/YYYY) Weather: CLEAR, BLUE SKY, 71-78 °F SM

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 11:06 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 24"

Tube B Time: 11:08 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 12"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) NONE

Remarks/Visitors: _____

Load Line: 3 Building No.: EB-4 Vertical Geoprobe Number (#): 2
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-413M-(0101-0103)-SO

Date: 06/30/2011 (MM/DD/YYYY) Weather: CLEAR SKY, 72 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 11:31 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 5'

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) NONE

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) NONE

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 3 Building No.: EB-4 Vertical Geoprobe Number (#): 3
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-413M-(0101-0103)-SO

Date: 06/30/2011 (MM/DD/YYYY) Weather: CLEAR, BLUE SKY, 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 11:59 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) SM 19" 14"

Tube B Time: 11:59 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) SM 19" 14"

Tube C Time: 12:01 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 16"

Remarks/Visitors:

Load Line: 3 Building No.: EB-4 Vertical Geoprobe Number (#): 4
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-413M-(0101-0103)-SO

Date: 06/30/2011 (MM/DD/YYYY) Weather: CLEAR, BLUE SKY, 72°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 12:12 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 25"

Tube B Time: 12:12 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 26"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) NONE

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 3 Building No.: EB-4 Vertical Geoprobe Number (#): 5"
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-413M-(0101-0103)-SO

Date: 06/30/2011 (MM/DD/YYYY) Weather: CLEAR, Blue Sky, 78°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 1136 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 31"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

Load Line: 3 Building No.: EB-4 Vertical Geoprobe Number (#): 6"
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-413M-(0101-0103)-SO

Date: 06/30/2011 (MM/DD/YYYY) Weather: CLEAR SKY, 78°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 1:50 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 32"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 3 Building No.: EB-4 Vertical Geoprobe Number (#): 7
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-413M-(0101-0103)-SO

Date: 6/30/2011 (MM/DD/YYYY) Weather: CLEAR SKY, 78°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 1:56 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 32"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors:

Load Line: 3 Building No.: EB-4 Vertical Geoprobe Number (#): 8
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-413M-(0101-0103)-SO

Date: 6/30/2011 (MM/DD/YYYY) Weather: CLEAR, BLUE SKY, 78°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 2:14 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 29"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 3 Building No.: EB-10 Vertical Geoprobe Number (#): 1
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-415M-(0101-0103)-SO

Date: 6/29/2011 (MM/DD/YYYY) Weather: BLUE SKY, 74 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 8:54 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 16"

Tube B Time: 8:54 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 15"

Tube C Time: 9:00 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 12"

Remarks/Visitors: 6' down limit, Two attempts, used 1st borin

Load Line: 3 Building No.: EB-10 Vertical Geoprobe Number (#): 2
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-415M-(0101-0103)-SO

Date: 6/29/2011 (MM/DD/YYYY) Weather: BLUE SKY, 74 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 9:47 (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 18"

Tube B Time: — (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) NONE

Tube C Time: (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) NONE

Remarks/Visitors: Three attempts.

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 3 Building No.: EB-10 Vertical Geoprobe Number (#): 3
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3 SB-415M-(0101-0163) SO

Date: 06/29/2011 (MM/DD/YYYY) Weather: BLUE SKY, 74 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: ~~10:52~~ SM 10:25 (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) ~~18"~~ SM ~~18" 22"~~ SM

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) NONE

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) NONE

Remarks/Visitors: Three attempts (1-3)

Load Line: 3 Building No.: EB-10 Vertical Geoprobe Number (#): 4
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3 SB-415M-(0101-0163) SO

Date: 06/29/2011 (MM/DD/YYYY) Weather: BLUE SKY, 74 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 10:52 (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 22"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 3 Building No.: EB-10 Vertical Geoprobe Number (#): 5
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-415M-(0101-0103)SC

Date: 06/29/2011 (MM/DD/YYYY) Weather: BLUE SKY, 74°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 11:05 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 24"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) _____

Remarks/Visitors: Three attempts

Load Line: 3 Building No.: EB-10 Vertical Geoprobe Number (#): 6
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-415M-(0101-0103)SB

Date: 06/29/2011 (MM/DD/YYYY) Weather: BLUE SKY, 74°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 11:42 (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 25"

Tube B Time: 11:46 (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 16"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) NONE

Remarks/Visitors: Three attempts

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 3 Building No.: EB-10 Vertical Geoprobe Number (#): 7
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-415M-(0101-0103)S'O

Date: 6/29/2011 (MM/DD/YYYY) Weather: BLUE SKY, 74°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 12:05 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 20"

Tube B Time: 12:07 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 13"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) NONE

Remarks/Visitors: Refusal

Load Line: 3 Building No.: EB-10 Vertical Geoprobe Number (#): 8
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-415M-(0101-0103)S'O

Date: 06/29/2011 (MM/DD/YYYY) Weather: BLUE SKY, 74°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 12:30 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 24"

Tube B Time: 12:32 (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 10"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) NONE

Remarks/Visitors: Three attempts

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 3 Building No.: EB-10 Vertical Geoprobe Number (#): 9
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-415M-(0101-0103)SO

Date: 6/29/2011 (MM/DD/YYYY) Weather: BLUE SKY, 74 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 12:50 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 16"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) NONE

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) NONE

Remarks/Visitors: Three attempts

Load Line: 3 Building No.: EB-10 Vertical Geoprobe Number (#): 10
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-415M-(0101-0103)SO

Date: 06/29/2011 (MM/DD/YYYY) Weather: BLUE SKY, 74 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 1:02 (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 23"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) NONE

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) NONE

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 3 Building No.: EB-10 Vertical Geoprobe Number (#): 10
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB 414-M-(0101-0103)SO

Date: 06/29/2011 (MM/DD/YYYY) Weather: CLEAR SKY, 74 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 2:34 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 20'

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) NONE

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) NONE

Remarks/Visitors: _____

Load Line: 3 Building No.: EB-10 Vertical Geoprobe Number (#): 9
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-414-M-(0101-0103)SO

Date: 06/29/2011 (MM/DD/YYYY) Weather: BLUE SKY, 74 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 2:52 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 23"

Tube B Time: 2:52 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 7"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) NONE

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 3 Building No.: EB-10 Vertical Geoprobe Number (#): 8
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-4-14-M-(0101-0103)-SO

Date: 6/29/2011 (MM/DD/YYYY) Weather: BLUE SKY, 74°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 3:20 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 15"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) NONE

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) NONE

Remarks/Visitors:

Load Line: 3 Building No.: EB-10 Vertical Geoprobe Number (#): 7
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-414M1 (0101-0103)-SO

Date: _____ (MM/DD/YYYY) Weather: _____

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 3:32 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 18"

Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) NONE

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) NONE

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 3 Building No.: EB-10 Vertical Geoprobe Number (#): 6
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3-414M-(0101-0103)-SO

Date: 6/29/2011 (MM/DD/YYYY) Weather: BLUE SKY, 74°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 3:44 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 10"

Tube B Time: 3:44 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 11

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) NONE

Remarks/Visitors: _____

Load Line: 3 Building No.: EB-10 Vertical Geoprobe Number (#): 5
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3-414M-(0101-0103)-SO

Date: 6/21/2011 (MM/DD/YYYY) Weather: BLUE SKY, 74°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 3:58 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 16"

Tube B Time: 4:09 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 9"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) NONE

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 3 Building No.: EB-10 Vertical Geoprobe Number (#): 4
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-414-M-(0101-0103)-SO

Date: 6/29/2011 (MM/DD/YYYY) Weather: BLUE SKY, 74 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 4:20 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 17"

Tube B Time: 4:24 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 10"

Tube C Time: 4:24 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 10"

Remarks/Visitors:

Load Line: 3 Building No.: EB-10 Vertical Geoprobe Number (#): 3
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-414-M-(0101-0103)-SO

Date: 6/29/2011 (MM/DD/YYYY) Weather: BLUE SKY, 74 °F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 4:50 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 20"

Tube B Time: 4:50 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) SM 23 12"

Tube C Time: 4:50 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 12"

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 3 Building No.: EB-10 Vertical Geoprobe Number (#): 2
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-414M-(0101-0103)-SO

Date: 6/29/2011 (MM/DD/YYYY) Weather: BLUE SKY, 74°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 5:00 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 18"

Tube B Time: 5:10 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 8"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) NONE

Remarks/Visitors: _____

Load Line: 3 Building No.: EB-10 Vertical Geoprobe Number (#): 1
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL3SB-414M-(0101-0103)-SO

Date: 6/29/2011 (MM/DD/YYYY) Weather: BLUE SKY, 74°F

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 5:17 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 20"

Tube B Time: 5:23 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 8"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: _____ Recovery (ft:) NONE

Remarks/Visitors: _____

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 2
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: ~~LL4 15M-~~ LL4 SB-415M-(0101-0103)-SO

Date: 06/28/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 8:50 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 18"

Tube B Time: 8:50 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 17"

Tube C Time: 8:56 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 24"

Remarks/Visitors:

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): SM ~~5~~ 5
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4 SB-415M-(0101-0103)-SO

Date: 06/28/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 9:07 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 19

Tube B Time: 9:07 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 20"

Tube C Time: 9:24 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 19"

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 3
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4SB-415M-(0101-0103)-S0

Date: 06/28/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 9:35 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 18"

Tube B Time: 9:35 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 18"

Tube C Time: 9:39 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 23"

Remarks/Visitors: NONE

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 1
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4SB-415M-(0101-0103)-S0

Date: 06/28/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 9:58 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 23"

Tube B Time: 9:58 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 22"

Tube C Time: 10:00 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 29"

Remarks/Visitors: NONE

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 4
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4SB-415M-(0101-0103)-SO

Date: 06/28/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 10:15 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 23"

Tube B Time: 10:15 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 23"

Tube C Time: 10:15 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 27"

Remarks/Visitors: NONE

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 7
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4SB-415M-(0101-0103)-SO

Date: 06/28/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 10:30 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 25"

Tube B Time: 10:30 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 25"

Tube C Time: 10:37 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 33"

Remarks/Visitors: NONE

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 6
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-SB-415 M-(0101-0103)-SO

Date: 06/28/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 10:46 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 23"
Tube B Time: 10:46 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 23
Tube C Time: 10:51 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 29"

Remarks/Visitors: NONE

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 8
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-SB-415 M-(0101-0103)-SO

Date: 06/28/2011 (MM/DD/YYYY) Weather:

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 11:05 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 23"
Tube B Time: 11:05 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 22
Tube C Time: 11:05 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 28"

Remarks/Visitors: NONE

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 2
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-SB-413M-(0101-0103)-SO

Date: 06/28/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 12:44 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 26"

Tube B Time: 12:44 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 26"

Tube C Time: 12:44 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 21"

Remarks/Visitors: NONE

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 5
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4SB-413M-(0101-0103)-SO

Date: 06/28/2011 (MM/DD/YYYY) Weather:

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 1:02 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 20"

Tube B Time: 1:02 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 20"

Tube C Time: 1:02 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 20"

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 1
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4SB-413-M-(0101-0103)-SO

Date: 06/28/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 1:16 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 22"

Tube B Time: 1:16 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 24"

Tube C Time: 1:21 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 27"

Remarks/Visitors: NONE

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 14
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4SB-413M1-(0101-0103)-SO

Date: 06/28/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 1:34 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 16"

Tube B Time: 1:34 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 17"

Tube C Time: 1:37 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 9"

Remarks/Visitors: NONE

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 7
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4SB-4-13M-(0101-0103)-S0

Date: 06/28/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 2105 1:45 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 14"

Tube B Time: 2105 1:45 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 14"

Tube C Time: 2108 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 17"

Remarks/Visitors: TWO ATTEMPTS

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 8
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4SB-4-13M-(0101-0103)-S0

Date: 06/28/2011 (MM/DD/YYYY) Weather:

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 3:14 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 26"

Tube B Time: 3:14 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 26"

Tube C Time: 3:18 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 31"

Remarks/Visitors: NONE

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 3
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4SB-413M-(0101-0105)-SO

Date: 06/28/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 2:28 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 15"
Tube B Time: 2:28 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 16"
Tube C Time: 2:28 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 31"

Remarks/Visitors: NONE

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 6
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4SB-413M-(0101-0103)-SO

Date: 06/28/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 3:01 (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 8"
Tube B Time: _____ (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) X
Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) X

Remarks/Visitors: No recovery for 3-5 ft / fell out & 5-7ft

FIELD LOG – TASK 6 SURFACE SOIL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Task 6 Sample ID: LL455-419M-0001-SO Former RI Sample ID LL4-RT-158

Date: 06/26/2011 (MM/DD/YYYY) Time: 09:15 (HH:MM) Weather: SUNNY

Depth Range (Ft): 0-1

Contractor Personnel: MH, JJ, AM, TH

Material: BR TOPSOIL (SILT CLAY)

Remarks/Visitors: NONE

Load Line: 4 Task 6 Sample ID: LL455-420M-0001-SO Former RI Sample ID LL-4 RT-034

Date: 6/26/2011 (MM/DD/YYYY) Time: 10:30 (HH:MM) Weather: SUNNY ~65

Depth Range (Ft): 0-1

Contractor Personnel: SM, JJ, TH, AM, MH, TS

Material: DL TOPSOIL W/ SILTY CLAY - MOIST

Remarks/Visitors: NONE

Load Line: 4 Task 6 Sample ID: LL458-421M-0001-SO Former RI Sample ID LL-4 RT-034

Date: 6/26/2011 (MM/DD/YYYY) Time: 10:30 (HH:MM) Weather: SUNNY 65°

Depth Range (Ft): 1-2

Contractor Personnel: AM, TH, SM, MH, TS, JJ

Material: BL TOPSOIL, W/ SILTY CLAY - MOIST

Remarks/Visitors: NONE

FIELD LOG – TASK 6 SURFACE SOIL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

W. SIDE BLK 6-8

Load Line: 4 Task 6 Sample ID: LL455-412M-0001-SO Former RI Sample ID _____

Date: 6/26/2011 (MM/DD/YYYY) Time: 11:20 (HH:MM) Weather: SUNNY - 82

Depth Range (Ft): ~~0-0.8"~~ 0-(6-8")

Contractor Personnel: AM, TH, JJ, MH, TS, SM

Material: BR-TAN SILTY CLAY, TR GRAVEL, SOME SAND

Remarks/Visitors: NONE

SW END

Load Line: 4 Task 6 Sample ID: LL455-414M-0001-SO Former RI Sample ID LL4-

Date: 6/26/2011 (MM/DD/YYYY) Time: 12:00 (HH:MM) Weather: SUNNY - 84

Depth Range (Ft): ~~0-0.8"~~ 0-(8"-1.0')

Contractor Personnel: AM, TH, JJ, MH, TS, SM

Material: BR-TAN SILTY CLAY, TR GRAVEL, SOME SAND

Remarks/Visitors: NONE

SW END

Load Line: 4 Task 6 Sample ID: LL455-414M-0002-SO Former RI Sample ID LL4

Date: 6/26/2011 (MM/DD/YYYY) Time: 12:00 (HH:MM) Weather: SUNNY - 84

Depth Range (Ft): 0-(8"-1.0')

Contractor Personnel: AM, TH, SM, JJ, MH, TS

Material: BR-TAN SILTY CLAY, TR GRAVEL, SOME SAND

Remarks/Visitors: NONE

FIELD LOG – TASK 6 SURFACE SOIL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Task 6 Sample ID: LL455-416M-0001-SO Former RI Sample ID LL4-045

Date: 6/26/2011 (MM/DD/YYYY) Time: 14:00 (HH:MM) Weather: SUNNY - 75

Depth Range (Ft): 0-1

Contractor Personnel: AM, TH, MH, TS, JJ, TS

Material: FILL - BR SILTY SANDY CLAY

Remarks/Visitors: USED SLEDGE

Load Line: 4 Task 6 Sample ID: LL455-416M-0002-SO Former RI Sample ID LL4-045

Date: 6/26/2011 (MM/DD/YYYY) Time: 1400 (HH:MM) Weather: SUNNY 75°

Depth Range (Ft): 0-1

Contractor Personnel: AM, TH, MH, TS, JJ - ~~FD~~ SM,

Material: FILL BR SILTY SANDY CLAY

Remarks/Visitors: ~~NO~~ USED SLEDG

Load Line: 4 Task 6 Sample ID: LL455-417M-0001-SO Former RI Sample ID LL4-045

Date: 6/26/2011 (MM/DD/YYYY) Time: 1400 (HH:MM) Weather: SUNNY 75°

Depth Range (Ft): 0-1

Contractor Personnel: AM, TH, MH, TS, JJ, SM

Material: FILL BR SILTY SANDY CLAY

Remarks/Visitors: NONE

FIELD LOG – TASK 6 SURFACE SOIL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Task 6 Sample ID: LL4S5-418M-0001-SO Former RI Sample ID _____

Date: 6/26/2011 (MM/DD/YYYY) Time: 14:00 (HH:MM) Weather: SUNNY 75°

Depth Range (Ft): 0-1 QA

Contractor Personnel: AM-TH-MH-TS-JJ-SM

Material: FILL - BR SILTY, SANDY CLAY

Remarks/Visitors: NONE

Load Line: 12 Task 6 Sample ID: L12SS-306M-0001-SO Former RI Sample ID ~~612~~ L12SS-102

Date: 6-26-2011 (MM/DD/YYYY) Time: 1520 (HH:MM) Weather: SUNNY 78°

Depth Range (Ft): 0-1 (MOST 0-0.4)

Contractor Personnel: AM-TH-JJ-MH-SM-TS

Material: BR TOPSOIL

Remarks/Visitors: SOLID LAYER @ 0.4-0.6' DOWN — MOISY
UXO HAS LOUD HITS- CANNOT PUSH

Load Line: 12 Task 6 Sample ID: L12SS-305M-0001-SO Former RI Sample ID ~~LL~~L12SS-077

Date: 6-26-2011 (MM/DD/YYYY) Time: 15:30 (HH:MM) Weather: SUNNY - 78°

Depth Range (Ft): 0-0.5

Contractor Personnel: AM, TH, SM, MH, JJ, TS

Material: BR TOPSOIL

Remarks/Visitors: CB

FIELD LOG – TASK 6 SURFACE SOIL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 12 Task 6 Sample ID: L12S5-303M-0001-S0 Former RI Sample ID L12-066

Date: 6-26-2011 (MM/DD/YYYY) Time: 1556 (HH:MM) Weather: SUNNY - 82

Depth Range (Ft): 0 - 0.8

Contractor Personnel: MH, JT

Material: BR SILTY CLAY, TR TOPSOIL – MUCH SLAG

Remarks/Visitors: NONE

Load Line: 12 Task 6 Sample ID: L1255-304M-0001-S0 Former RI Sample ID L12-064

Date: 6-26-2011 (MM/DD/YYYY) Time: 16:25 (HH:MM) Weather: SUNNY 85

Depth Range (Ft): 0 - 0.7

Contractor Personnel: AM, TH, TS

Material:

Remarks/Visitors: NONE

Load Line: 12 Task 6 Sample ID: L1255-304M-0002-S0 Former RI Sample ID L12-064

Date: 6-26-2011 (MM/DD/YYYY) Time: 16:25 (HH:MM) Weather: SUNNY - 85

Depth Range (Ft): 0 - 0.7

Contractor Personnel: AM, TH, TS

Material:

Remarks/Visitors: NONE

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Building No.: 6-8 Vertical Geoprobe Number (#): 7
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4 SB-411M-(0101-0104)-SO

Date: 06/27/2011 (MM/DD/YYYY) Weather: clear Sky, Sunny,

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 9:12 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 20"
Tube B Time: 9:12 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 19"
Tube C Time: 9:20 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 22"

Remarks/Visitors: NONE

Load Line: 4 Building No.: 6-8 Vertical Geoprobe Number (#): 6
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4 SB-411M-(0101-0103)-SO

Date: 06/27/2011 (MM/DD/YYYY) Weather: clear Sky, Sunny

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 9:34 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 12"
Tube B Time: 9:34 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 13"
Tube C Time: 10:10 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 20"

Remarks/Visitors: NONE

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 8
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-411M-(0101-0104)-SO

Date: 06/27/2011 (MM/DD/YYYY) Weather: CLEAR SKY, SUNNY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 10:22 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 23"
Tube B Time: 10:22 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 24"
Tube C Time: 10:28 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 23"

Remarks/Visitors: NONE

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 5
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-411M-(0101-0103)-SO

Date: 06/27/2011 (MM/DD/YYYY) Weather: CLEAR SKY - SUNNY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 10:44 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 22"
Tube B Time: 10:44 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 22"
Tube C Time: 10:54 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 21"

Remarks/Visitors: NONE

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 3
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-411M-(0101-0103)-SO

Date: 06/27/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 11:01 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 11" 13"

Tube B Time: 11:01 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 24" 14"

Tube C Time: 11:07 (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 31"

Remarks/Visitors: NONE

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 2
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-411M-(0101-0103)-SO

Date: 06/27/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 11:10 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 18"

Tube B Time: 11:10 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 18"

Tube C Time: 11:14 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 24"

Remarks/Visitors: NONE

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 1
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-411M(0101-0103)-SO

Date: 06/27/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 11:30 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 12"

Tube B Time: 11:30 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 13"

Tube C Time: 11:35 AM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 20"

Remarks/Visitors: NONE

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 4
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-411M(0101-0103)-SO

Date: 06/27/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 11:40 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 14"

Tube B Time: 11:40 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 14"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 26"

Remarks/Visitors: NONE

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 8
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-407M-(0101-0103)-SO

Date: 06/27/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 12:02 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 24"
Tube B Time: 12:02 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 25"
Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 23"

Remarks/Visitors: NONE

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 7
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-407M-(0101-0103)-SO

Date: 06/27/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 12:17 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 28"
Tube B Time: 12:17 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 28"
Tube C Time: 12:24 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 31"

Remarks/Visitors: NONE

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 6
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-407M-(0101-0103)-SO

Date: 06/27/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 12:40 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 22"

Tube B Time: 12:40 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 23"

Tube C Time: 12:48 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 26"

Remarks/Visitors: NONE

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 5
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-407M-(0101-0103)-SO

Date: 06/27/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 12:57 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 26"

Tube B Time: 12:57 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 26"

Tube C Time: 1:03 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 24"

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 4
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-407M-(0101-0103)-SO

Date: 06/27/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 1:13 AM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 17"

Tube B Time: 1:13 AM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 18"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 8"

Remarks/Visitors: NONE

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 3
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-407M-(0101-0103)-SO

Date: 06/27/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 2:49 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 27"

Tube B Time: 2:49 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 27"

Tube C Time: 2:55 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 24"

Remarks/Visitors: NONE

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 2
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-407M-(0101-0103)-SO

Date: 06/27/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 3:00 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) SM-2+10"

Tube B Time: 3:00 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 11"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 21"

Remarks/Visitors: NONE

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 1
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-407M-(0101-0103)-SO

Date: 06/27/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 3:17 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 25"

Tube B Time: 3:17 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 25"

Tube C Time: 3:24 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 26"

Remarks/Visitors: NONE

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 1.
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-410M-(0101-0103)-S0

Date: 06/27/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 3:35 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 12"
Tube B Time: 3:35 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 12"
Tube C Time: 3:37 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 21"

Remarks/Visitors: NONE

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 2
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-410M-(0101-0103)-S0

Date: 06/27/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 3:48 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 12"
Tube B Time: 3:48 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 12"
Tube C Time: 3:52 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 25"

Remarks/Visitors:

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 3
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-410M-(0101-0103)-SO

Date: 06/27/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 3:58 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 12"

Tube B Time: 3:58 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 12"

Tube C Time: _____ (HH:MM) Depth Range (ft) Drilled: 5-67 SM Recovery (ft:) 24"

Remarks/Visitors: NONE

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 4
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-410M-(0101-0103)-SO

Date: 06/27/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 4:10 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 11"

Tube B Time: 4:10 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 11"

Tube C Time: 4:13 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 21"

Remarks/Visitors: NONE

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): SM 5 SM 4 SM 5
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-410M-(0101-0103)-SO

Date: 06/27/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 4:38 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 13"

Tube B Time: 4:38 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 13"

Tube C Time: 4:42 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 29"

Remarks/Visitors: NONE

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): SM 4 SM 5 6
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-410M-(0101-0103)-SO

Date: 06/27/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 4:59 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 12"

Tube B Time: 4:59 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 13"

Tube C Time: 5:04 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 19"

Remarks/Visitors: NONE

FIELD LOG – TASK 6 SUBSURFACE SOIL HORIZONTAL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 7
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-410-M-(0101-0103)

Date: 06/27/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz/ Frontz Drilling

Tube A Time: 5:14 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 12"

Tube B Time: 5:14 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 12"

Tube C Time: 5:16 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 29"

Remarks/Visitors: NONE

Load Line: 4 Building No.: G-8 Vertical Geoprobe Number (#): 8
(# only = Primary; A-# = 1st triplicate; B-# = 2nd Triplicate)

Subsurface Soil Horizontal ISM ID: LL4-410M-(0101-0103)

Date: 06/27/2011 (MM/DD/YYYY) Weather: CLEAR SKY

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich, Travis Steele

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Subcontractor Personnel (Name/Company): Ethan Frontz / Frontz Drilling

Tube A Time: 5:32 PM (HH:MM) Depth Range (ft) Drilled: 1-3 Recovery (ft:) 10"

Tube B Time: 5:32 PM (HH:MM) Depth Range (ft) Drilled: 3-5 Recovery (ft:) 11"

Tube C Time: 5:26 PM (HH:MM) Depth Range (ft) Drilled: 5-7 Recovery (ft:) 27"

Remarks/Visitors: NONE SM 3 trials for 1-3 & 3-5 Depth attempts

FIELD LOG – TASK 6 SURFACE SOIL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 3 Task 6 Sample ID: LL3SS-424M-0001.5U Former RI Sample ID NE/SE EB-4

Date: 6/30/2011 (MM/DD/YYYY) Time: 09:30 (HH:MM) Weather: SUNNY 72

Depth Range (Ft): 0-(0.5-1.0)

Contractor Personnel: ~~Amanda Miller,~~ John Jent, ~~Tomas Hernandez,~~ ~~Samir Mansy~~ Morgan Helfrich ~~Travis Steele~~

Material: FILL BR POORLY GRADED SAND GRAVEL W/ CLAY

Remarks/Visitors: NONE

Load Line: 3 Task 6 Sample ID: LL3SS-423M-0001-SC Former RI Sample ID SW/NW EB-4

Date: 6-30-2011 (MM/DD/YYYY) Time: 11:50 (HH:MM) Weather: SUNNY. 72

Depth Range (Ft): 0-(0.3-1.0)

Contractor Personnel: ~~Amanda Miller,~~ John Jent, ~~Tomas Hernandez,~~ ~~Samir Mansy,~~ Morgan Helfrich ~~Travis Steele~~

Material: (FILL) BR POORLY GRADED SAND GRAVEL W/ CLAY

Remarks/Visitors: NONE

Load Line: 3 Task 6 Sample ID: LL3SD-416M-0001-SD Former RI Sample ID RI-05

Date: 7/2/2011 (MM/DD/YYYY) Time: 08:50 (HH:MM) Weather: CLOUDY- 70

Depth Range (Ft): 0-0.5 (0-6")

Contractor Personnel: ~~Amanda Miller,~~ John Jent, ~~Tomas Hernandez,~~ ~~Samir Mansy,~~ Morgan Helfrich ~~Travis Steele~~

Material: BR SILTY SAND WITH GRAVEL & CLAY

Remarks/Visitors: ~~NONE~~ ALSO DID VOC, ULAC

FIELD LOG – TASK 6 SURFACE SOIL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 3 Task 6 Sample ID: ~~LL355~~ LL355-419M-0001 ~~-419M-0001~~-SO Former RI Sample ID 016

Date: 7-2-2011 (MM/DD/YYYY) Time: 12:30 (HH:MM) Weather: CLOUDY. 75°

Depth Range (Ft): 0-1

Contractor Personnel: ~~Amanda Miller,~~ John Jent, ~~Tomas Hernandez,~~ Samir Mansy Morgan Helfrich Travis Steele

Material: 2" TOPSOIL / LT. BR SILTY CLAY

Remarks/Visitors: USED SPLIT SPOON

Load Line: 3 Task 6 Sample ID: LL355-419M-0002 (MS/MSD) Former RI Sample ID 016

Date: 7-2-2011 (MM/DD/YYYY) Time: 12:30 (HH:MM) Weather: CLOUDY. 75°

Depth Range (Ft): 0-1

Contractor Personnel: ~~Amanda Miller,~~ John Jent, ~~Tomas Hernandez,~~ Samir Mansy, Morgan Helfrich Travis Steele

Material: 2" TOPSOIL / LT. BR SILTY CLAY

Remarks/Visitors: USED SPLIT SPOON

Load Line: 3 Task 6 Sample ID: LL3 SB-420M-0001-SO Former RI Sample ID 016

Date: 7-2-2011 (MM/DD/YYYY) Time: 12:30 (HH:MM) Weather: CLOUDY - 75°

Depth Range (Ft): 1'-2'

Contractor Personnel: ~~Amanda Miller,~~ John Jent, ~~Tomas Hernandez,~~ Samir Mansy, Morgan Helfrich Travis Steele

Material: LT. BR SILTY CLAY

Remarks/Visitors:

FIELD LOG – TASK 6 SURFACE SOIL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 3 Task 6 Sample ID: LL3SS-421M-0001-SO Former RI Sample ID 028

Date: 7-2-2011 (MM/DD/YYYY) Time: 3:00 (HH:MM) Weather: SUNNY- 8C

Depth Range (Ft): 0-1

Contractor Personnel: ~~Amanda Miller,~~ John Jent, ~~Tomas Hernandez,~~ Samir Mansy, Morgan Helfrich Travis Steele

Material: 2" BR TOPSOIL, BRN SILTY-CLAY

Remarks/Visitors: NONE

Load Line: 3 Task 6 Sample ID: LL3SB-422M-SO 0001 Former RI Sample ID 028

Date: 7-2-2011 (MM/DD/YYYY) Time: 3:00 (HH:MM) Weather: SUNNY- 80

Depth Range (Ft): 1.0-2.0

Contractor Personnel: ~~Amanda Miller,~~ John Jent, ~~Tomas Hernandez,~~ Samir Mansy, Morgan Helfrich Travis Steele

Material: 2" BR TOPSOIL, BRN SILTY-CLAY

Remarks/Visitors: NONE

Load Line: 2 Task 6 Sample ID: LL2SS-519M-0001-SO Former RI Sample ID —

Date: 7-2-2011 (MM/DD/YYYY) Time: 4:15 (HH:MM) Weather: SUNNY- 8C

Depth Range (Ft): 0-1

Contractor Personnel: ~~Amanda Miller,~~ John Jent, ~~Tomas Hernandez,~~ Samir Mansy, Morgan Helfrich Travis Steele

Material: FILL - (SILTY CLAY TO SILTY SAND)

Remarks/Visitors: NONE

FIELD LOG – TASK 6 SURFACE SOIL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 3 Task 6 Sample ID: LL3SD-417M-0001-SD Former RI Sample ID 050(

Date: 7-2-2011 (MM/DD/YYYY) Time: 08:55 (HH:MM) Weather: CLOUDY - 70°

Depth Range (Ft): 0 - 0.5 (6")

Contractor Personnel: ~~Amanda Miller,~~ John Jent, ~~Tomas Hernandez,~~ ~~Samir Mansy~~ ~~Morgan Helfrich~~ ~~Travis Steele~~

Material: BR SILTY SAND WITH GRAVEL + CLAY

Remarks/Visitors: ALSO DID VOCs VIAL

QA

Load Line: 3 Task 6 Sample ID: LL3SD-418M-0001-SD Former RI Sample ID 050( )

Date: 7-2-2011 (MM/DD/YYYY) Time: 0855 (HH:MM) Weather: CLOUDY 70°

Depth Range (Ft): 0 - 0.5 (6")

Contractor Personnel: ~~Amanda Miller,~~ John Jent, ~~Tomas Hernandez,~~ ~~Samir Mansy,~~ Morgan Helfrich ~~Travis Steele~~

Material: BR SILTY SAND WITH GRAVEL & CLAY

Remarks/Visitors: ALSO DID VOCs VIAL

Load Line: _____ Task 6 Sample ID: _____ Former RI Sample ID _____

Date: _____ (MM/DD/YYYY) Time: _____ (HH:MM) Weather: _____

Depth Range (Ft): _____

Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich Travis Steele

Material: _____

Remarks/Visitors: _____

FIELD LOG – TASK 6 SURFACE SOIL ISM SAMPLES

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037

Load Line: 2 Task 6 Sample ID: LL255-516M-0001-SO Former RI Sample ID LL255-165
LL255-516M-0002-SO
LL255-517M-0001-SO
Date: 7-3-2011 (MM/DD/YYYY) Time: 0945 (HH:MM) Weather: CLOUDY 75°
0-(0.4-1.0) LL255-518M-0001-SO
LL255-518M-0002-SO
Depth Range (Ft): ~~0-1'~~
Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, ~~Morgan Helfrich~~ Travis Steele

Material: (FILL) LT BRN SILTY, SANDY CLAY, W/GRAVEL

Remarks/Visitors: NONE

Load Line: 12 Task 6 Sample ID: LL255-300M-0001-SO
~~LL~~LL255-301M-0001-SO
LL255-302M-0001-SO
Former RI Sample ID LL255-059
Date: 7-3-2011 (MM/DD/YYYY) Time: 11:15 (HH:MM) Weather: CLOUDY 78°
Depth Range (Ft): ~~0-1'~~ 0-(0.2-1.0)
Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, ~~Morgan Helfrich~~ Travis Steele

Material: (FILL) BRN SILTY CLAY/W ROCK, BRICK FRAGMENTS

Remarks/Visitors:

Load Line: _____ Task 6 Sample ID: _____ Former RI Sample ID _____
Date: _____ (MM/DD/YYYY) Time: _____ (HH:MM) Weather: _____
Depth Range (Ft): _____
Contractor Personnel: Amanda Miller, John Jent, Tomas Hernandez, Samir Mansy, Morgan Helfrich Travis Steele

Material: _____

Remarks/Visitors: _____

Appendix C – Daily QC Reports

TABLE 1 LOAD LINES 1, 2, 3, 4, 12 CHARACTERIZATION SAMPLING IDENTIFICATION NUMBERS

AOC/Area	Building or Area	Reason for Samping	Type Sampling	Sampling Depth (ft)	Number Borings	Nominal Spacing (Ft)	Sample ID	Laboratory Analyses	Date Completed
	SW Half of Bldg CB-4A	Possibly limit extent of remediation (outside elevator)	Subsurface ISM	1 - 3	8	36	LL1SB-640M-0101-SO	Explosives	7-5
				3 - 5			LL1SB-640M-0102-SO	Explosives	7-5
				5 - 7			LL1SB-640M-0103-SO	Explosives	7-5
	SW-NW Side of Bldg CB-4	Bound contamination	Subsurface ISM	1 - 3	8	37	LL1SB-641M-0101-SO	PAHs	7-6
	20-ft Wide			3 - 5			LL1SB-641M-0102-SO	PAHs	7-6
				5 - 7			LL1SB-641M-0103-SO	PAHs	7-6
	NE-SE Side of Bldg CB-4	Bound contamination	Subsurface ISM	1 - 3	8	37	LL1SB-642M-0101-SO	PAHs	7-6
	20-ft Wide			3 - 5			LL1SB-642M-0102-SO	PAHs	7-6
				5 - 7			LL1SB-642M-0103-SO	PAHs	7-6
	SW-NW Side of Bldg CB-4A	Bound contamination	Subsurface ISM	1 - 3	8	37	LL1SB-643M-0101-SO	PAHs	7-5
	20-ft Wide			3 - 5			LL1SB-643M-0102-SO	PAHs	7-5
				5 - 7			LL1SB-643M-0103-SO	PAHs	7-5
	NE-SE Side of Bldg CB-4A	Bound contamination	Subsurface ISM	1 - 3	8	37	LL1SB-644M-0101-SO	Full Suite	7-5
	20-ft Wide	(Primary)		3 - 5			LL1SB-644M-0102-SO	Full Suite	7-5
				5 - 7			LL1SB-644M-0103-SO	Full Suite	7-5
	NE-SE Side of Bldg CB-4A	Bound contamination	Subsurface ISM	1 - 3	8	37	LL1SB-645M-0101-SO	Full Suite	7-5
	20-ft Wide	(QC)		3 - 5			LL1SB-645M-0102-SO	Full Suite	7-5
				5 - 7			LL1SB-645M-0103-SO	Full Suite	7-5
	NE-SE Side of Bldg CB-4A	Bound contamination	Subsurface ISM	1 - 3	8	37	LL1SB-646M-0101-SO	Full Suite	7-5
	20-ft Wide	(QA)		3 - 5			LL1SB-646M-0102-SO	Full Suite	7-5
				5 - 7			LL1SB-646M-0103-SO	Full Suite	7-5
LL-2	SW-NW Side of Bldg DB-4	Bound contamination	Subsurface ISM	1 - 3	8	37	LL2SB-512M-0101-SO	PAHs	7-1
	20-ft Wide			3 - 5			LL2SB-512M-0102-SO	PAHs	7-1
				5 - 7			LL2SB-512M-0103-SO	PAHs	7-1
	NE-SE Side of Bldg DB-4	Bound contamination	Surface ISM	0 - 1			LL2SS-519M-0001-SO	PAHs, PCBs	7-2
	20-ft Wide		Subsurface ISM	1 - 3	8	37	LL2SB-513M-0101-SO	PAHs, PCBs	7-1
				3 - 5			LL2SB-513M-0102-SO	PAHs, PCBs	7-1
				5 - 7			LL2SB-513M-0103-SO	PAHs, PCBs	7-1
	SW-NW Side of Bldg DB-4A	Bound contamination	Subsurface ISM	1 - 3	8	37	LL2SB-514M-0101-SO	PAHs	7-1
	20-ft Wide			3 - 5			LL2SB-514M-0102-SO	PAHs	7-1
				5 - 7			LL2SB-514M-0103-SO	PAHs	7-1
	NE-SE Side of Bldg DB-4A	Bound contamination	Subsurface ISM	1 - 3	8	37	LL2SB-515M-0101-SO	PAHs	7-1
	20-ft Wide			3 - 5			LL2SB-515M-0102-SO	PAHs	7-1
				5 - 7			LL2SB-515M-0103-SO	PAHs	7-1
	RI Discrete Sample Location	LL2ss-165 w B(a)P = 1.9 mg/kg	Surface ISM	0 - 1	Primary		LL2SS-516M-0001-SO	Full Suite	7-3
				0 - 1	MS/MSD		LL2SS-516M-0002-SO	Full Suite	7-3
	RI Discrete Sample Location	LL2ss-165 w B(a)P = 1.9 mg/kg	Surface ISM	0 - 1	QC		LL2SS-517M-0001-SO	Full Suite	7-3
	RI Discrete Sample Location	LL2ss-165 w B(a)P = 1.9 mg/kg	Surface ISM	0 - 1	QA		LL2SS-518M-0001-SO	Full Suite	7-3
				0 - 1	QA-MS/MSD		LL2SS-518M-0002-SO	Full Suite	7-3
LL-3	SW-NW Side of Bldg EB-4	Bound contamination	Surface ISM	0 - 1			LL3SS-423M-0001-SO	PCBs	6-30
	20-ft Wide		Subsurface ISM	1 - 3	8	37	LL3SB-412M-0101-SO	PCBs,	6-30
				3 - 5			LL3SB-412M-0102-SO	PCBs	6-30
				5 - 7	NO SAMPLE		LL3SB-412M-0103-SO	PCBs	NO SAMPLE
	NE-SE Side of Bldg EB-4	Bound contamination	Surface ISM	0 - 1			LL3SS-424M-0001-SO	PCBs	6-30
	20-ft Wide		Subsurface ISM	1 - 3	8	37	LL3SB-413M-0101-SO	PCBs	6-30
				3 - 5			LL3SB-413M-0102-SO	PCBs	6-30
				5 - 7			LL3SB-413M-0103-SO	PCBs	6-30
	SW-NW Side of Bldg EB-10	Bound contamination	Subsurface ISM	1 - 3	10	39	LL3SB-414M-0101-SO	Arsenic/PAHs	6-29
	20-ft Wide			3 - 5			LL3SB-414M-0102-SO	Arsenic/PAHs	6-29
				5 - 7			LL3SB-414M-0103-SO	Arsenic/PAHs	6-29
	NE-SE Side of Bldg EB-10	Bound contamination	Subsurface ISM	1 - 3	10	39	LL3SB-415M-0101-SO	Arsenic/PAHs	6-29
	20-ft Wide			3 - 5			LL3SB-415M-0102-SO	Arsenic/PAHs	6-29
				5 - 7			LL3SB-415M-0103-SO	Arsenic/PAHs	6-29
	RI Discrete Sediment Sample	LL3sd-050 w/B(a)P = 3.0 mg/kg J	Sediment ISM	0 - 0.5	Primary		LL3SD-416M-0001-SD	Full Suite	7-2
	RI Discrete Sediment Sample	LL3sd-050 w/B(a)P = 3.0 mg/kg J	Sediment ISM	0 - 0.5	QC		LL3SD-417M-0001-SD	Full Suite	7-2
	RI Discrete Sediment Sample	LL3sd-050 w/B(a)P = 3.0 mg/kg J	Sediment ISM	0 - 0.5	QA		LL3SD-418M-0001-SD	Full Suite	7-2
	Ph I RI Surf Soil Sample (0 - 2')	LL3ss-016 w/B(a)P = 1.0	Surface ISM	0 - 1			LL3SS-419M-0001-SO	PAHs	7-2
				0 - 1	MS/MSD		LL3SS-419M-0002-SO	PAHs	7-2
			Subsurface ISM	1 - 2			LL3SB-420M-0001-SO	PAHs	7-2
	Ph I RI Surf Soil Sample (0 - 2')	LL3ss-028 w/B(a)P = 0.88 mg/kg	Surface ISM	0 - 1			LL3SS-421M-0001-SO	PAHs	7-2
			Subsurface ISM	1 - 2			LL3SB-422M-0001-SO	PAHs	7-2

330-749-9867

LL-4	20-ft wide along north side	Building G-8	Subsurface ISM	1 - 3	8	41	LL4SB-407M-0101-SO	PAHs	6-27
		(Primary)		3 - 5			LL4SB-407M-0101-SO	PAHs	6-27
				5 - 7			LL4SB-407M-0101-SO	PAHs	6-27
	Area South of Building G-8	Bound south side of	Subsurface ISM	1 - 3	8	41	LL4SB-410M-0101-SO	PAHs	6-27
	20-ft wide along south side	Building G-8		3 - 5			LL4SB-410M-0101-SO	PAHs	6-27
				5 - 7			LL4SB-410M-0101-SO	PAHs	6-27
	NE Half of Bldg G-8	Possibly limit extent of	Subsurface ISM	1 - 3	8	41	LL4SB-411M-0101-SO	PAHs	6-27
		remediation (URS G-8 #2) had		3 - 5			LL4SB-411M-0102-SO	PAHs	6-27
		no elevated SVOCs		5 - 7			LL4SB-411M-0103-SO	PAHs	6-27
	Half-width of G-8, Adj to	Bound west side of	Surface ISM	0 - 1			LL4SS-412M-0001-SO	PAHs	6-26
	SW End of Bldg G-8	Building G-8	Subsurface ISM	1 - 3	8	41	LL4SB-413M-0101-SO	PAHs	6-28
				3 - 5			LL4SB-413M-0102-SO	PAHs	6-28
				5 - 7			LL4SB-413M-0103-SO	PAHs	6-28
	Half-width of G-8, Adj to	Bound west side of	Surface ISM	0 - 1			LL4SS-414M-0001-SO	PAHs	6-26
				0 - 1	MS/MSD		LL4SS-414M-0002-SO	PAHS	6-26
	SW End of Sample LL4SS-414	Building G-8	Subsurface ISM	1 - 3	8	41	LL4SB-415M-0101-SO	PAHs	6-28
				3 - 5			LL4SB-415M-0102-SO	PAHs	6-28
				5 - 7			LL4SB-415M-0103-SO	PAHs	6-28
	RI Discrete Sample Location	LL4ss-045 w B(a)P = 2.1 mg/kg	Surface ISM	0 - 1	Primary		LL4SS-416M-0001-SO	Full Suite	6-26
				0 - 1	MS/MSD		LL4SS-416M-0002-SO	Full Suite	6-26
	RI Discrete Sample Location	LL4ss-045 w B(a)P = 2.1 mg/kg	Surface ISM	0 - 1	QC		LL4SS-417M-0001-SO	Full Suite	6-26
	RI Discrete Sample Location	LL4ss-045 w B(a)P = 2.1 mg/kg	Surface ISM	0 - 1	QA		LL4SS-418M-0001-SO	Full Suite	6-26
	RI Discrete Sample Location	LL4ss-158 w B(a)P = 0.95 mg/kg	Surface ISM	0 - 1			LL4SS-419M-0001-SO	PAHs	6-26
	Ph I RI Surf Soil Sample (0 - 2')	LL4ss-034 W B(a)P = 0.45 mg/kg	Surface ISM	0 - 1			LL4SS-420M-0001-SO	PAHs	6-26
			Subsurface ISM	1 - 2			LL4SS-421M-0001-SO	PAHs	6-26
LL-12	RI Discrete Sample Location	L12ss-059 w B(a)P = 3.5 mg/kg	Surface ISM	0 - 1	Primary		L12SS-300M-0001-SO	Full Suite	7-3
	RI Discrete Sample Location	L12ss-059 w B(a)P = 3.5 mg/kg	Surface ISM	0 - 1	QC		L12SS-301M-0001-SO	Full Suite	7-3
	RI Discrete Sample Location	L12ss-059 w B(a)P = 3.5 mg/kg	Surface ISM	0 - 1	QA		L12SS-302M-0001-SO	Full Suite	7-3
	RI Discrete Sample Location	L12ss-060 w B(a)P = 4.7 mg/kg	Surface ISM	0 - 1			L12SS-303M-0001-SO	PAHs	6-26
	RI Discrete Sample Location	L12ss-064 w B(a)P = 24.0 mg/kg	Surface ISM	0 - 1			L12SS-304M-0001-SO	PAHs	6-26
				0 - 1	MS/MSD		L12SS-304M-0002-SO	PAHS	6-26
	RI Discrete Sample Location	L12ss-099 w B(a)P = 0.82 mg/kg	Surface ISM	0 - 1			L12SS-305M-0001-SO	PAHs	6-26
	RI Discrete Sample Location	L12ss-100 w B(a)P = 0.65 mg/kg	Surface ISM	0 - 1			L12SS-306M-0001-SO	PAHs	6-26
Borrow	Backfill Borrow Source	Evaluate for Approved Backfill	Surface ISM	0 - 1	Primary		CHASS-001M-0001-SO	Full Suite	6-29
	Backfill Borrow Source	Evaluate for Approved Backfill	Surface ISM	0 - 1	QC		CHASS-002M-0001-SO	Full Suite	6-29
	Backfill Borrow Source	Evaluate for Approved Backfill	Surface ISM	0 - 1	QA		CHASS-003M-0001-SO	Full Suite	6-29

B(a)P = Benzo(a)pyrene
PCB-54 = Aroclor-1254
CHA = Charlestown Sand and Gravel Quarry

Surface Soil ISM Borings	25
Sediment ISM Borings	3
Subsurface Soil ISM Borings	163
Subsurface Soil ISM Horizontal Samples	60
Subsurface Soil ISM (1' - 2') Samples	3

DAILY QUALITY CONTROL REPORT

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern 1/2
USACE Contract No. W912QR-10-P-0037 Corp Technical Manager- Derek Kinder
Contractor- Prudent Technologies, Inc Contractor Project Manager- John Jent

Date 06/24/2011 (MM/DD/YEAR) Day of Week FRIDAY

Weather- General ___ Bright; ___ Sunny; ___ Clear ; ✓ Overcast; ✓ Rain
Temp 65-75
Wind ___ Still: ✓ Moderate; ___ High
Humidity ___ Dry; ___ Moderate; ✓ Humid

Contractor Personnel: TOMAS HERNANDEZ (TH), JOHN JENT (JJ), SAMIR MANSY (SM)
AMANDA MILLER (AM)

Visitors on site: NONE

Subcontractors on Site - Name (Company): NONE

Equipment on Site: NONE

Work Performed:

VISITED SAMPLING LOCATIONS ALREADY LAID OUT
AM & SM VISITED TESTAMERICA LAB IN NORTH CANTON
TH & JJ PICKED UP 5 55-GALLON DRUMS IN YOUNGSTOWN
CONSTRUCTED 4 1 1/2-DIAMETER SPLIT ALUMINUM SAMPLERS
DECONTAMINATED SAMPLING EQUIPMENT
RECEIVED TOILET + WASH BASIN
PURCHASED EQUIPMENT

Date 06/24/2011
(MM/DD/~~2010~~)

Work Performed (Continued)

Quality Control Activities (Including Field Calibrations):

Health and Safety Levels and Activities:

TAILGATE MEETING

Problems Encountered/Resolution or Corrective Action Taken:

DEVELOPED EQUIPMENT TO TAKE 1'-2' ISM SAMPLES
DRUM CONTRACTOR DIDN'T HAVE ANY DRUMS/DRUM CONTRACTOR
GAVE US REFERENCE TO HIS SUPPLIER & WE PICKED UP 5 DRUMS

Remarks: REVISED CMT RESPONSE TABLE FOR OEPA COMMENTS
& ADDED SURFACE SOIL ISM SAMPLES PER OEPA

Tomorrow's Expectations: CLEAR SITES OF VEGETATION & LAYOUT
BORING LOCATIONS, PICK UP TR
AND MORGAN

Prepared by: _____ QA Check by: _____
(Signature & Date) (Signature & Date)

DAILY QUALITY CONTROL REPORT

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern 1/2
USACE Contract No. W912QR-10-P-0037 Corp Technical Manager- Derek Kinder
Contractor- Prudent Technologies, Inc Contractor Project Manager- John Jent

Date 6-25-2011 (MM/DD/YEAR) Day of Week SATURDAY

Weather- General ____ Bright; ____ Sunny; ____ Clear; ✓ Overcast; ____ Rain
Temp 60-65
Wind ____ Still: ____ Moderate; ✓ High
(Humidity) ____ Dry; ____ Moderate; ✓ Humid

Contractor Personnel: AMANDA MILLER, SAM MANSY, TOMAS HERNANDEZ, JOHN JENT

Visitors on site: NONE

Subcontractors on Site - Name (Company): NONE

Equipment on Site: WEED WACKER, HAND TREE SAW

Work Performed:

1 CLEARED VEGETATION AT SAMPLE AREAS + PATHS TO THE SAMPLE AREAS AT LL-4

2 LAID OUT ~~BORING~~ GEOPROBE BORING LOCATIONS AT LOAD LINE 4

3 ~~LOOKED FOR~~ LAID OUT SAMPLE LOCATION LL35D-416M AT LL-3

4 LOOKED FOR + FOUND PREVIOUSLY DETERMINED (AUG 2010) BUILDING CORNERS AT LL-3, BLDG EB-4A, EB-10

5 LOOKED FOR + FOUND PREVIOUSLY DETREMINED BUILDING CORNERS AT LL-2, SAMPLE LOCATION LL25S-516

6 PICKED UP TRAVIS STEELE + MORGAN HELRICH AT AKRON + CLEVELAND AIRPORTS, RESPECTIVELY

Date 6-26-2011
(MM/DD/2010)

Work Performed (Continued)

Quality Control Activities (Including Field Calibrations):

LOCATED PREVIOUS BUILDING CORNER'

Health and Safety Levels and Activities:

TAILGATE ESPECIALLY TOWARD BRUSH CLEARING

Problems Encountered/Resolution or Corrective Action Taken:

FOUND LARGE WOOD PILE WITHIN SAMPLE LOCATION LL455-415 AT LL-4/ AVOIDED. VERY BAD FOOTING

Remarks:

Tomorrow's Expectations: BEGIN SURFACE SOIL & SUBSURFACE MT SAMPLING AT LLs-4, 12

Prepared by: (Signature & Date) 6-25-2011

QA Check by: (Signature & Date)

DAILY QUALITY CONTROL REPORT

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037 Corp Technical Manager- Derek Kinder
Contractor- Prudent Technologies, Inc Contractor Project Manager- John Jent

Date 6-26-2011 (MM/DD/YEAR) Day of Week SUNDAY

Weather- General ___ Bright; ___ Sunny; ✓ Clear ; ___ Overcast; ___ Rain
Temp 60-75
Wind ✓ Still: ___ Moderate; ___ High
Humidity ___ Dry; ✓ Moderate; ___ Humid

Contractor Personnel: AMANDA MILLER, TOMAS HERNANDEZ, SAM MANSY, MORGAN HELFRICH, JOHN JENT, TRAVIS STEELE

Visitors on site: NONE

Subcontractors on Site - Name (Company):

Equipment on Site: SCHSTARJ FOR SURFACE ANOMALY AVOIDANCE

Work Performed:

COLLECTED FOLLOWING SAMPLES AT LL-4

LL455-412M-0001-SO
LL455-414M-0001-SO
LL455-416M-0001-SO ALSO 416V-0001
LL455-417M-0001-SO ALSO 417V-0001
LL455-418M-0001-SO ALSO 418V-0001
LL455-419M-0001-SO
LL455-420M-0001-SO
LL458-421M-0001-SO (SUBSURFACE MI WORKED GREAT)
LL455-416M-0002-SO ALSO 416V-0002
LL455-305M-0001-SO

Date 6-26-2011
(MM/DD/2010)

Work Performed (Continued)

L12SS-306M-0001-SU
L12SS-303M-0001-SU
L12SS-304M-0001-SU
L12SS-304M-0002-SU

Quality Control Activities (Including Field Calibrations):

Health and Safety Levels and Activities:

TAILGATE MEETING STRESSED SAMPLING ACTIVITIES
ANOMALY AVOIDANCE BRIEFING + PROCEDURES FOLLED

Problems Encountered/Resolution or Corrective Action Taken:

Remarks: EQUIPMENT TO DO SUBSURFACE MI (1'-2') WORKED VERY WELL
CAN MAKE MINOR IMPROVEMENT THOUGH

Tomorrow's Expectations: SUBSURFACE MI SAMPLING AT LL-4

Prepared by: [signature] (Signature & Date) 6-26-2011

QA Check by: _____ (Signature & Date)

DAILY QUALITY CONTROL REPORT

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037 Corp Technical Manager- Derek Kinder
Contractor- Prudent Technologies, Inc Contractor Project Manager- John Jent

Date 6-27-2011 (MM/DD/YEAR) Day of Week MONDAY

Weather- General ___ Bright; ✓ Sunny; ___ Clear ; ___ Overcast; ___ Rain
Temp 60-80
Wind ✓ Still: ___ Moderate; ___ High
Humidity ___ Dry; ✓ Moderate; ___ Humid

Contractor Personnel: AMANDA MILLER, TOMAS HERNANDEZ, SAM MANSY, MORGAN HELFRICH, JOHN JENT, TRAVIS STERLE

Visitors on site: NONE

Subcontractors on Site - Name (Company): ETHAN FRONTZ / FRONTZ DRILLING

Equipment on Site: GEOPROBE MODEL 6620 T

Work Performed:

COLLECTED FOLLOWING SAMPLES AT LL-4

LL4SB-411M-0101
-0102
-0103

LL4SB-410M-0101
-0102
-0103

LL4 SB-407M-0101
-0102
-0103

LAID OUT BORING LOCATIONS AT BLDG EB-10 AT LOAD LINE 3

Date 6/27/2011
(MM/DD/2010)

Work Performed (Continued)

Quality Control Activities (Including Field Calibrations):

Health and Safety Levels and Activities:

TAILGATE SAFETY MTG

~~UXO~~ TAILGATE UXO MTG

Problems Encountered/Resolution or Corrective Action Taken:

NONE

Remarks:

Tomorrow's Expectations: COMPLETE SUBSURFACE MI DRILLING AT LL-4

Prepared by: 6-27-2011 QA Check by:
(Signature & Date) (Signature & Date)

DAILY QUALITY CONTROL REPORT

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037 Corp Technical Manager- Derek Kinder
Contractor- Prudent Technologies, Inc Contractor Project Manager- John Jent

Date 6-28-2011 (MM/DD/2010) Day of Week TUESDAY

Weather- General ___ Bright; ___ Sunny; ✓ Clear; ___ Overcast; ___ Rain
Temp ___ 50 – 70; ✓ 70 – 85; ___ 85 up
Wind ✓ Still: ___ Moderate; ___ High
Humidity ___ Dry; ✓ Moderate; ___ Humid

Contractor Personnel: AMANDA MILLER, TOMAS HERNANDEZ, SAM MANSY, MORGAN HELFRICH, JOHN JENT, TRAVIS STEELE

Visitors on site: NONE

Subcontractors on Site - Name (Company): ETHAN FRONTZ (FRONTZ DRILLING)

Equipment on Site: GEOPROBE MODEL 6620T

Work Performed:

COLLECTED FOLLOWING SAMPLES AT LL-4

LL4SB-415M-0101
-0102
-0103

LL4SB-413-0101
-0102
-0103

LAID OUT BORINGS AT BLDG DB-4A AT LL-2 AND EB-4 AT LL-3

Date 6/28/2011
(MM/DD/2010)

Work Performed (Continued)

Quality Control Activities (Including Field Calibrations):

Health and Safety Levels and Activities:

TAILGATE SAFETY MTG

TAILGATE UXO MTG

Problems Encountered/Resolution or Corrective Action Taken:

DRILLING IS SLOW - & LOUSING MATERIALS OUT OF TUBE

DRILLER IS TO GET A CATCHER

Remarks:

Tomorrow's Expectations: SUBSURFACE MT DRILLING AT LL-3, BLDG EB-10, EB-4

Prepared by: (Signature & Date) 6-28-2011 QA Check by: (Signature & Date)

DAILY QUALITY CONTROL REPORT

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037 Corp Technical Manager- Derek Kinder
Contractor- Prudent Technologies, Inc Contractor Project Manager- John Jent

Date 6-29-2011 (MM/DD/2010) Day of Week WEDNESDAY

Weather- General ___ Bright; ✓ Sunny; ___ Clear; ___ Overcast; ___ Rain
Temp ___ 50 – 70; ✓ 70 – 85; ___ 85 up
Wind ~~✓~~ Still: ✓ Moderate; ___ High
Humidity ___ Dry; ✓ Moderate; ___ Humid

Contractor Personnel: AMANDA MILLER, TOMAS HERNANDEZ, SAM MANSY, MORGAN HELFRICH, JOHN JENT, TRAVIS STEELE

Visitors on site: NONE

Subcontractors on Site - Name (Company): ETHAN FRONTZ (FRONTZ DRILLING)

Equipment on Site: GEOPROBE MODEL 6620T

Work Performed:

COLLECTED FOLLOWING SAMPLES

LL-3, BLDG EB-10

LL3SB-414M-0101-SO

LL3SB-414M-0102-SO

LL3SB-414M-0103-SO

LL3SB-415M-0101-SO

LL3SB-415M-0102-SO

LL3SB-415M-0103-SO

CHARLESTOWN S+G

CHASS-001M-0001-SO

CHASS-001N-0001-SO

Date 6/29/2011
(MM/DD/2010)

Work Performed (Continued)

CHASS-002M-0001-SD

CHASS-002V-0001-SD

CHASS-003M-0001-SD

CHASS-003V-0001-SD

Quality Control Activities (Including Field Calibrations):

Health and Safety Levels and Activities:

TAILGATE SAFETY MEETING

TAILGATE HXO MEETING

Problems Encountered/Resolution or Corrective Action Taken:

DRILLING W/CATCHER IS BETTER

Remarks:

Tomorrow's Expectations: SUBSURFACE MI DRILLING AT LL-3, BLDG EB-4

SURFACE SOIL MI AT LL-3, BLDG EB-4

LAYOUT LL-2, BLDG 2 & LL-1 BLDGS CB-4, CB-4A

Prepared by: [signature] (Signature & Date) 6-29-2011

QA Check by: (Signature & Date)

DAILY QUALITY CONTROL REPORT

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037 Corp Technical Manager- Derek Kinder
Contractor- Prudent Technologies, Inc Contractor Project Manager- John Jent

Date 6-30-2011 (MM/DD/2010) Day of Week THURSDAY

Weather- General ____ Bright; ✓ Sunny; ____ Clear; ____ Overcast; ____ Rain
Temp ____ 50 – 70; ✓ 70 – 85; ____ 85 up
Wind ____ Still: ✓ Moderate; ____ High
Humidity ____ Dry; ✓ Moderate; ____ Humid

Contractor Personnel: AMANDA MILLER, TOMAS HERNANDEZ, SAM MAHSY, MORGAN HELFRICH, JOHN JENT, TRAVIS STEELE

Visitors on site: NONE

Subcontractors on Site - Name (Company): ETHAN FRONTZ (FRONTZ DRILLING)

Equipment on Site: GEOPROBE MODEL 6620T

Work Performed:

COLLECTED FOLLOWING SAMPLES

LL-3, BLDG EB-4

LL355-423M-0001-SO

LL355-424M-0001-SO

LL35B-412M-0101-SO

LL35B-412M-0102-SO

LL35B-413M-0101-SO

~~LL35B-412M-01~~

LL35B-413M-0102-SO

LL35B-413M-0103-SO

MET W/ DON TROCHHIO - DISCUSSED SURVEY WORK FOR REMAINDER OF PROJECT

Date 6-30-2011
(MM/DD/2010)

Work Performed (Continued)

LAID OUT SUBSURFACE BORINGS AT LL-2, BLDG DB-4

Quality Control Activities (Including Field Calibrations):

Health and Safety Levels and Activities:

TAILGATE SAFETY MEETING

TAILGATE UXO MEETING

Problems Encountered/Resolution or Corrective Action Taken:

Remarks: 2ND DRILLING RIG BROUGHT TO SITE

Tomorrow's Expectations: SUBSURFACE MI DRILLING AT DB-4, DB-4A, SURFACE MI AT DB-4, LL-1 SW HALF OF BLDG CB-4A

Prepared by: [signature] (Signature & Date) 6-30-2011

QA Check by: _____ (Signature & Date)

DAILY QUALITY CONTROL REPORT

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern 1/2
USACE Contract No. W912QR-10-P-0037 Corp Technical Manager- Derek Kinder
Contractor- Prudent Technologies, Inc Contractor Project Manager- John Jent

Date 7-1-2011 Day of Week FRIDAY
(MM/DD/2010)

Weather- General ____ Bright; ✓ Sunny; ____ Clear; ____ Overcast; ____ Rain
Temp ____ 50 – 70; ____ 70 – 85; ✓ 85 up
Wind ____ Still: ____ Moderate; ____ High
Humidity ____ Dry; ____ Moderate; ____ Humid

Contractor Personnel: AMANDA MILLER, TOMAS HERNANDEZ, SAM MAHSY, MORGAN HELFRICH, JOHN JENT, TRAVIS STEELE

Visitors on site: NONE

Subcontractors on Site - Name (Company): ETHAN FRONTZ, RICKIE SHANKS (FRONTZ DRILLING)

Equipment on Site: GEOPROBE MODEL 6620T (TRACK) + GEOPROBE MODEL 6620 ON FORD F-550 TRUCK

Work Performed:

COLLECTED FOLLOWING SAMPLES

LL-2 BLDG DB-4A	LL-2 BLDG DB-4
LL2SB-514M-0101	LL2SB-512M-0101
-0102	-0102
-0103	-0103
LL2SB-515M-0101	LL2SB-513M-0101
-0102	-0102
-0103	-0103

EQUIPMENT RINSATE 1

LAID ~~OUT~~ OUT BORING LOCATIONS @ LL-1, BLDG CB-1

COORDINATED SURVEYING EFFORTS WITH DON TROCHIMO

Date 7-1-2011
(MM/DD/2010)

Work Performed (Continued)

Quality Control Activities (Including Field Calibrations):

Health and Safety Levels and Activities:

TAILGATE SAFETY MEETING

TAILGATE UXO MEETING

Problems Encountered/Resolution or Corrective Action Taken:

Remarks: 2ND RIG IN OPERATION HELPS A LOT

Tomorrow's Expectations: REMAINING SURFACE SOIL DISCRETE ~~MI SOIL~~ AND SEDIMENT MI SAMPLES

Prepared by: _____ (Signature & Date) 7-1-2011

QA Check by: _____ (Signature & Date)

DAILY QUALITY CONTROL REPORT

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037 Corp Technical Manager- Derek Kinder
Contractor- Prudent Technologies, Inc Contractor Project Manager- John Jent

Date 7-2-2011 (MM/DD/2010) Day of Week SATURDAY

Weather- General ___ Bright; ___ Sunny; ___ Clear ; ✓ Overcast; ___ Rain
Temp ___ 50 – 70; ✓ 70 – 85; ___ 85 up
Wind ___ Still: ✓ Moderate; ___ High
Humidity ___ Dry; ___ Moderate; ✓ Humid

Contractor Personnel: SAM MANSY, MORGAN HELFRICH, JOHN JENT, TRAVIS STERLE

Visitors on site: NONE

Subcontractors on Site - Name (Company): NONE

Equipment on Site: NONE

Work Performed:

COLLECTED FOLLOWING SAMPLES

LL-3 LL35D-416M-0001-SD SD
LL35D-416V-0001-SD SD
LL35D-417M-0001-SD SD
LL35D-417V-0001-SD SD
LL35D-418M-0001-SD SD
LL35D-418V-0001-SD SD
LL355-419M-0001-SO
LL355-419M-0002-SD
LL35B-420M-0001-SO
LL355-421M-0001-SO

Date 7-2-2011
(MM/DD/2010)

Work Performed (Continued)

LL3 SB-422M-0001-SO

~~LL3~~ LL255-519M-0001-SO

Quality Control Activities (Including Field Calibrations):

Health and Safety Levels and Activities:

TAILGATE SAFETY MEETING

TAILGATE UXO MEETING

Problems Encountered/Resolution or Corrective Action Taken:

HAD RAIN + LIGHTNING FOR SHORT PERIOD -

RETREATED TO BLDG 1036

Remarks:

Tomorrow's Expectations: FINISH SURFACE SOIL & MI SAMPLING

Prepared by: [signature] 7-2-2011 QA Check by:
(Signature & Date) (Signature & Date)

DAILY QUALITY CONTROL REPORT

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037 Corp Technical Manager- Derek Kinder
Contractor- Prudent Technologies, Inc Contractor Project Manager- John Jent

Date 7-3-2011 (MM/DD/2010) Day of Week SUNDAY

Weather- General ____ Bright; ____ Sunny; ____ Clear ; ✓ Overcast; ____ Rain
Temp ____ 50 – 70; ✓ 70 – 85; ____ 85 up
Wind ____ Still: ____ Moderate; ____ High
Humidity ____ Dry; ____ Moderate; ____ Humid

Contractor Personnel: SAM MANSY, JOHN JENT, TRAVIS STEELE, THOMAS HERNANDEZ, AMANDA MILLER

Visitors on site: NONE

Subcontractors on Site - Name (Company): NONE

Equipment on Site: NONE

Work Performed:

COLLECTED FOLLOWING SAMPLES

LL-2 LL255-516M-0001-SO
LL255-516V-0001-SO
LL255-516M-0002-SO
LL255-516V-0002-SO
LL255-517M-0001-SO
LL255-517V-0001-SO
LL255-518M-0001-SO
LL255-518V-0001-SO
LL255-518M-0002-SO
LL255-518V-0002-SO

LL-12 LL255-300M-0001-SO
LL255-300V-0001-SO
LL255-301M-0001-SO
LL255-301V-0001-SO
LL255-302M-0001-SO
LL255-302V-0001-SO

Date 7-3-2011
(MM/DD/2010)

Work Performed (Continued)

LAID OUT BORING LOCATIONS AT LL-1

Quality Control Activities (Including Field Calibrations):

Health and Safety Levels and Activities:

TAILGATE SAFETY MEETING

TAILGATE UXO MEETING

Problems Encountered/Resolution or Corrective Action Taken:

NONE

Remarks:

Tomorrow's Expectations: TUESDAY- COMPLETE SUBSURFACE BORINGS AT LL-1

Prepared by: _____ (Signature & Date) 7-3-2011 QA Check by: _____ (Signature & Date)

DAILY QUALITY CONTROL REPORT

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern 1/2
USACE Contract No. W912QR-10-P-0037 Corp Technical Manager- Derek Kinder
Contractor- Prudent Technologies, Inc Contractor Project Manager- John Jent

Date 7-5-2011 (MM/DD/2010) Day of Week TUESDAY

Weather- General ___ Bright; ✓ Sunny; ___ Clear; ___ Overcast; ___ Rain
Temp ___ 50 – 70; ___ 70 – 85; ✓ 85 up
Wind ✓ Still: ___ Moderate; ___ High
Humidity ___ Dry; ✓ Moderate; ___ Humid

Contractor Personnel: SAM MANSY, JOHN JENT, TRAVIS STEELE, THOMAS HERNANDEZ, AMANDA MILLER

Visitors on site: NONE

Subcontractors on Site - Name (Company): ETHAN FRONTZ, RICKIE SHANKS (FRONTZ DRILLING)

Equipment on Site: GEOPROBE MODEL 6620 T (TRACK) + GEO PROBE MODEL 6620 ON FORD F-550 TRUCK

Work Performed:

COLLECTED FOLLOWING SAMPLES

LL1SB-644M-0101-SO	LL1SB-645M-0101-SO	LL1SB-646M-0101-SO
LL1SB-644V-0101-SO	LL1SB-645V-0101-SO	LL1SB-646V-0101-SO
LL1SB-644M-0102-SO	LL1SB-645M-0102-SO	LL1SB-646M-0102-SO
LL1SB-644V-0102-SO	LL1SB-645V-0102-SO	LL1SB-646V-0102-SO
LL1SB-644M-0103-SO	LL1SB-645M-0103-SO	LL1SB-646M-0103-SO
LL1SB-644V-0103-SO	LL1SB-645V-0103-SO	LL1SB-646V-0103-SO

LL1SB-643M-0101-SO	LL1SB-640M-0101-SO
LL1SB-643M-0102-SO	LL1SB-640M-0102-SO
LL1SB-643M-0103-SO	LL1SB-640M-0103-SO

Date 7-5-2011
(MM/DD/2010)

Work Performed (Continued)

Quality Control Activities (Including Field Calibrations):

Health and Safety Levels and Activities:

TAILGATE SAFETY MEETING

TAILGATE UXO MEETING

Problems Encountered/Resolution or Corrective Action Taken:

NONE

Remarks:

Tomorrow's Expectations: WEDNESDAY- COMPLETE SUBSURFACE BORINGS AT LL-1

Prepared by: [signature] 7-5-2011
(Signature & Date)

QA Check by: _____
(Signature & Date)

DAILY QUALITY CONTROL REPORT

Project- Final Sampling & Closure of Load Lines 1, 2, 3, 4, 12, and Other Areas of Concern
USACE Contract No. W912QR-10-P-0037 Corp Technical Manager- Derek Kinder
Contractor- Prudent Technologies, Inc Contractor Project Manager- John Jent

Date 7-6-2011 (MM/DD/2010) Day of Week WEDNESDAY

Weather- General ___ Bright; ✓ Sunny; ___ Clear ; ___ Overcast; ___ Rain
Temp ___ 50 – 70; ___ 70 – 85; ✓ 85 up
Wind ✓ Still: ___ Moderate; ___ High
Humidity ___ Dry; ✓ Moderate; ___ Humid

Contractor Personnel: SAM MANSY, JOHN JENT, TRAVIS STEELE, TOMAS HERNANDEZ, AMANDA MILLER

Visitors on site: NONE

Subcontractors on Site - Name (Company): ETHAN FRONTZ, RICKIE SHANKS (FRONTZ DRILLING)

Equipment on Site: GEOPROBE MODEL 6620 DT (TRUCK MOUNTED)

Work Performed:

COLLECTED FOLLOWING SAMPLES

LLI SB-641M-0101-SO

LLI SB-641M-0102-SO

LLI SB-641M-0103-SO

LLI SB-642M-0101-SO

LLI SB-642M-0102-SO

LLI SB-642M-0103-SO

EQUIPMENT RINSATE 2-(1-11)

CLEANED UP & SECURED AREA

Date 7-6-2011
(MM/DD/2010)

Work Performed (Continued)

Quality Control Activities (Including Field Calibrations):

Health and Safety Levels and Activities:

TAILGATE SAFETY MEETING

TAILGATE UXO MEETING

Problems Encountered/Resolution or Corrective Action Taken:

NONE

Remarks:

Tomorrow's Expectations: RETURN HOME

Prepared by: _____ (Signature & Date) 7-6-2011

QA Check by: _____ (Signature & Date)

From: Steve Wright (swright@frontzdrilling.com)
To: jpjent@prudentweb.com;
Date: Tue, July 12, 2011 8:59:43 AM
Cc:
Subject: [No Subject]

John:

The rig we used was also a Geoprobe 6620. It was mounted on a Ford F-550 truck.

If you have any other questions do not hesitate to contact me.

Thanks

Stephen R. Wright
Environmental Services Manager
FRONTZ DRILLING
WOOSTER, OHIO
Office: 330-262-5301
Fax: 330-264-7242
Cell: 330-465-6685

Appendix D – Field Boring Logs

(Provided in the attached CD)

411M-7

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-68-7

Sheet: 1 of 1

Date: 6-27-11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: AM & MH Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: ~~2'5~~ 61" Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
					SW	first 7" is sandy w/organics		9:12 AM
		39		Ø	GM	7-12" slag w/ gravel		
					CL	12-16" becoming ~~clay~~		
						16-39" is dense clay		
5						All is reddish brown	5	
		92		Ø	CL	Dense clay 0-2"		9:20
					SW	sandy w/organics 2-6"		became saturated
					CL CH	6-22" vfg clay		@ 53"
						same red brown color		
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-411M-6

Sheet: 1 of 1

Date: 6-27-11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: MH Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: 45" Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	25"			Ø	SW	0-4" sandy w/ organics redish brown fill		9:34
					GM			
					CL	4-8" sandy w/ darker black coloration fill		
					GM			
					CL	8-10" sandy w/ gravel		
5					CL	10-25" dense clay of redish brown	5	
	20"			Ø	GM			
					CL			
					SP			
					CH	25-27" sandy w/ mixed clay & gravel red/brown		
						27-34 dense clay red/brown		
10						34-38 sandy w/ clay mix	10	
						38-45 saturated clay red/brown		
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services Inc

BORING LOG: LL4-411M-8

Sheet: 1 of 1

Date: 6-27-11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ | Logged By: MH | Reviewed By: _____

Drilled By: _____ | Driller: _____ | Drilling Method: _____

Total Depth: 70" | Sampling Method: _____ | Groundwater Depth: _____

Groundwater Measurement: _____ | TOC Elevation: _____ | Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
					GM	0-5" sand & gravel fill		
		47		Ø	CL	5-47" silty platy clay all red/brown		
5							5	
		13		Ø	CL GM ML CL ML	47-49" silty platy clay 49-51" sandy w/gravel 51-54" finegrain sand/silt 54-65" wet clay platy 65-70" fg sand all red/brown		
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-411M-5

Sheet: 1 of 1

Date: 6-27-11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: MH Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: 65" Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
				0	GC	0-7" sandy fill brown		
					OL	7-14" black organic clay w/ slag		
		44"			CL	14-44" silty platy clay brown/red		
5					CL	44-49" silty platy clay	5	
		21			CL	49-57" saturated clay		
						57-65" silty platy clay all greyish in color		
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4 - 411M -3

Sheet: 1 of 1
Date: 6-27-11

Site Name: _____
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____
Logged By: MH
Reviewed By: _____
Drilled By: 58
Driller: _____
Drilling Method: _____
Total Depth: _____
Sampling Method: _____
Groundwater Depth: _____
Groundwater Measurement: _____
TOC Elevation: _____
Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
					GC	Sandy ~~Fill~~ Fill w/ gravel & slag. moist grey & brown in color 0-14"		
		27		Ø	CL	14-27" silty plasty clay		
5					SP CL SP	27-29" sandy gravely w/ silt	5	
		31			CL	29-33" silty clay		
						33-35" brown sand		
						35-58" silty plasty clay		
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: CL4-411M-2

Sheet: 1 of 1

Date: 6-27-11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: MH Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: 60 Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
					GM	0-5 poorly sorted sand brown/red		
		36		0	CL	5-36 BRT clay plasty		
5						36-60 plasty clay	5	
		24		0	CL			
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-411M-1

Sheet: 1 of 1

Date: 6-27-11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: MH Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: 45 Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
				0	GM	0-13 coarse sandy brown/grey fill w/ organics		
		25		0	GM	13-15 dark red sand		
					CL	15-25 grey/brown clay		
5							5	
		20			CL	25-45 grey/brown mixed clay		
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-411M-4

Sheet: 1 of 1

Date: 6-27-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No:

Logged By: MH

Reviewed By:

Drilled By: SJ

Driller:

Drilling Method:

Total Depth: 54

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
5		28		Ø	GM	0-13 coarse red/brown gravelly sand w/ some gry layers	5	
					CL	13-28 brown & gry clay		
		26			GM CL	28-38 red/brown sand w/ gravel & silt		
						38-54 brown & gry clay		
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-407M-8

Sheet: 1 of 1
Date: 6-27-11

Site Name: _____
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ | Logged By: MH | Reviewed By: _____
Drilled By: _____ | Driller: _____ | Drilling Method: _____
Total Depth: 72 | Sampling Method: _____ | Groundwater Depth: _____
Groundwater Measurement: _____ | TOC Elevation: _____ | Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		49		Ø	~~SM~~ CL	0-4 silty clay w/ organics 4-49 dense clay all brwn y/gry		
5		42			~~SM~~ CL SM→ ML→	49-53 red/brwn silt ~~53-69 red/brwn sand w/ silt~~ ~~61-69~~ 53-61 red/brwn clay 61-65 red/brwn sand 65-72 grading from sand to silt to clay to silt	5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services Inc

BORING LOG: LL4 - 407M7

Sheet: 1 of 1
Date: 6-27-11

Site Name: _____
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: ALM Reviewed By: _____
Drilled By: _____ Driller: _____ Drilling Method: _____
Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____
Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0							0	12:17pm
		56"		Ø	CL	first ~7" is brown clay with slag, then ~20" of brown & orange-brown clay with silt. Last ~29 in is brown uniform clay, platy with some silt.		
5							5	
		31"		Ø	CL	Similar to last ~29" - brown to orange clay & silt, platy		12:24pm
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-407M-6

Sheet: 1 of 1

Date: 6-27-11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: ALM Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: _____ Sampling Method: ~~ALM~~ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0						first ~~sa~~ in. is slag + organic	0	12:40pm
		50"		Ø	CL	then ~ 8in soft brown-org. clay with silt, then rest of ~~samp~~ boring is brown, uniform, platy clay.		
5							5	
		26"		Ø	CL	platy, clay with some silt. Last 4 inches in swollen clay + silt (cow liver).		12:48pm
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-407-5

Sheet: 1 of 1
Date: 6-27-11

Site Name: _____
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: AM Reviewed By: _____
Drilled By: _____ Driller: _____ Drilling Method: _____
Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____
Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	58"				CL	first ~5in. is slag + organic, then platy clay light tan-orange in color, uniform thru out rest of boring. More orange as it gets deeper	0	12:57pm
5	24"				CL	tan + orange clay, platy, uniform some specks of red/brown	5	1:03pm
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-407M-4

Sheet: 1 of 1

Date: _____

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: AUM Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0					GC	light brown clay + gravel with slag - mostly fill material first 1/16 in. Next ~25 inches is brown clay + gravel with more sand than top 1/16 in.	0	1:13pm ~~1:58pm~~
5		41"			CL	Clay, platy with gravel and slag, light brown	5	1:16pm
		8in.						
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-407M-3

Sheet: 1 of 1
Date: 6-27-11

Site Name: _____
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ | Logged By: ALM | Reviewed By: _____
Drilled By: _____ | Driller: _____ | Drilling Method: _____
Total Depth: _____ | Sampling Method: _____ | Groundwater Depth: _____
Groundwater Measurement: _____ | TOC Elevation: _____ | Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0							0	
	57"			ϕ	CL	brown clay somewhat orange, uniform otherwise, platy some silt		2:49pm
5							5	
	24"			ϕ	CL/SC	^12in is uniform, platy clay w/ brown. Last 12" is orange-brown sand w/ some silt		2:55pm
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-407M-2

Sheet: 1 of 1
Date: 6-27-11

Site Name: _____
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: AUM Reviewed By: _____
Drilled By: _____ Driller: _____ Drilling Method: _____
Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____
Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				0	SP/CL	1st 16 inches is organic material with gravel, sand, silt + clay. Brown. Last ~11 inches is clay	0	slag present 3:01pm
5	27"			0		brown clay uniform. Last 8in is gravely clay with ~3in of sand at the end	5	3:04
10	21"						10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-40TM-1

Sheet: 1 of 1
Date: 6-27-11

Site Name: _____
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: ALM Reviewed By: _____
Drilled By: _____ Driller: _____ Drilling Method: _____
Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____
Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		52"		Ø	SP/CL	1st ~8inches is organic and clay with some sand & silt. 2 rock/gravel seams are present @ ~9-11inches & ~20-22inches. In between are clay and silt. At ~23" is gray clay trans. to brown clay. Uniform.		3:19pm
5		26"		Ø	CL	brown to lt. brown clay, uniform, somewhat platy, some pieces of gravel	5	
								3:24pm
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-410M-01

Sheet: 1 of 1
Date: 6-27-11

Site Name: _____
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: AUM Reviewed By: _____
Drilled By: _____ Driller: _____ Drilling Method: _____
Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____
Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		28"		Ø	SP	first ~8in is sand and gravel brown. Then sandy clay with gravel brown with some yellow	0	3:35pm
5		21"		Ø		first-8inches is sand and silt with some gravel. Last ~8in is ~~we~~ moist gravel & clay	5	3:37pm wood pieces present and small piece (~1.5") of red stained
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services Inc

BORING LOG: LL4-410M-02

Sheet: 1 of 1
Date: 6-27-11

Site Name: _____
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: AUM Reviewed By: _____
Drilled By: _____ Driller: _____ Drilling Method: _____
Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____
Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				∅	SC	brown sand at first ~8in. then gray gravely sand for ~4inches. Last ~13in is light tan/brown gravel and clay with slag at last inch.	0	3:48pm
		26"						
5				∅	CL	clay somewhat moist-swollen, light brown with some sand at top ~7in. then dryer clay, uniform and platy last ~18in.	5	3:52
		25"						
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-415M-08

Sheet: 1 of 1

Date: 6-28-2011

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: ALM Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval / % Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	52"		Ø	CL	About 1.5 feet ~~from~~ top is dry clay brown to orange ~~then~~ with a gravel seam. Transitions to gray orange clay.	0	11:06am
5	28"		Ø	CL	Uniform clay, soft gray and orange.	5	11:06am
10						10	
15						15	
20						20	
25						25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-410M-03

Sheet: 1 of 1

Date: 6-27-11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: ALM Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0							0	3:58pm
		28"		∅	SC	first ~14in. is sandy, silty clay with some gravel then clay, brown + uniform @ last ~14in.		wood pieces present in 1st foot with black organics.
5		24"		∅	CL	brown, uniform, platy clay	5	wood present @ top ~10in.
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-410M-04

Sheet: 1 of 1

Date: 6-27-11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: ALM Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0							0	4:10pm
		27"		∅	SC	Timber pieces and black organics present @ ~14 in. first ~14in. is sandy silts w/ some gravel. Brown. Last ~11in. is uniform, platy clay brown. Timber present @ last ~2in.		- wood present
5		21"		∅	CL	brown, uniform clay some is dark brown/gray	5	4:13pm
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-410M-05

Sheet: 1 of 1
Date: 6-27-11

Site Name: _____
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____
Logged By: ALM
Reviewed By: _____
Drilled By: Front 2
Driller: Ethan
Drilling Method: _____
Total Depth: 7 feet
Sampling Method: _____
Groundwater Depth: _____
Groundwater Measurement: _____
TOC Elevation: _____
Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				Ø	SC/CL	first 7-8 inches is moist sandy and clay fill material w/ organic mat. at top. Then brown clay with little silt.	0	4:38pm
5		29"		Ø	CL	uniform, platy, brown clay with a rock seam @ 4 inches from top	5	4:42pm
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-410M-06

Sheet: 1 of 1
Date: 6-27-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No:
Logged By: ALM
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth:
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	20"			Ø	SM/CL	Sandy silt, moist, some gravel first ~10inches, then brown clay	0	4:59pm
5	19"			Ø	CL	brown clay with a gravel seam at ~4in. then another gravel seam @ ~8 and ~12in.	5	5:04pm
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-410M-07

Sheet: 1 of 1
Date: 6-27-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No:
Logged By: ALM
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth:
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				∅	SM/CL	brown sandy, silt + some gravel towards ~~bot~~ ~10inches, then brown clay	0	5:14pm timber present @ top foot
		28"						
5				∅	CL	brown clay, then ~6inches is a gravel seam, then brown clay with tracc silt.	5	5:16pm
		29"						
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services Inc

BORING LOG: LL4-410M-DB

Sheet: 1 of 1

Date: 6-27-11

Site Name: DVAAP LL1-4, 12

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510061

Logged By: ALM

Reviewed By:

Drilled By: Frontz

Driller: Ethan

Drilling Method: push probe

Total Depth: 7'

Sampling Method: Split spoon

Groundwater Depth: NA

Groundwater Measurement: Ø N/A

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				Ø		sand + silt, trace gravel + slag first ~9 inches, then more clay. Last ~15 inches is brown clay.	0	Timber present in first foot. 5:32pm ↳ made three attempts to get better recovery. Hitting rock
5	24"			Ø		brown clay with trace slag around ~4 inches, then clay for ~8 inches with ~2 in. sand seam - moist, last ~14in. is moist, swollen clay.	5	5:26pm
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-415M-2

Sheet: 1 of 1

Date: _____

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: ALM Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0							0	8:50 am
		41"		Ø	CL	first ~5 inches is topsoil - organic material dark brown for ~ 10 in. - clay. Then clay is platy uniform and orange and lite gray for rest of boring.		
5							5	
		24"		Ø				8:56 am
					SC/ ML	first ~12 in. is moist silty clay - light brown to tan. Then sandy clay with ~~trace~~ organics and gravel (~8in) then ~4in of moist silty clay followed by clay.		
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services Inc

BORING LOG: LL4-415M-3

Sheet: 1 of 1
Date: 6-28-11

Site Name: _____
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ | Logged By: ALM | Reviewed By: _____
Drilled By: _____ | Driller: _____ | Drilling Method: _____
Total Depth: _____ | Sampling Method: _____ | Groundwater Depth: _____
Groundwater Measurement: _____ | TOC Elevation: _____ | Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		38"		Ø	CL	first ~4in is top soil - drk. brown, transitions to light brown/tan, orange, gray. That soil is ~32 in. clay, uniform w/ trace organics.	0	9:35 am
5		23"		Ø	SC/CL	moist sandy clay (cow liver) at ~14in. is a sandstone seam, then dry, uniform brown clay.	5	9:39 am
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-415M-5

Sheet: 1 of 1

Date: 6-28-2011

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: AUM Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0							0	9:07 am
		44"		Ø	CL	first ~4 inches is dark brown silty clay w/ org. mat. then ~18 inches of dry, platy clay, grayish brown w/ some orange. Last ~22 inches is slightly moister soil - clay, platy.		
5		14"		Ø	CL	soft uniform clay orange, gray + brown colors ~~with trace organics~~	5	9:24 a.m
10							10	
15							15	
20							20	
25							25	

01

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services Inc

BORING LOG: LL4-415M-03

Sheet: 1 of 1
Date: 6-28-2011

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No:
Logged By: ALM
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth:
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		58"		0		first ~5in. is top soil then @ ~14 in. is charcoal and clay is darker grays transitions to brown + orange btw ~15-17inch. Remaining boring is orange to lt. gray uniform clay. A sandseam is present @ 3 in. from end		9:58am
5		29"		0			5	9:59am
						brown, orange uniform clay. A sandseam is present @ ~6 in. from top, then uniform clay, then sand + gravel @ ~17 inches, then brown uniform clay, then last ~3 inches is sand + silt - orange + brown.		
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services Inc

BORING LOG: LL4 - 415M - 04

Sheet: 1 of 1

Date: 6-28

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: | Logged By: | Reviewed By:

Drilled By: | Driller: | Drilling Method:

Total Depth: | Sampling Method: | Groundwater Depth:

Groundwater Measurement: | TOC Elevation: | Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				Ø	CL	Silty clay first 16 inches then clay and gravel for ~10 inches, then drk. gray clay w/ some orange then transitions to brown-orange uniform clay.	0	10:15am
5		50"					5	
		27		Ø	CL	Soft brown to light brown clay then ~9 in. from top is a sandy silt ~~clay~~ seam w/ trace gravel then last ~8 in. is clay.		10:15am
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-415M-07

Sheet: 1 of 1

Date: 8-28-2011

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: AUM Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0						~4 in. of drk. brown clayey soil. Then dry platy clay brown to gray. Transitions to softer clay brown to orange. trace organics.	0	10:30 am
		55"		Ø				
5						soft clay gray to orange, uniform. Timber pieces at top ~5 inches.	5	10:37 am
		33"		Ø				
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services Inc

BORING LOG: LL4-415M-6

Sheet: 1 of 1

Date: 6-29-11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: ALM Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	52"			∅	CL	Top ~4 in. is dark clay w/ organics then dry, silty clay w/ trace organic material - brown to gray transitions to gray clay ~2 feet, then orange to gray uniform clay.		10:46am
5	29"			∅	SM SC	clay with sand - gray to orange/brown, platy for 1st ~20 inches, then swollen clay with sand for ~7in. then last ~2 in. is uniform clay.	5	10:51am
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-413M-2

Sheet: 1 of 1

Date: 6-28-11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: ALM Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				Ø		boring is gray to orange clay similar to previous Trace gravel near top 1.5 feet	0	12:44pm
		57"						
5				Ø			5	
		21"				Clay is uniform gray and orange.		12:44pm
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-413M-05

Sheet: 1 of 1

Date: _____

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: AyM Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				Ø		top is organics and dark soil w/ clay. Next dry clay lt. brown. At ~20 inches is ~~stick~~ piece of wood. Then uniform clay - brown to orange and gray.	0	1:02pm timber present @ top ~6 in.
5	48"			Ø		Entire boring is gray and orange clay with trace organics.	5	1:02pm
10	20"						10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-413M-01

Sheet: 1 of 1

Date: 6-28-11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: ALM Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				Ø		organics and dark brown clay. @ ~2 feet is a gravel seam. The rest of the boring is clay - orange to gray. Timber @ ~15in from end.	0	1:16pm Timber present
5	51"						5	
	27"			Ø		Entire sample is clay gray, orange + brown. Trace sand present @ last ~4 inches.		1:21pm
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services Inc

BORING LOG: LL4-413M-04

Sheet: 1 of 1

Date:

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No:

Logged By:

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth:

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0					CL	organic debris with pebbles top ~5 inches, then clay	0	near utility line / man hole
		39"			SC	of gray color then @ ~20 inches sandstone seam about ~3 inches		
5		9"			SC	then gray and orange clay then last ~8 in is sand - brownish orange. all 9 inches is brown-orange sand w/ clay.	5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-413-07

Sheet: 1 of 1
Date: 6-28-11

Site Name: _____
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: _____ Reviewed By: _____
Drilled By: _____ Driller: _____ Drilling Method: _____
Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____
Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0							0	~~1.45pm~~ not enough
		31"		0	SC	Sandstone seam @ ~1.5 feet from top and @ ~6in. from end. Rest is sandy clay - all brown to lt. brownish		2:05pm
5							5	
		17"		0	SC	Sample is all sandy clay - brown to light brown		2:08
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LLY-413M-03

Sheet: 1 of 1
Date: 6-28-11

Site Name: _____
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ | Logged By: AUM | Reviewed By: _____
Drilled By: _____ | Driller: _____ | Drilling Method: _____
Total Depth: _____ | Sampling Method: _____ | Groundwater Depth: _____
Groundwater Measurement: _____ | TOC Elevation: _____ | Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	4 ft			Ø	CL	gravel and organic mat top ~3 inches then brown clay some grays for rest of sample.	0	2:28 pm
5	3 1/2"			Ø	C	soft, platy uniform clay - orange + gray in color	5	2:28pm
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL4-413-06

Sheet: 1 of 1
Date: 6-28-11

Site Name: _____
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: ALM Reviewed By: _____
Drilled By: _____ Driller: _____ Drilling Method: _____
Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____
Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				Ø	GC	sandy clay and pebbles	0	pushed to 5 Feet, only used bottom 8 inches for 1-3 foot Sample. Pushed 3 times 3:01pm
5	12"			Ø			5	pushed to 7 feet all sample fell out bc no catcher was available. No sample
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-413M-08

Sheet: 1 of 1

Date: 6-28-2011

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: ALM Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval / % Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	57"		Ø	CL	Sandstone seam present @ ~12inches, gray & orange clay-uniform rest of sample.	0	3:14pm
5	31"		Ø	CL	gray to brown clay, uniform, some Fe_2O_3 present.	5	3:18pm
10						10	
15						15	
20						20	
25						25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3-415M-01

Sheet: 1 of 1

Date: 6-29-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-10 | Logged By: MH & AM | Reviewed By:

Drilled By: | Driller: | Drilling Method:

Total Depth: 48" | Sampling Method: | Groundwater Depth:

Groundwater Measurement: | TOC Elevation: | Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				0	GC	Poorly sorted sandy w/silt & cobbles brown w/ organics & starts to turn grey 2ft in. slag cobbles at 3ft then grades into brwn/gry clay @ 5ft.	0	~~1st~~ 8:57am
5	34"				SC		5	1st push to 6'
	12"				SC	brwn fg sand w/ blunt transition to poorly sorted grey sand. Blunt transition to brwn clay at last 3"		
10					CL		10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3-415M-02

Sheet: 1 of 1

Date: 6/29/11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-10

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 22"

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		22"		Ø	SM/CL	Dark brown silty clay grading to a dense clay. Blunt transition to lt. brown sand (fg).	0	Pushed 1st time to 2½ ft. Refusal @ 3ft @ 9:42.
5							5	sampled 2nd push. ~~tr~~ ~~trying~~ Pushed 3Xs total. Refusal @ 3ft, stop push
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3-415M-03

Sheet: 1 of 1

Date: 6.29.11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-10

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 21"

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		2/11		Ø	SM	white/tan fg sandy fill. transition to a lt. brwn sitly sand. well sorted	0	• Pushed 1st time to 3ft w/ very little recovery. Hit refusal @ 3ft.
5							5	• Push 2 hit refusal at 2 3/4 ft.
10							10	• Push 3 = refusal at 3ft.
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-415M-04

Sheet: 1 of 1
Date: 6-29-11

Site Name: _____
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-10 | Logged By: MH | Reviewed By: _____
Drilled By: _____ | Driller: _____ | Drilling Method: _____
Total Depth: 25" | Sampling Method: _____ | Groundwater Depth: _____
Groundwater Measurement: _____ | TOC Elevation: _____ | Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		28		Ø	GC ↓ SM/CL	Using Push 3 as sample. Poorly sorted vfg silt/sand & cobbles. lt. brwn 1st 10". fewer cobbles after 10". 10-12" very lt. brwn sandy material w/ interbedded clay. Blunt transition to dark brwn/red clay/silt 12-14" last few inches, a sandy red. w/ interbedded grey clay	0	• Push 1 - hit refusal @ 3ft. • Push 2 - hit refusal @ 3ft. • Push 3 - hit refusal @ 3ft
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3 - 415M - 05

Sheet: 1 of 1
Date: 6-29-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-10
Logged By: MH
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth: 27"
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		25" / 27"		Ø	GC	Poorly sorted silt/sand/pebbles brwn in color. slag at 6" & turning grg then back to dark brwn. transitioning clay & sand layers. Turned to lt. brwn fg sand w/ grey clay layers at 20".	0	• Push 1 - refusal at 3ft. • Push 2 - refusal at 3ft. • Push 3 - refusal at 3ft.
					SM/CL			
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3-415M-06

Sheet: 1 of 1

Date: 6-29-11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: AUM Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
								11:42am
		29		Ø	SC	first ~4in. is gravel, sand + clay then ~3 in of dark red/brown silty clay, then ~8in. of sand + sandstone, then ~4in of dark red/brown silty clay then last ~10 in. is sand + SS.		1st push is 5 feet
		16 in.		Ø				2nd push to 5 feet
5							5	3rd push to 5.5 feet used 3rd push @ 11:48
					SC	Entire sample is sand + sandstone w/ clay. light tan.		
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3-415M-07

Sheet: 1 of 1
Date: 6-29-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No:
Logged By: AUM
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth:
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
								12:05pm
		26"		Ø	CL	greenish-gray clay until last ~4in is slag, then 1 inch of sand + sandstone. Organic debris @ top.		1st push to 5 feet X 3
		13"		Ø				12:07pm
5					SC	sand + sandstone light orange, tan with some gray. Last ~8inches more gray color + more clay.	5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services Inc

BORING LOG: LL3-415M-08

Sheet: 1 of 1
Date: 6-29-11

Site Name: _____
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: ALM Reviewed By: _____
Drilled By: _____ Driller: _____ Drilling Method: _____
Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____
Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
								12:39pm
		28"		Ø	SC	sample is fill material consisting of sand, gravel, organic material clay + silt.		pushed to 4.5 feet
		10"		Ø				pushed to 4 feet
								4 X 2
5						moist silty clay with gravel - dark gray to brown. Terminates @ 5S.	5	12:32pm
								timber present @ 1 foot - smelled like petroleum.
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-415M-09

Sheet: 1 of 1

Date: 6-29-11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: ALM Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		10"		Ø	CL	fill material with organic material, slag sandstone and clay	0	pushed 3 times to 2 feet.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3-415M-10

Sheet: 1 of 1
Date: 6-29-11

Site Name: _____
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ | Logged By: ALM | Reviewed By: _____
Drilled By: _____ | Driller: _____ | Drilling Method: _____
Total Depth: _____ | Sampling Method: _____ | Groundwater Depth: _____
Groundwater Measurement: _____ | TOC Elevation: _____ | Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		24"		Ø	SC	Sand + SS @ ~3 inches, then slag for ~6 inches, platy clay-crumbly gray to brown. Terminates at sandstone.	0	1st push to 2.25' 2nd & 3rd @ 2.25'
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3-414M-10

Sheet: 1 of 1
Date: 6-29-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-10
Logged By:
Reviewed By:
Drilled By:
Driller: MH
Drilling Method:
Total Depth: 24"
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		24"		Ø	GM	Poorly sorted brown sandy fill. slag @ 10". sandy silt after slag 10"-19". Vein of dark organics & dark red clay 19-20". Brown & grey silty clay 20-24".	0	· Push 1 - refusal at 2.5ft. · Push 2 - refusal at 2ft · Push 3 - refusal at 3ft ← sampled
5					SC		5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LLJ-414M-09

Sheet: 1 of 1

Date: 6-29-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-10

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 32"

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0							0	• Push 1 - refusal at 4ft
	25"			Ø	SM	Dark brown sandy/silt w/ slag, at 3" & 19". grain size fining toward bottom.		• Push 2 - refusal at 3½ ft
	7"			Ø	↓			
5					CL	Sandy silt & clay. Dark brown w/ some ~~cobbles~~ rock frags	5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3-414M-08

Sheet: 1 of 1
Date: 6-29-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-10
Logged By: MH
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth: 16"
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		16"		Ø	GC	Grey clays mixed w/ brown/ tan sandy/silt. Mixed slag	0	Push 1 - refusal at 3ft.
5							5	Push 2 - refusal at 3ft
10							10	Push 3 - refusal at 3ft
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services Inc

BORING LOG: LL3 - 414M - 07

Sheet: 1 of 1
Date: 6-29-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-10
Logged By: MH
Reviewed By:

Drilled By:
Driller:
Drilling Method:

Total Depth: 22"
Sampling Method:
Groundwater Depth:

Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		22"			GC/SM	lt. brwn sandy fill & layered grey clay. 6" down brwn sandy silt. 16" down grey clay layer ~5". Last ~4" is lt. tan sandy fill w/ ~~stag~~ rock. ~~cobbles~~	0	• Push 1 - refusal at 1.5ft • Push 2 - refusal at 2.5 ft
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3 - 414M - 06

Sheet: 1 of 1

Date: 6-29-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-10

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 35"

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
5		13		Ø	GC	Sandy silt w/ gry clay & ~~cobbles~~ rocks. Wood pecies. Sand is dark brwn. Lt. brwn sand grading to silt w/ organics, ~~cobbles~~ rocks & gry clay. At 28"–28" is red/brwn sand (fg). Clay layer at 30". transitioning sand & clay.	5	Pushed to 7ft
		22			SM/CL			
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3-414M-05

Sheet: 1 of 1

Date: 6.29.11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-10 | Logged By: MH | Reviewed By: _____

Drilled By: _____ | Driller: _____ | Drilling Method: _____

Total Depth: 28" | Sampling Method: _____ | Groundwater Depth: _____

Groundwater Measurement: _____ | TOC Elevation: _____ | Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		19"		Ø	GC	poorly sorted silty sand of dark brwn. Layer of lt. brwn sand at 10". Drk brwn clay w/ drk gry slag to ~~19~~ 26". Gry clay w/ brwn sand 26-28".	0	· Push 1 - refusal at 3.5 ft
		9"			SM			· Push 2 - refusal at 5.5 ft
5					CL		5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3-414M-04

Sheet: 1 of 1

Date: 6-29-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-10 | Logged By: MH | Reviewed By:

Drilled By: | Driller: | Drilling Method:

Total Depth: 42" | Sampling Method: | Groundwater Depth:

Groundwater Measurement: | TOC Elevation: | Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		22"			SM	fg sand, brwn w/ gry clay from 0-25" w/ more clay at bottom. wet fg brwn sand 25-42" w/ a layer of grey clay at 38"	0	Refusal at 6ft
		20"						
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services Inc

BORING LOG: LL3 - 414M - 03

Sheet: 1 of 1

Date: 6-29-11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-10 | Logged By: MH | Reviewed By: _____

Drilled By: _____ | Driller: _____ | Drilling Method: _____

Total Depth: 45" | Sampling Method: _____ | Groundwater Depth: _____

Groundwater Measurement: _____ | TOC Elevation: _____ | Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				Ø	GC/SM	vfg brwn & tan sand w/ grg clay mixed in. Layer of slag at 3". Dark red/brwn sand from 16-43". Lt. brwn last 2". Pebbles throughout. Trace organics at 18".	0	Pushed to 6.5 ft
5	2"						5	
	24"							
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services Inc

BORING LOG: LL3-414M-02

Sheet: 1 of 1

Date: 6-29-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-10

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 30"

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		12"		Ø	~~SM~~	crushed slag w/ gry clay - 4"	0	Refusal at 5ft
					CL ↓ SM	transition from gry clay to brn/tan vfg sand at bottom. Brown sandy clay 3-5ft		
5		9"					5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3-414M-01

Sheet: 1 of 1
Date: 6-29-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EO-10
Logged By: MH
Reviewed By:

Drilled By:
Driller:
Drilling Method:

Total Depth: 37"
Sampling Method:
Groundwater Depth:

Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		29"		Ø	SM/ CL	crushed slag first 6". Mixed vfg sand of red/ brwn/tan w/ grg clay. ~~Cobbles~~ throughout. rocks	0	Refusal at 5.5 ft
		8"						
5							5	
10							10	
15							15	
20							20	
25							25	

412 M

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3 - ~~413M~~ - 01

Sheet: 1 of 1
Date: 6.30.11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-04
Logged By: MH/TH
Reviewed By:
Drilled By:
Driller:
Drilling Method: PUSH PROBE
Total Depth: 18"
Sampling Method: CORE B
Groundwater Depth: N/A
Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		16"	1-3'	ϕ	FILL	3 pushes to 18" 2-push used 6" SANDY MATERIAL W/ GRAVEL 12" MIXED FILL MATERIAL SAND/GRAVEL/CLAY LIGHT BRN TO DARKER BROWN MIXED SS TDC 18"		• Push 1 - refusal at 1.5 ft. • Push 2 - refusal at 1.5 ft ⇐ sampled • Push 3 - refusal at 1.5 ft. 8:20 AM

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3 412M-02

Sheet: 1 of 1

Date: 6-30-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-04

Logged By: TH

Reviewed By:

Drilled By:

Driller:

Drilling Method: PUSH PROBE

Total Depth: 4'

Sampling Method:

Groundwater Depth: NA

Groundwater Measurement: NA

TOC Elevation:

Groundwater Elevation: NA

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		24"	1-3'	0	CL	DARK BRN DENSE CLAY (~~SANDY~~ SILTY) TRACE SAND/SILT AT SURFACE @ 22" CRUSH- GRAVEL MATERIAL SUB-		8:30 AM 1st PUSH 24" 1-3'
		12"	4-7'		FILL	FILL MATERIAL - BLICKS, SILT/CLAY BRN - DK BRN MIXED GRAVEL		1st PUSH 8:38 AM 4-7' 12" REC
5					CL	TD @ 4' - SANDY CLAY DK BRN ORANGE - SS	5	2ND PUSH 4-7' 8" REC 3RD PUSH 4-7 48" REC
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: 43 412M - P3

Sheet: 1 of 1
Date: 6/30/11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-44
Logged By: TH
Reviewed By:
Drilled By:
Driller:
Drilling Method: Push Probe
Total Depth: 3'
Sampling Method: Core B
Groundwater Depth: N/A
Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		28"	1-3'	0	SC	SILTY LOAM SURFACE MATERIAL 6" DK BRN SILTY CLAY GRAVEL (SLAG) 3" SEAM SILTY SAND BRN ORANGE TD @ 28" SS		8:53 AM 1st PUSH REC 1-3' 28" 2nd PUSH REC 1-3' < 28" 3rd PUSH REC 1-3' < 28"
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3 A12M-B9

Sheet: 1 of 1
Date: 6-30-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: FH-09
Logged By: TH
Reviewed By:
Drilled By:
Driller:
Drilling Method: Push Probe
Total Depth: ~~4.5'~~ 3.5
Sampling Method: Code B
Groundwater Depth: N/A
Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		29"	1-3	0		SANDY LOAM SURFACE 5"		8:05 AM
						GRAVEL / CLAY TANISH 10"		1st PUSH - REC
						DK BRN SILTY CLAY		1-3' 29"
		5"	4-7	0	CL	TRANS TO		
						TAN - OCHRE SILTY SAND		
						— (NOTED WOOD) SILTY CL	5	1st PUSH REC
						TD @ ~~4.0~~ 3.5 SS		4-7' 5"
								2nd PUSH
								4-7' <5"
							10	3rd 1-SH
								4-7' <5"
							15	
							20	
							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3 412M-05

Sheet: 1 of 1

Date: 6-30-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB4

Logged By: TH

Reviewed By:

Drilled By:

Driller:

Drilling Method: PUSH PROBE

Total Depth: 45

Sampling Method: CORES

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation:

Groundwater Elevation: N/M

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description
0		38"	1-3'	4	CL	SILTY LOAM SURFACE 6"
		32"				BRN - DK BRN SILTY CLAY
					FILL	INTERBEDDED SILTY SAND SEAMS
						& GRAVEL
		18"	4-7'		CL	BRN SILTY CLAY
5						TD @ 4.5 SS
10						
15						
20						
25						

Depth (Feet)	Comments
	9:25 AM
	1ST PUSH REC
	1-4 42"
5	1ST PUSH REC
	4-7 18"
	2ND PUSH
	4-7 <18"
10	3RD
	4-7 <18"
15	
20	
25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL 3 412M-06

Sheet: 1 of 1
Date: 6-30-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-09
Logged By: TH
Reviewed By:
Drilled By:
Driller:
Drilling Method: PUSH PROBE
Total Depth: 1.5'
Sampling Method: CORE B
Groundwater Depth: N/A
Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		14"	1-3	0		BRN OLIVE - BRN DK SILTY CLAY to CLAY	0	9:55 AM
								1ST PUSH REC
								1-3 14"
								2ND PUSH 13"
								3RD PUSH <13"
						TD @ 1.5' SS TAN-BUFF		
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services Inc

BORING LOG: LL3 412M-07

Sheet: 1 of 1

Date: 6-30-04

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: Eb. 04

Logged By: TH

Reviewed By:

Drilled By:

Driller:

Drilling Method: PUSH PROBE

Total Depth: 25

Sampling Method: COLE B

Groundwater Depth: N/A

Groundwater Measurement: NM

TOC Elevation:

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		33"	1-3'	0	CL	BLK-BRN CLAY 9" GRAVEL SEAM 3" (SLAG) TRANS TO ORANGE BRN TO BRN SILTY CLAY - SANDY CLAY TOE 2.5' SS		10: 05 am 15 1st Push REC 1-3' 33" 2nd push REC 1-3' 36" 3rd push < 30" 1-3'
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3 412M-09

Sheet: 1 of 1
Date: 6-30-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-09
Logged By: TH
Reviewed By:
Drilled By:
Driller:
Drilling Method: PUSH PROBE
Total Depth: 1.5'
Sampling Method: COLE B
Groundwater Depth: N/A
Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
						SILTY/CLAY LOAM 4"		1Ø: 29mm
		30"	1-3'	4	CL	BRN SILTY CLAY TRANS LIGHT BRN/ORANGE SILTY CLAY Interbedded SILTY SEAMS		1st PUSH 1-3' REC 30"
								2ND PUSH 1-3' 28"
5						TD @ 5' 5' LIGHT BRN SANDSTONE	5	3RD PUSH 1-3' < 28"
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3 ABM-01

Sheet: 1 of 1
Date: 6-30-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-4
Logged By: TH
Reviewed By:
Drilled By:
Driller:
Drilling Method: Push Probe
Total Depth: 4.5'
Sampling Method: Core B
Groundwater Depth: N/A
Groundwater Measurement: NA
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		41"	1-3'	0	CL	LIGHT SILTY CLAY TRANS TO LIGHT GRAY BACK TO LIGHT ORANGE BRN		11:00 AM 1st Push Rec 1-3' 41"
		12"	3-5'			Interbedded SILTY-SANDY CLAY LIGHT ORANGE-BRN SILTY CLAY		
5							5	1st Push Rec 3-7'
						TD @ 4.5' SILTY CLAY		
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LB 413M - 02

Sheet: 1 of 1
Date: 6-30-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-4
Logged By: TM
Reviewed By:
Drilled By:
Driller:
Drilling Method: Push Probe
Total Depth: 18'
Sampling Method: Core B
Groundwater Depth: N/A
Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	18"		1-3'	0	CL	CLAY - TANISH ORANGE TRANS TO A SILTY CLAY TO SAND STONE TD @ 1.5' SS	0	10:31 AM 1st Posit 1-3' Rec 8" 2nd Posit 1-3' Rec 18" 3rd Posit 1-3' Rec < 18"
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services Inc

BORING LOG: LL 3 413M-P3

Sheet: 1 of 1
Date: 6-30-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-9
Logged By: TH
Reviewed By:
Drilled By:
Driller:
Drilling Method: Push Probe
Total Depth: 6.5'
Sampling Method: Core B
Groundwater Depth: N/A
Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		31"	1-3'	0	Fill	BRN - SILTY CLAY MIXED SAND GRAVEL & CLAY (SUBG)		12:00 REC 1st Push 31' 1-5
			3-5'					
5		16"	5-7'	0	CL	DK BRN SILTY CLAY w/ Inter-Mixed Gravel (MOSTLY CLAY SIZE/SAND(FINE))	5	1st Push REC 12:01 5-7 16"
						TD 6.5'		
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3 413M-09

Sheet: 1 of 1

Date: 6-30-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-9

Logged By: TH

Reviewed By:

Drilled By:

Driller:

Drilling Method: Push Probe

Total Depth: 5.0'

Sampling Method: Core B

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation: N/A

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
5		50	1-3' 3-5'	0	CL FILL CL	LIGHT BRN SILTY CLAY DENSE Interbedded SILTY SEAMS LAST 6" SILTY/SANDY CLAY W/ SANDSTONE TDC 5.0' SS	5	12:12 1st PUSH- REC 1-5' 76" 2nd PUSH 1-5' 56"
10							10	
15							15	
20							20	
25							25	

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BORING LOG: LL3 413M – 05

Sheet: 1 of 1
Date: 6-30-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-4
Logged By: TH
Reviewed By:
Drilled By:
Driller:
Drilling Method: Push Probe
Total Depth: 3'
Sampling Method: Core B
Groundwater Depth: N/A
Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description
0			1-3'	0	CL	BRN SILTY CLAY TRANS TO LIGHT BRN w/ SOME SANDY GRAVEL @ 3'
		32"			FILL	
5					CL	TD @ 3' SANDY CLAY
10						
15						
20						
25						

Depth (Feet)	Comments
	1:38 pm
	1st Push LOC.
	1-5' 3'
	2nd Push
5	1-5' 3.5'
	3rd 1-5' < 3'
10	
15	
20	
25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3 413M-φ6

Sheet: 1 of 1

Date: 6-30-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-4

Logged By: TH

Reviewed By:

Drilled By:

Driller:

Drilling Method: Push Probe

Total Depth:

Sampling Method: Core B

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation: N/A

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		36"	1-3'	φ	Fill	BRN TO DK BRN SILTY CLAY	0	1: φppm
						SANDY SILT SEAM AT 28"		1st push REC
						TRANS BACK TO DK BRN SILTY CLAY		1-5' 3.2'
					CL			2nd push REC
5						TD @ 3.2'	5	1-5' 3.8'
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3 413M-07

Sheet: 1 of 1

Date: 6-30-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: EB-1

Logged By: TH

Reviewed By:

Drilled By:

Driller:

Drilling Method: Push Probe

Total Depth: 30'

Sampling Method: Core B

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation: N/A

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		36"	1-3	0	FILL	BRN - DK BRN SILTY CLAY		1:58 pm
						12" - 18" WOOD		1st Push REC
					CL	MIXED W/ GRAVEL (SLAG)		1-5' 36"
						SAND & SILT MIXTURE		
						FOLLOWED BY SS		
5						DK BLK ORGANIC SILTY CLAY	5	2nd Push REC
						TD @ 30'		1-5' 32"
								3rd Push REC
								1-5' ~ 32"
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3 913M -08

Sheet: 1 of 1

Date: 6-30-4

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: FB-4

Logged By: TH

Reviewed By:

Drilled By:

Driller:

Drilling Method: Push Probe

Total Depth:

Sampling Method: Lowe B

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation: N/A

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0						BRN - DK BRN SILTY CLAY GRAVEL (SLAG) SILTY/SAND	0	2:14 pm
		36	1-3	6	FILL	TRANS TO DK BRNISH RED SILTY CLAY		1st Push Rec
						TD @ 3.0'		1-5' 3.0'
5							5	2nd Push Rec
								1-5' 3.0'
								3rd Push Rec
								1-5 3.0'
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2 514M -01

Sheet: 1 of 1

Date: 6-30-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DB.9A

Logged By: TH

Reviewed By:

Drilled By:

Driller:

Drilling Method: Push Probe

Total Depth: 7'

Sampling Method: Core 6

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation:

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
			1-3'	0	FILL	GRAVEL & SAND		3:35 PM
						BRN-TAN ISH TRANS TO		
			3-5'		CL	BRN ORANGE SILTY CLAY		
						SMALL GRAVEL SEAMS (SLAG)		
5			5-7'			" TRANS TO GRAY	5	
						SILTY CLAY		
						TD @ 7'		
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LLS 2 514M - 02

Sheet: 1 of 1
Date: 6-30-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DB-4A
Logged By: TH
Reviewed By:
Drilled By:
Driller:
Drilling Method: PUSH PROBE
Total Depth: 7'
Sampling Method: COLE'S
Groundwater Depth: N/A
Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	26"		1-3'	0	FILL	GRAVEL/SAND SILTY CLAY BRN-TANISH	0	1st PUSH 1-5' REC 23"
			3-5'			SILTY CLAY		2nd PUSH 5-5' REC 26"
5	21"		5-7'		CL	BRN-ORANGE ~~TO GRAY~~ SILTY CLAY VERY WET 14" TRANS TO LT GRAY SILTY CLAY	5	3RD PUSH 1-5' REC 25"
						TD @ 7'		
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2 SWM-03

Sheet: 1 of 1
Date: 6-30-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DB-9A
Logged By: TH
Reviewed By:
Drilled By:
Driller:
Drilling Method: PUSH PROBE
Total Depth: 7'
Sampling Method: CORE B
Groundwater Depth: N/A
Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0			1-3'	0		LT BRN (TANISH) SILTY CLAY DENSE VERY PLATY	0	
		57"						
			3-5'					
5						LT BRN (ORANGE) SILTY CLAY	5	
		29"						
						TD @ 7'		
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LTZ 514M-04

Sheet: 1 of 1
Date: 6-30-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DB-4A
Logged By: TB
Reviewed By:
Drilled By:
Driller:
Drilling Method: Push Probe
Total Depth: 7'
Sampling Method: Core B
Groundwater Depth: N/A
Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
			1-3'	0	CL	GRAY SILTY CLAY		
		57%	3-5'		CL	DRY		
5		24%	5-7'		CL	SAT - SILTY CLAY @ TRANS TO GRAY SILTY CLAY SAT	5	
						TD @ 7'		
10							10	
15							15	
20							20	
25							25	

Ø5

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BORING LOG: LL2-514M-~~Ø4~~

Sheet: 1 of 1
Date: 7-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DB-4A
Logged By: MH
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth: 8011
Sampling Method:
Groundwater Depth:
Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0			1-3'	Ø	CL	Brown/Grey silty clay	0	
		56"						
			3-5'		CL			
5							5	
		24"	5-7'		CL			
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2-514M-06

Sheet: 1 of 1
Date: 7.1.11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DB-4A
Logged By: MH
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth: 81"
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				0	CL	Brown/Gray Silty Clay Gravel at ~25" Sandstone at ~40" layer	0	
	57"				CL			
5							5	
	24"				CL			
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2-514M-07

Sheet: 1 of 1
Date: 7.1.11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DB-4A
Logged By: MH
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth: 51"
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		57"			CL	Same brown/grey clay/silt w/ some gravel & rock.		
						Sandstone seam at 25"		
					CL			
5						gravel ends ~60"	5	
		24"			CL			
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2-514M-08

Sheet: 1 of 1
Date: 7-1-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DB-4A
Logged By: MH
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth: 80"
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	56"			Ø	CL	brown/gry silty clay Gravel in first 12" Trace gravel through first		
					CL	few ft.		
5						wet 56-60"	5	
	24"				CL	very dry 60-67" random trace gravel throughout.		
10							10	
15							15	
20							20	
25							25	

515M

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2 - ~~SWMU~~ - 08

Sheet: 1 of 1
Date: 7-1-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DB-4A
Logged By: MH
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth: 59"
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
				Ø	GC	Silty sand w/ lg ~~cobbles~~ rock frags & slag 0-10". Brown		
		35"			GP	10-23" slag w/ brwn/gry clay		
5		24"			CL	23-35" wet silty clay, brwn-gry.	5	
						35-43" gry shale all broken up w/gry clay transitioning to wet gry/brwn clay w/ trace gravel		
10					CL		10	
15							15	
20							20	
25							25	

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BORING LOG: LL2-515M-01

Sheet: 1 of 1

Date: 7-6-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DB-41A

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 75"

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
				0	CL	silty clay, brwn/gry w/ trace gravel		
		57"				57-68" clayey silt w/ red/brwn color. wet		
5		18"			ML		5	
					CL	68-75" silty clay gry		
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2-515M-07

Sheet: 1 of 1
Date: 7.11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DB-4A
Logged By: MH
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth: 31"
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		31"		Ø	CL/GC	brown/grey silty clay w/ some sand & gravel. very gravely at 20" w/ timber. rotating clay & gravel to 27" → wet grey silty clay w/ some gravel.	0	· Push 1 - refusal at 2ft. · Push 2 - refusal at 2ft. · Push 3 - refusal at 3ft. ← sampled
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2 - SISM - 02

Sheet: 1 of 1
Date: 7·1·11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DB-41A
Logged By: MH
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth: 59"
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		42"			CL	brown/grey silty clay w/ some sand. trace gravel throughout.	0	~~Post~~ ~~refusal at~~ ~~2ft.~~
5		17"			CL	gravel/~~cobbles~~ rock frag ~~stone~~ at 12" - ~~#~~20"	5	
					CL	same clay as above w/ gravel & cobbles at last 10".		
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2-515M-06

Sheet: 1 of 1
Date: 7-1-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DB-41A
Logged By: MH
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth: 64"
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		49"			GM	brown clayey silt w/ slag rock to 20".		
						20-30" is crushed slag & slag rock		
5		29"				30-32" is very dark & wet clay w/ gravel	5	
					CL	32-40" brown silty clay		
						same clay 40-64" rocks w/ some gravel/~~cobbles~~		
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services Inc

BORING LOG: LL2-515M-03

Sheet: 1 of 1

Date: 2-6-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DB-4A

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 80'

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		56"		0	CL	Brown/Gray Clay w/ silt	0	
						More silt 3-5ft. w/		
					ML	trace ~~cobbles~~ rocks		
5		24"			CL/GM/GC	Brwn silty clay & clayey silt w gravel	5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2-SISM-B5

Sheet: 1 of 1

Date: 7.1.11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DB-41A

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 60"

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
5	36"				SC	Alternating sand/silty clays of brwn & gry from 0-12". 12-30" crushed slag & slag rock. trace organics	5	
	24"				GM	30-33" very dark brown wet clay w/ gravel.		
					CL	33-36" brwn clay		
						brwn/gry clay w/ trace gravel 36-60"		
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2 - 515M - 04

Sheet: 1 of 1

Date: 7.1.11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DB-4A | Logged By: MH | Reviewed By: _____

Drilled By: _____ | Driller: _____ | Drilling Method: _____

Total Depth: 59" | Sampling Method: _____ | Groundwater Depth: _____

Groundwater Measurement: _____ | TOC Elevation: _____ | Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				Ø	CL	brwn/gry silty clay to 18"	0	
		35"				slag from 18 - 23"		
5					CL	brwn/gry silty clay w/ trace timber 23 - 35".	5	
		29"			CL	silty/~~sandy~~ clay mostly green w/ some gravel & trace organics		
					CH	dense clay of high plasticity w/ some ~~cobbles~~ 38 - 59" rock frags		
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2 - 513M - 08

Sheet: 1 of 1

Date: 7-1-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DB-4

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 60"

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	44"			0	CL	4. brown & grey silty clay w/ gravel & rubble debris 1-3ft	0	
5	24"					3-5ft brown & grey silty clay	5	
						5-7ft " " w/ trace gravel		
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2-513M-07

Sheet: 1 of 1
Date: 7-1-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DB-4
Logged By: MH
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth: 73"
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
				Ø	CL	brown/grey silty clay gravel/rubble at 20'&50'		
		49"						
5		24"					5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2-513M-06

Sheet: 1 of 1
Date: 7.1.11

Site Name: _____
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DB-4
Drilled By: _____
Total Depth: 31"
Groundwater Measurement: _____

Logged By: MH
Driller: _____
Sampling Method: _____
TOC Elevation: _____

Reviewed By: _____
Drilling Method: _____
Groundwater Depth: _____
Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				0	CL	Brown/grey silty clay hit slag gravel at 5ft.	0	Pushed 3X & hit refusal at 5ft.
5	31"						5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2-513M-05

Sheet: 1 of 1
Date: 7.1.11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DB-4
Logged By: MH
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth: 7'11
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				0	CL	Same brown/gry silty clay w/ some gravel. Fe rich.	0	
5		50%					5	
		2'9"						
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2 - SB14 - 04

Sheet: 1 of 1
Date: 7.1.11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DB-4
Logged By: MH
Reviewed By:

Drilled By:
Driller:
Drilling Method:

Total Depth: 74"
Sampling Method:
Groundwater Depth:

Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		50"		Ø	CL	brwn/grey silty clay. Fe rich very gravely 45-50"	0	
5		24"				same 5-7ft silty clay w/ trace gravel.	5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services Inc

BORING LOG: LL2-513M-03

Sheet: 1 of 1

Date: 7.1.11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DB-9

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 8"

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	X	8"				Gravel fill. Very wet		Pushed 3X. To much water to get a good sample
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2-513M-02

Sheet: 1 of 1

Date: 7-1-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DD-4

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 12'

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	X	12"			CL	silty clay	0	Poor recovery. Pushed 3X w/ very little material due to compact gravel.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL3 - SB3M - 01

Sheet: 1 of 1
Date: 7.11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: DT3-4
Logged By: MH
Reviewed By:

Drilled By:
Driller:
Drilling Method:

Total Depth: 6.2'
Sampling Method:
Groundwater Depth:

Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				0	CL	Grey/brown silty clay w/ gravel. 18" crushed gravel seam. 5-7ft was very wet brown silty clay w/gravel.	0	
5	38"						5	
	24"							
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2-412-07

Sheet: 1 of 1

Date: 7/01/2011

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: AJM Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0						brown to dark brown/clay silty clay sand seam @ ~20inch. Then brown to orange silty clay.	0	2:56 pm
		5/6in.		Ø				
5		2/4		Ø		silty brown to orange clay. Sand/rock seam @ ~1 foot from end.	5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2-412-02

Sheet: 1 of 1

Date: 7-01-2011

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: AUM Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	X	30		0	CL	silty clay with a rock seam ~10 in. from end. Gravel + trace rocks ~~throughout~~ in first ~1 to 1.5 feet. Clay is gray to brown + terminates on slag.	0	2:58pm pushed to 2.5 feet X3
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services Inc

BORING LOG: LL2-412-03

Sheet: 1 of 1

Date:

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No:

Logged By: ALM

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth:

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
								3:05pm
0	5ft			Ø	CL	Gray to orange clay with some silt. ~8in. from end is sand seam, At ~18 in. from end is rock seam.	0	Refusal at 6.5-feet 1st push
5	24in.			Ø	SM/CL	Top ~1.5-feet is yellow to tan sand + sandstone with little silt then fines with depth to clay-brown in color.	5	2nd push < 5ft. 3rd < 5 ft. 4th to 7 feet
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2-412-06

Sheet: 1 of 1

Date: _____

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: _____ Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
								3.10pm
	X	26in.		ϕ	CL	brown silty clay & gravel. Last ~6in. is very silty clay - moist and dark gray.		Refusal at 4 feet - 1st push
5							5	2nd push @ < 4ft, 3rd < 4ft.
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2-412-01

Sheet: 1 of 1
Date: 7/01/2001

Site Name: _____
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: ALM Reviewed By: _____
Drilled By: _____ Driller: _____ Drilling Method: _____
Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____
Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		42		0	CL/SC	Dense brown clay with slag @ 1.5 feet from top. Last ~8in. is sandstone.	0	
5		18in			CL	grey silty clay moist	5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2-412-08

Sheet: 1 of 1
Date: 7/01/241

Site Name: _____
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: _____ Reviewed By: _____
Drilled By: _____ Driller: _____ Drilling Method: _____
Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____
Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
				Ø	CL	organic debris + gravel 1st 8 in. then sandstone + sand. ~8 in.		
		4/6 in.				6 in. from end is timber, black.		
5							5	
		2/2 in.		Ø	CL	Dark brown silty clay.		
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2-412-05

Sheet: 1 of 1

Date: 7/01/2011

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: ACM Reviewed By: _____

Drilled By: _____ Driller: _____ Drilling Method: _____

Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____

Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				Ø	GC/CL	gravel, clay & silt first 1.5 feet. Sand & sand seam is ~15in. from end. Clay is grayish to dark gray @ ~2 feet and is ~4 inches. Then transitions to brown clay.	0	
5	5'	51					5	
	7'	24		Ø	CL			
10						brown silty, platy clay with some gravel	10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL2-412-07

Sheet: 1 of 1
Date: 7/01/2011

Site Name: _____
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: _____ Logged By: ACM Reviewed By: _____
Drilled By: _____ Driller: _____ Drilling Method: _____
Total Depth: _____ Sampling Method: _____ Groundwater Depth: _____
Groundwater Measurement: _____ TOC Elevation: _____ Groundwater Elevation: _____

Depth (Feet)	Interval & % Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	5/7		0		dense clay brown to orange. Dark gray clay with timber ~1/2 in. from end	0	refusal at 6 feet 1st push
5	13				Brown silty clay	5	2nd push refusal @ 6 feet 3rd < 6 ft.
10						10	
15						15	
20						20	
25						25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-644M-08 645 646

Sheet: 1 of 1

Date: 7-5-11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4A

Logged By: MH

Reviewed By: _____

Drilled By: _____

Driller: _____

Drilling Method: _____

Total Depth: 23"

Sampling Method: _____

Groundwater Depth: _____

Groundwater Measurement: _____

TOC Elevation: _____

Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		23"		Ø	SM	brwn silty sand w/ ~~cobbles throughout~~: All Fill rock frags & gravel throughout	0	Refusal at 2 ft. -644 2 ft -645 2.5 ft -646
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1 - 6644M - 01
6645
6646

Sheet: 1 of 1
Date: 7-5-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4A
Logged By: MH
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth: 32"
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		32"		Ø	CL	brown/grey silty clay 0-14"		6644 Refusal at 2.5ft
					SM	~14-32" red/brown silty sand gravel & rock frags throughout		
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC.
(fka Prudent Environmental Services, Inc)

BORING LOG: LL1-644A-07
644
645
646

Sheet: 1 of 1
Date: 7-5-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-41A
Logged By: MH
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth: 28"
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		28"		Ø	SM	silty clayey sand of brwn/gry. Drk brwn layer at 6" overlaying red/brwn silty sand fading to a lt. brwn silty sand. Terminating on sandstone.		644 - refusal at 3ft 645 646
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-644M-02 645 646

Sheet: 1 of 1

Date: 7.5.11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4A

Logged By: MH

Reviewed By: _____

Drilled By: _____

Driller: _____

Drilling Method: _____

Total Depth: 52"

Sampling Method: _____

Groundwater Depth: _____

Groundwater Measurement: _____

TOC Elevation: _____

Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				Ø	CL	0-5ft brown silty clay to 30"	0	All the way to 7ft.
					SM	30-40" red/brown silty sand w/ gravel & rock frags through		poor recovery from 5-7ft
						5-7ft red/brown silty sand w/ gravel & rock frags.		
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services Inc

BORING LOG: LL1 - 644M - Ø6
645
646

Sheet: 1 of 1
Date: 7-5-11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-1A | Logged By: MH | Reviewed By: _____

Drilled By: _____ | Driller: _____ | Drilling Method: _____

Total Depth: 28" | Sampling Method: _____ | Groundwater Depth: _____

Groundwater Measurement: _____ | TOC Elevation: _____ | Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				Ø	SM	0-5ft gravely sandy fill to 8". Red/brown silty sand to 5ft. Rock frags through.	0	644 - Refusal at 5ft 645 - Refusal at 3ft 646 - refusal at 3ft very poor recovery
		28"						
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-644M-03
645
646

Sheet: 1 of 1
Date: 7-5-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4A
Logged By: MH
Reviewed By:

Drilled By:
Driller:
Drilling Method:

Total Depth: 4-7"
Sampling Method:
Groundwater Depth:

Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				Ø	SM	0-5ft slag rock on top. brown silty sand w/ rock frags.	0	644 - refusal at 5ft w/ poor recovery 645 - refusal at 6ft 646 - refusal at 6ft.
5	34"				SM	5-7ft silty sand w/some clay terminating on sand stone	5	
10	13"						10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-644M-05
645
646

Sheet: 1 of 1
Date: 7.5.11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4A
Logged By: MH
Reviewed By: _____

Drilled By: _____
Driller: _____
Drilling Method: _____

Total Depth: 32"
Sampling Method: _____
Groundwater Depth: _____

Groundwater Measurement: _____
TOC Elevation: _____
Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		32"		Ø	SM	brown silty/clayey sand w/ lots of rock frags. All Fill. very Fe rich at last 3".	0	644 - refusal at 3ft 645 - " 646 - "
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-644M-04
644
645
646

Sheet: 1 of 1
Date: 7-5-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4A
Logged By: MH
Reviewed By:

Drilled By:
Driller:
Drilling Method:

Total Depth: 33"
Sampling Method:
Groundwater Depth:

Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		33"		Ø	SM ~~CL~~	Dark brown ~~silty clay~~ clayey silt w/ some vfg. sand.		644 645 & refusal at 4ft. 646
						3-4ft is silty sand w/ lots of gravel & crushed rock. Fill terminating on sandstone.		
					GM	saturated at bottom.		
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-643M-01

Sheet: 1 of 1

Date: 7-5-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB 4A

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 26"

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
				0	SM	brown sandy ~~fill~~ crush w/ some silt & clay. lots of broken rock frags. terminated on sandstone.		Pushed 3 times w/ refusal at 3ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services Inc

BORING LOG: LL1-643M-08

Sheet: 1 of 1
Date: 7.5.11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4A
Logged By: MH
Reviewed By:

Drilled By:
Driller:
Drilling Method:

Total Depth: 34"
Sampling Method:
Groundwater Depth:

Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				Ø	SM	silty/clayey brown vfg sand. w/ rock frags. Terricota frags at ~3ft. dark red/brown in color	0	Anomaly below 5ft. will not push further Push 1 ↑ Push 2: 0-5 ft w/ poor recovery. Refusal at 6ft. Push 3: 0-5ft w/poor recovery
5		20%					5	
		8%						
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. (an Prudent Environmental Services, Inc)

BORING LOG: LL-GWM-02

Sheet: 1 of 1

Date: 7-5-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-9A

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 26"

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	X	26"		Ø	SM	grg/lt. brown sandy ~~clay~~ crush / lots of rock frags. Terminates ~~at~~ on sandstone. Pulverized sandstone		Push 1: refusal at 2ft. Push 2: " " Push 3: "
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-643M-03

Sheet: 1 of 1

Date: 7-5-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4A

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 27'

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		27"		Ø	SM	vfg. crushed sand stone w/ some silt & clay. lots of S-S rock frags. terminated on S-S.	0	Pushed 3 times w/ refusal at 3ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-693M-Ø7

Sheet: 1 of 1

Date: 2-5-17

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4A

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 25"

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		25"		Ø	SM	Demolished Sand stone. wood chunck at ~3ft Terricota at ~4ft. lg. rock frags Red brick ~~fragg~~ at 4ft chunks	0	Push 1: refusal at 4ft Push 2: " " Push 3: "
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-643M-04

Sheet: 1 of 1
Date: 7-5-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4A
Logged By: MH
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth: 37"
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				0	SM	Dark brown silty/clayey sand. All crushed S.S. very dark last 2"! Lg. wood chunck at 34"!	0	Push 1 = refusal at 3ft Push 2: " Push 3: refusal at 6ft
5		27" 10"					5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-643M-06

Sheet: 1 of 1
Date: 9.5.11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-9A
Logged By: MH
Reviewed By:

Drilled By:
Driller:
Drilling Method:

Total Depth: 15"
Sampling Method:
Groundwater Depth:

Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	X	15"		Ø	SM/GM	Very poorly sorted slag/ sand crushed rock w/ traces of silt & clay		Push 1: refusal at 3ft Push 2: refusal at 2ft Push 3: refusal at 3ft
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-643M-05

Sheet: 1 of 1
Date: 7-5-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4A
Logged By: MH
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth: 36"
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		36"		0	SM	Drk & lt. brwn crush sand stone w/ some silt & clay lots of crushed S.S. rocks 3-4ft was very drk brown/red vfg sand ~~stone~~ Fe rich	0	Push 1: refusal at 4ft Push 2: " " Push 3:
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-640M-08

Sheet: 1 of 1

Date: 7-5-11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4A

Logged By: MH

Reviewed By: _____

Drilled By: _____

Driller: _____

Drilling Method: _____

Total Depth: 39"

Sampling Method: _____

Groundwater Depth: _____

Groundwater Measurement: _____

TOC Elevation: _____

Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				Ø	SM	Crushed sand stone of varying color: lt. brown, dark brown & grg. Some silt & clay throughout. ~~Lg~~ rock frags. Crushed slag layer at ~4ft depth.	0	Push 1: refusal at 5ft → sampled Push 2 & 3: refusal at 3ft.
5		39"					5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-640M-07

Sheet: 1 of 1

Date: 7-5-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4A

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 23"

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		23"		Ø	SM/GM	very poorly sorted clay/silty/sandy/gravel/rock frags. very dark brn & grg in color.		Push 1, 2 & 3: refusal at 2ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-640M-06

Sheet: 1 of 1
Date: 7.5.4

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4A
Logged By: MH
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth: 18"
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	X	18"		Ø	SM/GM	very poorly sorted, very dark silty/clayey/sandy gravel.		Push 1: refusal at 1.5ft ↓ 2 3
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1 - 640M - 05

Sheet: 1 of 1

Date: 7.5.11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4A

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 4'5"

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		36"		Ø	SM/GM	very poorly sorted clayey silty sand w/ crushed rock & gravel. lots of slag (50-100%) from 26-36"		Push 1: refusal at 5.5ft Push 2: " " Push 3: refusal at 4ft
5		7"			GM	last ½ ft very poorly sorted gravel & slag & sand/clay.	5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-610M-04

Sheet: 1 of 1
Date: 2.5.11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4A
Logged By: MH
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth:
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
5		33"		0	GM	very poorly sorted silty/clayey/gravely sand of varrying color brown to grey slag gravel throughout.	5	Push 1: refusal at 5.5ft Push 2: pushed to 5ft but w/ poor recovery Push 3: refusal at 4.5ft
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1 - 640 M - Ø 3

Sheet: 1 of 1
Date: 7-5-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CD-4A
Logged By: MH
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth: 18"
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	X	18"		Ø	SM	silty/clayey brown sand Trace gravel	0	Push 1 - refusal at 1ft Push 2: refusal at 1ft Push 3: refusal at 1.5ft
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-640M-02

Sheet: 1 of 1
Date: 7-5-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4A
Logged By: MH
Reviewed By:

Drilled By:
Driller:
Drilling Method:

Total Depth:
Sampling Method:
Groundwater Depth:

Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	X	24"		0	SM/GM	silty sand w/ some gravel & rock frags. Semi-VOC smell. Lots of crushed slag & slag rock. very stinky.	0	Push 1: refusal at 2ft Push 2: " " Push 3:
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-640-01

Sheet: 1 of 1
Date: 2-5-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CD-4A
Logged By: MH
Reviewed By:

Drilled By:
Driller:
Drilling Method:

Total Depth: 30"
Sampling Method:
Groundwater Depth:

Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	X	30"			CL/SM	sandy/silty dark brown clay w/ trace gravel. sandy layer at 27"	0	Push 1: refusal at 2ft Push 2: " Push 3: refusal at 2.5ft w/ best recovery
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-641M-01

Sheet: 1 of 1
Date: 7-6-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4
Logged By: MH
Reviewed By:

Drilled By:
Driller:
Drilling Method:

Total Depth: 22"
Sampling Method:
Groundwater Depth:

Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	X	22"		Ø	GM SM	Silty/clayey sand. Brown/ some blk. Some gravel. Terminates on Sandstone.	0	Push 1: Refusal on 2ft Push 2: Refusal on 2ft
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-641M-02

Sheet: 1 of 1

Date: 7-6-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CD-4

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 32'

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		32"		Ø	~~SM~~ SM	Brown silty/clayey sand w/ sandstone frags. Terminated on s.s.		Push 1: refusal at 3.6ft Push 2: " "
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-641M-08

Sheet: 1 of 1

Date: 7-6-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 42"

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				Ø	Fill	Dlk gravel on top first 5". Everything else is silty/clayey sand w/ sand stone rock frags. Terminated on SS. Last push went to 7ft w/ some gravel at bottom. Trace tericotta in last few inches.	0	Push 1: refusal at 2ft Push 2: refusal at 5ft Push 3: ~~refusal at 7ft~~ Pushed to 7ft
		32"			SM			
5		10"			SM		5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1 - 6411 M - 03

Sheet: 1 of 1

Date: 7-6-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 5'11"

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0				Ø	~~SM~~ SM	same brwn silty sand w/ lots of S.S. rock frags.	0	Push 1: refusal at 5ft
	39"				SM	grain size fining toward bottom w/ more silt & clay		Push 2: went to 7ft
5	12"						5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services Inc

BORING LOG: LL1-641M-04

Sheet: 1 of 1

Date: 7-6-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 59"

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		48"		Ø	SM/GM	Mixed layers of silty sand & clay all brown in color w/ lots of S.S rock frags. from 1-3ft. 3-5ft is consistent	0	Pushed to 7ft on first try.
5		11"			SC	drk brown/red clayey sand	5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1 - 641 M - Ø7

Sheet: 1 of 1
Date: 7-6-1

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4
Logged By: MH
Reviewed By:

Drilled By:
Driller:
Drilling Method:

Total Depth: 24"
Sampling Method:
Groundwater Depth:

Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		24"		Ø	SC	Drk brown red clayey sand from 0-20". Last 4" is lighter brown silty sand w/ ~~gravel~~ crushed SS.		Push 1: refusal at 2.5ft Push 2: refusal at 2.5ft w/ better recovery
					GM			
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-6411M-06

Sheet: 1 of 1

Date: 7-6-11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 22"

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	X	22"		0	CL	very dark brown silty clay w/ some sand, Trace gravel	0	Push 1: refusal at 3ft.
5							5	Push 2: " "
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-641M-05

Sheet: 1 of 1

Date: 7.6.11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB.4

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 36"

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		30"		Ø	SM	silty sand w/ sand stone frags & gravel. brown in color. At 10"-15" layer of crushed slag		Push 1: refusal at 4ft
					GM			Push 2: " "
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-642M-01

Sheet: 1 of 1
Date: 7-6-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4
Logged By: MH
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth: 56"
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		40"		0	SM/GM	silty sand w/ some fill & ss. rock frags		Push 1: All the way to 7 ft.
5		16"					5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1 - 642.M - 02

Sheet: 1 of 1

Date: 7.6.11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 55.5"

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		45"			CL	1-3ft is very dark brown silty clay w/ trace gravel		Push 1: all the way to 7ft
5		10.5"			SM	3.5ft is silty sand of lt. brwn - ss. rock frags	5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-642 M-03

Sheet: 1 of 1
Date: 7.6.11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4
Logged By: MH
Reviewed By:
Drilled By:
Driller:
Drilling Method:
Total Depth: 15"
Sampling Method:
Groundwater Depth:
Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	X	15"		0	SM/CL	crushed sandstone w/ layers of drk brwn clay. s.s. rock frags	0	Push 1: refusal at 2ft. Push 2: refusal at 1.5ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL-642M-06

Sheet: 1 of 1

Date: 7.6.11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4

Logged By: MH

Reviewed By: _____

Drilled By: _____

Driller: _____

Drilling Method: _____

Total Depth: 21"

Sampling Method: _____

Groundwater Depth: _____

Groundwater Measurement: _____

TOC Elevation: _____

Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	X	21"		Ø	CL/SM	Drk brown silty clay layered w/ sand stone frags & crushed s.s.	0	Push 1: refusal at 2ft. Push 2: " "
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-642M-Ø4

Sheet: 1 of 1
Date: 7-6-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4
Logged By: MH
Reviewed By:

Drilled By:
Driller:
Drilling Method:

Total Depth: 24"
Sampling Method:
Groundwater Depth:

Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		24"		Ø	SM	dark brown clayey silt w/ rock frags		Push 1: refusal at 2ft. Push 2: " "
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1-642M-07

Sheet: 1 of 1
Date: 7-6-11

Site Name:
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB 4
Logged By: MH
Reviewed By:

Drilled By:
Driller:
Drilling Method:

Total Depth: 19"
Sampling Method:
Groundwater Depth:

Groundwater Measurement:
TOC Elevation:
Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	X	19"		Ø	SM/CL	silty/clayey sand transitioning to dark brown silty clay at bottom. Contains gravel & ss rock frags.		Push 1: refusal at 2.5ft. Push 2: " "
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1 - ~~CB~~ 642M - 05

Sheet: 1 of 1

Date: 7.6.11

Site Name: _____

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4

Logged By: MKF

Reviewed By: _____

Drilled By: _____

Driller: _____

Drilling Method: _____

Total Depth: 30"

Sampling Method: _____

Groundwater Depth: _____

Groundwater Measurement: _____

TOC Elevation: _____

Groundwater Elevation: _____

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		30"		Ø	CL	sandy/silty clay. Med red/brown color w/ some s. rock frags		Push 1: refusal at 3 ft. Push 2: " "
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc

BORING LOG: LL1 - 6412M - 08

Sheet: 1 of 1

Date: 7.6.11

Site Name:

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: CB-4

Logged By: MH

Reviewed By:

Drilled By:

Driller:

Drilling Method:

Total Depth: 26"

Sampling Method:

Groundwater Depth:

Groundwater Measurement:

TOC Elevation:

Groundwater Elevation:

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0		26"		Ø	SM/CL	Silty sand w/ s.s. rock frags. Last 6" is silty clay of dark brown.	0	Push 1: refusal at 3ft Push 2: refusal at 3ft
5							5	
10							10	
15							15	
20							20	
25							25	

Appendix E – Typed Field Boring Logs

(Provided in the attached CD)

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-640M-01

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 30" (2.5')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxx	30"	1-3'	0 ppm	CL/ SM	Sandy/silty darks brown clay w/ trace gravel. Sandy layer at 27".		Push 1: refusal at 2ft. Push 2: refusal at 2ft. Push 3: refusal at 2.5ft. w/ best recovery
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-640M-02

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 24" (2')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	XXXXXX	24"	1-3'	0 ppm	SM/ GM	Silty sand w/ some gravel and rock frags. SVOC smell. Lots of crushed slag and slag rock. Very stinky		Push 1: refusal at 2ft. Push 2: refusal at 2ft. Push 3: refusal at 2ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-640M-03

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 18" (1.5')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	XXXXX	18"	1-3'	0 ppm	SM	Silty/clayey brown sand . trace gravel		Push 1: refusal at 1ft. Push 2: refusal at 1ft. Push 3: refusal at 1.5ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-640M-04

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 33" (5')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-640M-05

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 45" (5.5')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-640M-06

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 18" (1.5')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	XXXXX	18"	1-3'	0 ppm	SM/ GM	Very poorly sorted very dark silty/clayey/sandy gravel		Push 1: refusal at 1.5ft. Push 2: refusal at 1.5ft. Push 3: refusal at 1.5ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-640M-07

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 23" (2')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxx	23"	1-3'	0 ppm	SM/ GM	Very poorly sorted clay/silt/sand/gravel/rock frags. Very dark brown and gray in color		Push 1: refusal at 2ft. Push 2: refusal at 2ft. Push 3: refusal at 2ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-640M-08

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 39" (5')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxxxxxxxxxxxxxxxxxx	39"	1-3' 3-5'	0 ppm	SM	Crushed sandstone of varying color: lt. brown, dark brown and gray. Some silt and clay throughout. Rock frags. Crushed slag layer at approx. 4ft depth.	0	Push 1: refusal at 5ft. sampled Push 2: refusal at 3ft. Push 3: refusal at 3ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-641M-01

Sheet: 1 of 1
Date: 07/6/11

Site Name: LL1 Building CB-4
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 22" (2')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxxxx	22"	1-3'	0 ppm	SM	Silty/clayey sand. Brown w/ some black. Some gravel. Terminates on sandstone	0	Push 1: refusal at 2ft. Push 2: refusal at 2ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-641M-02

Sheet: 1 of 1
Date: 07/6/11

Site Name: LL1 Building CB-4
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 32" (3.5')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxxxxx	32"	1-3'	0 ppm	SM	Brown silty/clayey sand w/ sandstone frags. Terminated on s.s.		Push 1: refusal at 3.5ft. Push 2: refusal at 3.5ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-641M-03

Sheet: 1 of 1

Date: 07/6/11

Site Name: LL1 Building CB-4

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)

Logged By: Morgan Helfrich

Reviewed By: John Jent

Drilled By: Frontz Drilling

Driller: Ethan Frontz or Helper

Drilling Method: Push Probe

Total Depth: 51" (7')

Sampling Method: Core Barrel

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation: N/A

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-641M-04

Sheet: 1 of 1

Date: 07/6/11

Site Name: LL1 Building CB-4

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)

Logged By: Morgan Helfrich

Reviewed By: John Jent

Drilled By: Frontz Drilling

Driller: Ethan Frontz or Helper

Drilling Method: Push Probe

Total Depth: 59" (7')

Sampling Method: Core Barrel

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation: N/A

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-641M-05

Sheet: 1 of 1

Date: 07/6/11

Site Name: LL1 Building CB-4

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)

Logged By: Morgan Helfrich

Reviewed By: John Jent

Drilled By: Frontz Drilling

Driller: Ethan Frontz or Helper

Drilling Method: Push Probe

Total Depth: 36" (4')

Sampling Method: Core Barrel

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation: N/A

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxxxxxxxxxxxxxxxxxx	36"	1-3'	0 ppm	SM	Silty sand w/ sandstone frags. and gravel. Brown in color. At 10"-15" layer of crushed slag	0	Push 1: refusal at 4ft Push 2: refusal at 4ft
					GM			
			3-5'					
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-641M-06

Sheet: 1 of 1
Date: 07/6/11

Site Name: LL1 Building CB-4
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 22" (3')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxxxx	22"	1-3'	0 ppm	CL	Very dark brown silty clay w/ some sand. Trace gravel		Push 1: refusal at 3ft Push 2: refusal at 3ft
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-641M-07

Sheet: 1 of 1
Date: 07/6/11

Site Name: LL1 Building CB-4
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 24" (2.5')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxx	24"	1-3'	0 ppm	SC GM	Dark brown red calyey sand from 0-20". Last 4" is lighter brown silty sand w/ crushed s.s.		Push 1: refusal at 2.5ft Push 2: refusal at 2.5ft w/ better recovery
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-641M-08

Sheet: 1 of 1

Date: 07/6/11

Site Name: LL1 Building CB-4

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)

Logged By: Morgan Helfrich

Reviewed By: John Jent

Drilled By: Frontz Drilling

Driller: Ethan Frontz or Helper

Drilling Method: Push Probe

Total Depth: 42" (7')

Sampling Method: Core Barrel

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation: N/A

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-642M-01

Sheet: 1 of 1

Date: 07/6/11

Site Name: LL1 Building CB-4

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)

Logged By: Morgan Helfrich

Reviewed By: John Jent

Drilled By: Frontz Drilling

Driller: Ethan Frontz or Helper

Drilling Method: Push Probe

Total Depth: 56" (7')

Sampling Method: Core Barrel

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation: N/A

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	XXXX

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-642M-02

Sheet: 1 of 1

Date: 07/6/11

Site Name: LL1 Building CB-4

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)

Logged By: Morgan Helfrich

Reviewed By: John Jent

Drilled By: Frontz Drilling

Driller: Ethan Frontz or Helper

Drilling Method: Push Probe

Total Depth: 55.5" (7')

Sampling Method: Core Barrel

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation: N/A

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		45"	1-3'	0 ppm	CL	1-3ft is very dark brown silty clay w/ trace gravel		Push 1: went to 7ft
			3-5'		SM	3-5ft is silty sand of lt. brown s.s. rock frags		
5		10.5"	5-7'				5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-642M-03

Sheet: 1 of 1
Date: 07/6/11

Site Name: LL1 Building CB-4
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 15" (2')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxxxx	15"	1-3'	0 ppm	SM/ CL	Crushed sandstone w/ layers of dark brown clay s.s. rock frags	0	Push 1: refusal at 2ft. Push 2: refusal at 1.5ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-642M-04

Sheet: 1 of 1
Date: 07/6/11

Site Name: LL1 Building CB-4
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 24" (2')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxx	24"	1-3'	0 ppm	SM	Dark brown clayey silt w/ rock frags.		Push 1: refusal at 2ft. Push 2: refusal at 2ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-642M-05

Sheet: 1 of 1
Date: 07/6/11

Site Name: LL1 Building CB-4
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 30" (3')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxxxx	30"	1-3'	0 ppm	CL	Sandy/silty clay. Medium red/brown color w/ some s.s. rock frags.		Push 1: refusal at 3ft. Push 2: refusal at 3ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-642M-06

Sheet: 1 of 1
Date: 07/6/11

Site Name: LL1 Building CB-4
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 21" (2')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	XXXXXX	21"	1-3'	0 ppm	CL/ SM	Dark brown silty clay layered w/ sandstone frags. and crushed s.s.	0	Push 1: refusal at 2ft. Push 2: refusal at 2ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-642M-07

Sheet: 1 of 1
Date: 07/6/11

Site Name: LL1 Building CB-4
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 19" (2.5')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxx	19"	1-3'	0 ppm	SM/ CL	Silty/clayey sand transitioning to dark brown silty clay at bottom. Contains gravel and s.s. rock frags.		Push 1: refusal at 2.5ft. Push 2: refusal at 2.5ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-642M-08

Sheet: 1 of 1
Date: 07/6/11

Site Name: LL1 Building CB-4
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 26" (3')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxxxx	26"	1-3'	0 ppm	SM/ CL	Silty sand w/ s.s. rock frags. Last 6" is silty clay of dark brown		Push 1: refusal at 3ft. Push 2: refusal at 3ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-643M-01

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 26" (3')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxxxx	26"	1-3'	0 ppm	SM	Brown sandy crush with some silt and clay. Lots of broken rock frags. terminated on sandstone		Pushed 3 times with refusal at 3ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-643M-02

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 26" (2')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxx	26"	1-3'	0 ppm	SM	Gray/ lt. brown sandy crush. Lots of rock frags. Terminates on sandstone. Pulverized sandstone		Push 1: refusal at 2ft. Push 2: refusal at 2ft. Push 3: refusal at 2ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-643M-03

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 27" (3')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxxxx	26"	1-3'	0 ppm	SM	v.f.g. crushed sandstone w/ some silt and clay. Lots of s.s. rock frags. terminated on s.s.		Pushed 3 times with refusal at 3ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-643M-04

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 37" (6')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-643M-05

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 36" (4')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxxxxxxxxxxxxxxx	36"	1-3' 3-5'	0 ppm	SM	Dark and lt. brown crushed sandstone w/ some silt and clay. Lots if crushed s.s. rocks 3-4ft was very dark brown/red v.f.g. sand. Fe rich		Push 1: refusal at 4ft. Push 2: refusal at 4ft. Push 3: refusal at 4ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-643M-06

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 15" (3')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxxxxxxx	15"	1-3'	0 ppm	SM/ GM	Very poor sorted slag/sand crushed rock w/ traces of silt and clay	0	Push 1: refusal at 3ft. Push 2: refusal at 2ft. Push 3: refusal at 3ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-643M-07

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 25" (4')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxxxx	25"	1-3'	0 ppm	SM	Demolished sandstone. Wood chunk at approx. 3ft. Terra-cotta at approx. 4ft. Lg. rock frags, red brick chunks at 4ft.		Push 1: refusal at 4ft. Push 2: refusal at 4ft. Push 3: refusal at 4ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-643M-08

Sheet: 1 of 1

Date: 07/5/11

Site Name: LL1 Building CB-4A

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)

Logged By: Morgan Helfrich

Reviewed By: John Jent

Drilled By: Frontz Drilling

Driller: Ethan Frontz or Helper

Drilling Method: Push Probe

Total Depth: 34" (6')

Sampling Method: Core Barrel

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation: N/A

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-412M-03

Sheet: 1 of 1

Date: 06/30/11

Site Name: LL3 Building EB-04

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)

Logged By: Tomas Hernandez

Reviewed By: John Jent

Drilled By: Frontz Drilling

Driller: Ethan Frontz or Helper

Drilling Method: Push Probe

Total Depth: 28" (3')

Sampling Method: Core Barrel

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation: N/A

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxxxx	28"	1-3'	0 ppm	SC	Silty loam surface material 6" dark brown silty clay gravel (slag) 3" seam silty sand brown orange TD @ 28" s.s.		8:53am 1-3ft: push 1: 28" recovery push 2: less than 28" recovery push 3: less than 28" recovery
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-412M-01

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 60" (7')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-412M-02

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 30"
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	XXXXXXXX	50"	1-3'	0 ppm	CL	Silty clay with a rock sea approx. 10" from end. Gravel and trace rocks in first approx. 1-1.5 ft. Clay is gray to brown and terminates on slag.	0	2:58pm Pushed to 2.5ft. 3 times
5		34"					5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-412M-03

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 74" (7')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-412M-04

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 70" (7')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-412M-05

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 75" (7')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-412M-06

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 26"
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxxxxxxxxxxxxxxxxxxxx	26"	1-3' 3-5'	0 ppm	CL	brown silty clay and gravel. Last approx. 6" is very silty clay - moist and dark gray.		3:10pm Push 1: refusal at 4ft. Push 2: refusal at less than 4ft. push 3: refusal at less than 4ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-412M-07

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 84" (7')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-412M-08

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 68" (7')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-513M-02

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 12"
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	XXX	12"	1-3'	0 ppm	CL	silty clay		Poor recovery Pushed 3 times with very little material due to compact gravel.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-513M-03

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 8"
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	X X	8"	1-3'	0 ppm		gravel till. very wet		Pushed 3 times. To much water to get a good sample
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-513M-04

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 74" (7')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	XXXX

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-513M-05

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 74" (7')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	XXXX

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-513M-06

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 31" (5')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-513M-07

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 73" (7')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	XXXX

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-513M-08

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 68" (7')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-514M-01

Sheet: 1 of 1
Date: 06/30/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Tomas Hernandez
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 62" (7')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-514M-02

Sheet: 1 of 1
Date: 06/30/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Tomas Hernandez
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 47" (7')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-514M-03

Sheet: 1 of 1
Date: 06/30/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Tomas Hernandez
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 81" (7')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		57"	1-5'	0 ppm		Lt. Brown (tanish) silty clay, dense, very platy Lt. brown (orange) silty clay TD @ 7'		
5		24"	5-7'				5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-514M-04

Sheet: 1 of 1
Date: 06/30/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Tomas Hernandez
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 81" (7')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-514M-05

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 80"
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-514M-06

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 81"
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-514M-07

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 81"
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-514M-08

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 80"
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		56"	1-3'	0 ppm	CL	Brown/gray silty clay Gravel in first 12" Trace gravel through first few ft. Wet 56"-60" very dry 60"-67"		
5		24"	3-5' 5-7'			random trace gravel throughout	5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-515M-01

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 75"
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		57"	1-3'	0 ppm	CL	silty clay, brown/gray w/ trace gravel		
			3-5'		ML	57"-68" clayey silty w/ red/brown color. wet		
5		18"	5-7'		CL	68"-75" silty clay, gray	5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-515M-02

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 59"
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-515M-03

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 80"
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-515M-04

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 59" (7')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		35"	1-3'	0 ppm	CL	Brown/ gray silty clay to 18" Slag from 18"-23" Brown/gray silty clay w/ trace timber 23"-35"		
5			3-5'		CL	Silty/clay mostly gray w/ some gravel and trace organics	5	
		24"	5-7'		CH	Dense clay of high plasticity w/ some rock frags. 38"-59"		
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-515M-05

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 60"
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		36"		0 ppm	SC	Alternating sand/silty clays of brown and gray from 0"-12"		
			1-3'			12"-30" crushed slag and slag rock, trace organics		
						30"-33" very dark brown wet clay w/ gravel		
			3-5'		GM	33"-36" brown clay		
5						Brown/gray clay w/ trace gravel 36"-60"	5	
		24"	5-7'		CL			
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-515M-06

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 64"
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	XXXX

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-515M-07

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 31"
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxxxxx	31"	1-3'	0 ppm	CL/ GC	Brown/gray silty clay w/ some sand and gravel Very gravely at 20" w/ timber rotating clay and gravel to 27" to wet gray silty clay w/ some gravel		Push 1: refusal at 2ft Push 2: refusal at 2ft. Push 3: refusal at 3ft. Sampled
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL2-515M-08

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL2 Building DB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 59"
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-412M-01

Sheet: 1 of 1
Date: 06/30/11

Site Name: LL3 Building EB-04
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich & Tomas Herna
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 18"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxxxx	16"	1-3	0 ppm	Fill	3 pushes to 18", 2nd push used. 6" sandy material w/ gravel. 12" mixed fill material: sand/gravel/clay s.s. TD @ 18"		Push 1 - refusal at 1.5ft Push 2- refusal at 1.5ft. Sampled Push 3 - refusal at 1.5ft 8:20am
5				0 ppm			5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-412M-02

Sheet: 1 of 1
Date: 06/30/11

Site Name: LL3 Building EB-04
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Tomas Hernandez
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 36" (4')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	XXXXXXXXXXXXXXXX	24"	1-3'	0 ppm	CL	Dark brown dense clay (silty) Trace sand/silt at surface @ 22" crush-gravel material slag		8:30am 1-3ft: push 1: 24"
		12"	3-5'		Fill	Fill material - black, silty/caly Brown-dark brown mixed gravel		8:38am 4-7ft: push 1: 12" recovery push 2: 8" recovery
5					CL	TD @ 4' - sandy clay - dark brown orange s.s.	5	push 3: less than 8" recovery
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-412M-03

Sheet: 1 of 1
Date: 06/30/11

Site Name: LL3 Building EB-04
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Tomas Hernandez
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 28" (3')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxxxx	28"	1-3'	0 ppm	SC	Silty loam surface material 6" dark brown silty clay gravel (slag) 3" seam silty sand brown orange TD @ 28" s.s.		8:53am 1-3ft: push 1: 28" recovery push 2: less than 28" recovery push 3: less than 28" recovery
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-412M-04

Sheet: 1 of 1
Date: 06/30/11

Site Name: LL3 Building EB-04
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Tomas Hernandez
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 34" (3.5')
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	XXXXXXXXXXXX	29"	1-3'	0 ppm	CL	sandy loam surface 5"		9:05am
						gravel/clay tanish 10"		1-3ft: 1st push - 29" recovery
		5"	4-7'			Dark brown silty clay trans. to tan-orange silty sand - (wood) silty CL		4-7ft: push 1 - 5" recovery
5				0 ppm		TD @ 3.5 SS	5	push 2 - Less than 5" recovery
								push 3 - Less than 5" recovery
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-412M-05

Sheet: 1 of 1
Date: 06/30/11

Site Name: LL3 Building EB-04
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Tomas Hernandez
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 46" (4.5')
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	XXXXXXXXXXXXXXXXXXXX	28"	1-3'	0 ppm	CL	silty loam surface 6"		9:25am
					Fill	brown - dark brown silty clay interbedded silty sand seams and gravel		1-3ft: 1st push - 42" recovery
					CL	brown silty clay		4-7ft: push 1 - 18" recovery
		18"	4-7'			TD @ 4.5 SS		push 2 - Less than 18" recovery
5				0 ppm			5	push 3 - Less than 18" recovery
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-412M-06

Sheet: 1 of 1
Date: 06/30/11

Site Name: LL3 Building EB-04
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Tomas Hernandez
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 46" (1.5')
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	XXXXX	18"	1-3'	0 ppm	CL	Brown orange - dark brown silty clay to clay		9:55am
					Fill	TD @ 1.5ft SS, tan-buff		1-3ft:
			4-7'		CL			1st push - 14" recovery
								push 2 - 13" recovery
5				0 ppm			5	push 3 - Less than 13" recovery
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-412M-07

Sheet: 1 of 1
Date: 06/30/11

Site Name: LL3 Building EB-04
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Tomas Hernandez
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 33" (2.5')
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	XXXXX	33"	1-3'	0 ppm	CL	Black -Brown clay 9" Gravel sea 3" (slag) Trans. to orange brown to brown silty clay - sandy clay TD @ 2.5' SS		10:15am 1-3ft: 1st push - 33" recovery push 2 - 30" recovery push 3 - Less than 30" recovery
5				0 ppm			5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-412M-08

Sheet: 1 of 1
Date: 06/30/11

Site Name: LL3 Building EB-04
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Tomas Hernandez
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 30" (1.5')
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	XXXXX	30"	1-3'	0 ppm	CL	Silty/ caly loam 4" Brown silty clay trans. lt. brown/orange silty clay interbedded silty seams TD @ 1.5ft SS light brown sandstone		10:20am 1-3ft: push 1 - 30" recovery push 2 - 28" recovery push 3 - Less than 28" recovery
5				0 ppm			5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-413M-01

Sheet: 1 of 1
Date: 06/30/11

Site Name: LL3 Building EB-04
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Tomas Hernandez
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 53" (4.5')
Sampling Method: Core B
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxxxxxxx	41"	1-3'	0 ppm	CL	light silty clay trans. to light gray back to light orange borwn		11:05am 1-3ft: push 1 - 41" recovery
						Interbedded silty-sandy clay		3-7ft:
			3-5'			light orange-brown silty clay		push 1 - 12" recovery
5				0 ppm		TD @ 4.5' silty clay	5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-413M-02

Sheet: 1 of 1
Date: 06/30/11

Site Name: LL3 Building EB-04
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Tomas Hernandez
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 18"
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	XXXXX	18"	1-3'	0 ppm	CL	Clay - tanish orange trans. to a silty clay to sandstone TD @ 1.5' SS		11:31am 1-3ft: push 1- 8" recovery push 2- 18" recovery push 3- Less than 18" recovery
				0 ppm				
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-413M-03

Sheet: 1 of 1
Date: 06/30/11

Site Name: LL3 Building EB-04
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Tomas Hernandez
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 47" (6.5')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-413M-04

Sheet: 1 of 1
Date: 06/30/11

Site Name: LL3 Building EB-04
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Tomas Hernandez
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 56" (5')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-413M-05

Sheet: 1 of 1
Date: 06/30/11

Site Name: LL3 Building EB-04
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Tomas Hernandez
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 32" (3')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-413M-06

Sheet: 1 of 1
Date: 06/30/11

Site Name: LL3 Building EB-04
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Tomas Hernandez
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 38"
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxxxxxxxxxxxxxxxxxx	38"	1-3'	0 ppm	Fill CL	Brown to dark brown silty clay sandy silt seam at 28". Trans back to brownish orange silty clay TD @ 3.2'	0	1:50pm 1-5ft: push 1: 3.2' recovery push 2: 3.1' recovery
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-413M-07

Sheet: 1 of 1
Date: 06/30/11

Site Name: LL3 Building EB-04
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Tomas Hernandez
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 36" (3')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxxxxxxxxxxxxxxxxxx	36"	1-3'	0 ppm	Fill	Brown to dark brown silty clay 12"-18" wood Mixed w/ gravel (slag) sand and silt material followed by SS	0	1:58pm 1-5ft: push 1: 36" recovery push 2: 32" recovery push 3: less than 32" recovery
					CL	Dark black orange silty clay TD @ 3'		
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-413M-08

Sheet: 1 of 1
Date: 06/30/11

Site Name: LL3 Building EB-04
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Tomas Hernandez
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Push Probe

Total Depth: 36"
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxxxxxxxxxxxxxxxxxx	36"	1-3'	0 ppm	Fill	Brown to dark brown silty clay Gravel (slag) silty/sand trans. to dark brown red silty clay TD @ 3'	0	2:14pm 1-5ft: push 1: 3' recovery push 2: 3' recovery push 3: 3' recovery
5							5	
10							10	
15							15	
20							20	
25							25	

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BORING LOG: LL3-414M-01

Sheet: 1 of 1
Date: 06/29/11

Site Name: LL3 Building EB-10
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 37"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-414M-02

Sheet: 1 of 1
Date: 06/29/11

Site Name: LL3 Building EB-10
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 30"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxxxxxxxxxxxxxxxxxx	22"	0-3	0 ppm	CL to SM	crushed slag w/ gray clay - 4". Transition from gray clay to brown/tan v.f.g. sand at bottom. Brown sandy clay 3-5ft.	0	refusal at 5ft
		8"	3-7	0 ppm				
5							5	
10							10	
15							15	
20							20	
25							25	

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BORING LOG: LL3-414M-03

Sheet: 1 of 1
Date: 06/29/11

Site Name: LL3 Building EB-10
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 45"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-414M-04

Sheet: 1 of 1
Date: 06/29/11

Site Name: LL3 Building EB-10
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 42"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxxxxxxxxxxxxxxxxxx	22"	0-3	0 ppm	SM	F.g. sand, brown w/ gray clay from 5"-25" w/ more clay at bottom. Wet f.g. brown sand 25"-42" w/ a layer of gray clay at 38"	0	refusal at 6ft
			3-7					
5		20"		0 ppm			5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-414M-05

Sheet: 1 of 1
Date: 06/29/11

Site Name: LL3 Building EB-10
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 28"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-414M-06

Sheet: 1 of 1
Date: 06/29/11

Site Name: LL3 Building EB-10
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 35"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-414M-07

Sheet: 1 of 1
Date: 06/29/11

Site Name: LL3 Building EB-10
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 22"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxxxxx	22"	0-3	0 ppm	GC/ SM	Lt. brown sandy fill and layered gray clay. 6" down brown sandy silt. 16" down gray clay layer approx. 5". Last approx. 4" is lt. tan sandy fill w/ rock.	0	Push 1 -refusal at 1.5ft Push 2 -refusal at 2.5ft
			3-7	0 ppm				
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-414M-08

Sheet: 1 of 1
Date: 06/29/11

Site Name: LL3 Building EB-10
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 16"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxxxxxxx	16"	0-3	0 ppm	GC	Gray calys mixed w/ brown/tan sandy silt. Mixed salg	0	Push 1 -refusal at 3ft
								Push 2 -refusal at 3ft
								Push 3 -refusal at 3ft
			3-7					
5				0 ppm			5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-414M-09

Sheet: 1 of 1
Date: 06/29/11

Site Name: LL3 Building EB-10
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 32"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxxxxxxx	25"	0-3	0 ppm	SM	Dark brown sandy/silt w/ slag at 3" and 19". Grain size fining toward bottom.		Push 1 -refusal at 4ft
		7"	3-7	0 ppm	CL	Sandy silt and clay. Dark brown w/ some rock frags.		Push 2 -refusal at 3.5ft
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-414M-10

Sheet: 1 of 1
Date: 06/29/11

Site Name: LL3 Building EB-10
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 24"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxxxx	24"	0-3	0 ppm	GM SC	Poorly sorted brown sandy fill. Slag at 10". Sandy silt after slag 10"-19". Vein of dark organics and dark red clay 19"-20". Brown and gray silty clay 20"-24"	0	Push 1 -refusal at 2.5ft Push 2 -refusal at 2ft Push 3 -refusal at 3ft. sampled
			3-7	0 ppm				
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-415M-01

Sheet: 1 of 1
Date: 06/29/11

Site Name: LL3 Building EB-10
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich & Amanda Mille
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 48"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-415M-02

Sheet: 1 of 1
Date: 06/29/11

Site Name: LL3 Building EB-10
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 22"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxxx	22"	0-5	0 ppm	SM/ CL	Dark brown silty clay grading to a dense clay. Blunt transition to lt. brown sand (f.g.)	0	Pushed 1st time to 2.5ft. Refusal @ 3ft. @9:42am.
								Sampled 2nd push.
								Pushed 3 times total.
								Refusal @ 3ft. Stop Push
5			5-7	0 ppm			5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-415M-03

Sheet: 1 of 1
Date: 06/29/11

Site Name: LL3 Building EB-10
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 21"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	XXXXX	21"	0-5	0 ppm	SM	White/tan f.g. sandy fill. Transition to a lt.brown silty sand. well sorted	0	Pushed 1st time to 2ft. with very little recovery. Hit refusal @ 3ft. Push 2 hit refusal at 2.75ft. Push 3 hit refusal at 3ft.
5			5-7	0 ppm			5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-415M-04

Sheet: 1 of 1
Date: 06/29/11

Site Name: LL3 Building EB-10
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 25"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxxxx	25"	0-5	0 ppm	GC to SM/ CL	Using push 3 as sample. Poorly sorted v.f.g. silt/sand and pebbles. lt. brown first 10". Fewer pebbles after 10". 10"-12" very lt. brown sandy material w/ interbedded clay. Blunt transition to ark brown/red clay/silt 12"-14". Last few inches a sandy red w/ interbedded gray clay	0	Push 1 hit refusal at 3ft.
								Push 2 hit refusal at 3ft.
								Push 3 hit refusal at 3ft.
5			5-7	0 ppm			5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-415M-05

Sheet: 1 of 1
Date: 06/29/11

Site Name: LL3 Building EB-10
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 27"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxxxx	27"	0-5	0 ppm	GC	Poorly sorted silt/sand/pebbles, brown in color. Slag at 6" and turning gray then back to dark brown. Transitioning clay and sand layers. Turned to lt. brown f.g. sand w/ gray clay layers at 20"	0	Push 1 hit refusal at 3ft.
					SM/ CL			Push 2 hit refusal at 3ft.
								Push 3 hit refusal at 3ft.
5			5-7	0 ppm			5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-415M-06

Sheet: 1 of 1
Date: 06/29/11

Site Name: LL3 Building EB-10
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 45"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-415M-07

Sheet: 1 of 1
Date: 06/29/11

Site Name: LL3 Building EB-10
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 39"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-415M-08

Sheet: 1 of 1
Date: 06/29/11

Site Name: LL3 Building EB-10
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 38"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxxxxxxxxxxxxxxx	28"	0-3	0 ppm	SC	Sample is fill material consisting of sand, gravel, organic material, clay and silt		12:30pm pushed to 4.5ft pushed to 4ft 2 times
		10"	3-7			--- Moist silty clay with gravels - dark gray to brown. Terminates at s.s.		12:32pm timber present @ 1ft - smelled like petroleum.
5				0 ppm			5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-415M-09

Sheet: 1 of 1
Date: 06/29/11

Site Name: LL3 Building EB-10
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 18"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxxxx	18"	0-3	0 ppm	CL	Fill material with organic material, slag sandstone and clay.	0	Pushed 3 times to 2ft.
			3-7	0 ppm				
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-415M-10

Sheet: 1 of 1
Date: 06/29/11

Site Name: LL3 Building EB-10
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 24"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxxxx	24"	0-3	0 ppm	SC	San d and s.s. at approx. 3", then slag for approx. 6", platy clay -crumbly gray to brown. terminates at sandstone	0	1st push to 2.25ft 2nd and 3rd at 2.25ft.
			3-7	0 ppm				
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL3-513M-01

Sheet: 1 of 1
Date: 07/1/11

Site Name: LL3 Building DB-4
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 63" (7')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-407M-1

Sheet: 1 of 1
Date: 06/27/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 78"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-407M-2

Sheet: 1 of 1
Date: 06/27/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 48"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-407M-3

Sheet: 1 of 1

Date: 06/27/11

Site Name: LL4 Building

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)

Logged By: Amanda Miller

Reviewed By: John Jent

Drilled By: Frontz Drilling

Driller: Ethan Frontz

Drilling Method: Geo Probe

Total Depth: 81"

Sampling Method:

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation:

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-407M-4

Sheet: 1 of 1
Date: 06/27/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 49"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxxxxxxxxxxxxxxxxxxx	41"	0-5	0 ppm	GC	Light brown clay and gravel with slag - mostly fill material first approx. 16". Next approx. 25" is brown clay and gravel with more sand than top approx. 16"	0	1:13pm
5		08"	5-7	0 ppm	CL	Clay, platy with gravel and slag, light brown	5	1:16pm
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-407M-5

Sheet: 1 of 1
Date: 06/27/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 82"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxxxxxxxxxxxxxxxxxx	58"	0-5	0 ppm	CL	First approx. 5" is slag and organic, then platy clay light tan-orange in color, uniform throughout rest of boring. More orange as it gets deeper.	0	12:57pm
5	xxxxxxxxxxxxxxxxxxxx	24"	5-7	0 ppm	CL	Tan and orange clay, platy, uniform some specks of red/brown	5	1:03pm
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-407M-6

Sheet: 1 of 1
Date: 06/27/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 78"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-407M-7

Sheet: 1 of 1

Date: 06/27/11

Site Name: LL4 Building

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)

Logged By: Amanda Miller

Reviewed By: John Jent

Drilled By: Frontz Drilling

Driller: Ethan Frontz

Drilling Method: Geo Probe

Total Depth: 87"

Sampling Method:

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation:

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-407M-8

Sheet: 1 of 1
Date: 06/27/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 72"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-410M-01

Sheet: 1 of 1

Date: 06/27/11

Site Name: LL4 Building

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)

Logged By: Amanda Miller

Reviewed By: John Jent

Drilled By: Frontz Drilling

Driller: Ethan Frontz

Drilling Method: Geo Probe

Total Depth: 49"

Sampling Method:

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation:

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-410M-02

Sheet: 1 of 1
Date: 06/27/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 51"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-410M-03

Sheet: 1 of 1
Date: 06/27/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 52"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-410M-04

Sheet: 1 of 1
Date: 06/27/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 48"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxxxxxxxxxxxxxxxxxxx	27"	0-5	0 ppm	SC	Timber pieces and black organics present @ approx. 14" . First approx. 14" is sandy silts w/ some grave;. Brown . Last approx. 11" is uniform, platy clay, brown. Timber present @ last approx. 2"	0	4:10pm wood present
5		21"	5-7	0 ppm	CL	brown, uniform, clay some is dark brown/gray	5	4:13pm
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-410M-05

Sheet: 1 of 1

Date: 06/27/11

Site Name: LL4 Building

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)

Logged By: Amanda Miller

Reviewed By: John Jent

Drilled By: Frontz Drilling

Driller: Ethan Frontz

Drilling Method: Geo Probe

Total Depth: 58"

Sampling Method:

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation:

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-410M-06

Sheet: 1 of 1
Date: 06/27/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 47"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-410M-07

Sheet: 1 of 1
Date: 06/27/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 57"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-410M-08

Sheet: 1 of 1
Date: 06/27/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 51"
Sampling Method: Split Spoon
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		24"	0-5	0 ppm		sand and silt, trace gravel and slag first 9", then more clay. last approx. 15" is brown clay		5:32pm timber present @ top foot. made 3 attempts to get better recovery. hitting rock
5		27"	5-7	0 ppm		brown clay with trace slag around approx. 4", then clay for approx. 8" with approx. 2" sand seam - moist, last approx.14" is moist swollen clay.	5	5:26pm
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-411M-1

Sheet: 1 of 1

Date: 06/27/11

Site Name: LL4 Building

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)

Logged By: Morgan Helfrich

Reviewed By: John Jent

Drilled By: Frontz Drilling

Driller: Ethan Frontz

Drilling Method: Geo Probe

Total Depth: 45"

Sampling Method:

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation:

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxxxxxxxxxxxxxxx	25"	0-5	0 ppm	GM	0"-13" coarse sandy brown/grey fill w/ organics		
						13"-15" dark red sand		
					CL	15-25" grey/brown clay		
5		20"	5-7	0 ppm	CL	25"-45" grey/brown mixed clay	5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-411M-2

Sheet: 1 of 1
Date: 06/27/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 60"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-411M-3

Sheet: 1 of 1
Date: 06/27/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 58"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-411M-4

Sheet: 1 of 1

Date: 06/27/11

Site Name: LL4 Building

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)

Logged By: Morgan Helfrich

Reviewed By: John Jent

Drilled By: Frontz Drilling

Driller: Ethan Frontz

Drilling Method: Geo Probe

Total Depth: 54"

Sampling Method:

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation:

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-411M-5

Sheet: 1 of 1

Date: 06/27/11

Site Name: LL4 Building

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)

Logged By: Morgan Helfrich

Reviewed By: John Jent

Drilled By: Frontz Drilling

Driller: Ethan Frontz

Drilling Method: Geo Probe

Total Depth: 65"

Sampling Method:

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation:

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-411M-6

Sheet: 1 of 1
Date: 06/27/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 45"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-411M-7

Sheet: 1 of 1
Date: 06/27/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller & Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 61"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-411M-8

Sheet: 1 of 1
Date: 06/27/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 70"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-413M-01

Sheet: 1 of 1
Date: 06/28/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 78"
Sampling Method: Split Spoon
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-413M-02

Sheet: 1 of 1
Date: 06/28/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 78"
Sampling Method: Split Spoon
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
		57"	0-5	0 ppm		boring is gray to orange clay similar to previous trace gravel near top 1.5 feet		12:44pm
5		21"	5-7	0 ppm		clay is uniform clay gray and orange	5	12:44pm
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-413M-03

Sheet: 1 of 1
Date: 06/28/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 72"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-413M-04

Sheet: 1 of 1
Date: 06/28/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 48"
Sampling Method: Split Spoon
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-413M-05

Sheet: 1 of 1

Date: 06/28/11

Site Name: LL4 Building

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)

Logged By: Amanda Miller

Reviewed By: John Jent

Drilled By: Frontz Drilling

Driller: Ethan Frontz

Drilling Method: Geo Probe

Total Depth: 68"

Sampling Method: Split Spoon

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation:

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-413M-06

Sheet: 1 of 1
Date: 06/28/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 12"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-413M-07

Sheet: 1 of 1
Date: 06/28/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 48"
Sampling Method: Split Spoon
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-413M-08

Sheet: 1 of 1
Date: 06/28/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 88"
Sampling Method:
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-415M-01

Sheet: 1 of 1
Date: 06/28/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 81"
Sampling Method: Split Spoon
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-415M-02

Sheet: 1 of 1
Date: 06/28/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 65"
Sampling Method: Split Spoon
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-415M-03

Sheet: 1 of 1
Date: 06/28/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 61"
Sampling Method: Split Spoon
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-415M-04

Sheet: 1 of 1
Date: 06/28/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 79"
Sampling Method: Split Spoon
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-415M-05

Sheet: 1 of 1
Date: 06/28/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 63"
Sampling Method: Split Spoon
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-415M-06

Sheet: 1 of 1
Date: 06/28/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 81"
Sampling Method: Split Spoon
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-415M-07

Sheet: 1 of 1
Date: 06/28/11

Site Name: LL4 Building
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Amanda Miller
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz
Drilling Method: Geo Probe

Total Depth: 88"
Sampling Method: Split Spoon
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation:
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL4-415M-08

Sheet: 1 of 1

Date: 06/28/11

Site Name: LL4 Building

Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)

Logged By: Amanda Miller

Reviewed By: John Jent

Drilled By: Frontz Drilling

Driller: Ethan Frontz

Drilling Method: Geo Probe

Total Depth: 80"

Sampling Method:

Groundwater Depth: N/A

Groundwater Measurement: N/A

TOC Elevation:

Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-644,645,646M-01

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 32"
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxx	32"	1-3'	0 ppm	CL/ SM	Brown/gray silty clay 0"-14". Approx. 14"-32" red/brown silty sand gravel and rock frags. throughout.		644 - refusal at 2.5ft
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-644,645,646M-02

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 52" (7')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-644,645,646M-03

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 47" (6')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
0	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-644,645,646M-04

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 33" (4')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxxxxxxxxxxx	33"	1-3' 3-5'	0 ppm	SM GM	Doark brown clayey silt w/ some v.f.g. sand 4-4ft is silty sand w/ lots of gravel and crushed rock fill. Terminating on sandstone. Saturated at bottom		644 - refusal to 4ft. 645 - refusal at 4ft. 646 - refusal at 4ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-644,645,646M-05

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 32" (3')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxxxx	32"	1-3'	0 ppm	SM	Brown silty/clayey sand w/ lots of rock frags. All fill. Very Fe rich at last 3".		644 - refusal to 3ft. 645 - refusal at 3ft. 646 - refusal at 3ft.
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-644,645,646M-06

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 28" (5')
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxx

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-644,645,646M-07

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 28"
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxxxx	28"	1-3'	0 ppm	SM	Silty clayey sand of brown/gray. Dark broan layer at 6" overlying red/brown silty sand fading to a lt. brown silty sand. Terminating on sandstone.		644 - refusal at 3ft 645 - refusal at 3ft 646 - refusal at 3ft
5							5	
10							10	
15							15	
20							20	
25							25	

PRUDENT TECHNOLOGIES, INC. dba Prudent Environmental Services, Inc.

BORING LOG: LL1-644,645,646M-08

Sheet: 1 of 1
Date: 07/5/11

Site Name: LL1 Building CB-4A
Site Address: Ravenna Army Ammunition Plant, Ravenna, Ohio

Project No: G-510001 (LL 1-4, 12)
Logged By: Morgan Helfrich
Reviewed By: John Jent

Drilled By: Frontz Drilling
Driller: Ethan Frontz or Helper
Drilling Method: Push Probe

Total Depth: 23"
Sampling Method: Core Barrel
Groundwater Depth: N/A

Groundwater Measurement: N/A
TOC Elevation: N/A
Groundwater Elevation: N/A

Depth (Feet)	Interval	% Recovery	Sample ID	PID/FID (ppm)	USCS	Soil Description	Depth (Feet)	Comments
	xxxxxxx	23"	1-3'	0 ppm	SM	Brown silty sand w/ rock frags. and gravel throughout. All Fill		Push 1: refusal at 2ft. - 644 Push 2: refusal at 2ft. - 645 Push 3: refusal at 2.5ft. - 646
5							5	
10							10	
15							15	
20							20	
25							25	

Appendix F – Laboratory Data

(Provided in the attached CD)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica North Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-1585-1
Client Project/Site: RVAAP

For:
Prudent Technologies, Inc
4242 Medical Drive
Suite 7250
San Antonio, Texas 78229

Attn: Ms. Amanda L. Miller

Authorized for release by:
09/26/2011 03:10:51 PM

Mark Loeb
Project Manager II
mark.loeb@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
Q	One or more quality control criteria failed.
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
J	Estimated: The analyte was positively identified; the quantitation is an estimation

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
M	Manual integrated compound.
Q	One or more quality control criteria failed.
D	The reported value is from a dilution.
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
J	Estimated: The analyte was positively identified; the quantitation is an estimation

GC Semi VOA

Qualifier	Qualifier Description
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.
Q	One or more quality control criteria failed.
H	Sample was prepped or analyzed beyond the specified holding time
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.

HPLC

Qualifier	Qualifier Description
a	Spiked analyte recovery is outside stated control limits.

Metals

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
J	Estimated result. Result is less than RL.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-1585-1

Laboratory: TestAmerica North Canton

Narrative

CASE NARRATIVE

Client: Prudent Technologies, Inc

Project: RVAAP

Report Number: 240-1585-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

TestAmerica utilizes USEPA approved methods and DOD QSM, where applicable, in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters for which TestAmerica North Canton has certification were evaluated to the limit of detection (LOD) and include qualified results where applicable. Parameters not certified under QSM, if any, were evaluated to the detection limit (DL) and include qualified results where applicable.

The sample(s) that contain constituents flagged with U are undetected. The result associated with this flag is the limit of detection (LOD).

RECEIPT

The samples were received on 06/27/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 4.7 and 5.3 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples LL4SS-416V-0001/0002-SO (240-1585-8) and LL4SS--417V-0001-SO (240-1585-9) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B DoD. The samples were analyzed on 07/08/2011.

4-Bromofluorobenzene (Surr) and Toluene-d8 (Surr) failed the surrogate recovery criteria low for LL4SS-416V-0001/0002-SO (240-1585-8).

4-Bromofluorobenzene (Surr) and Toluene-d8 (Surr) failed the surrogate recovery criteria low for LL4SS--417V-0001-SO (240-1585-9).

Job ID: 240-1585-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

4-Bromofluorobenzene (Surr) and Toluene-d8 (Surr) failed the surrogate recovery criteria low for MB 240-7596/6-A.

4-Bromofluorobenzene (Surr) and Toluene-d8 (Surr) failed the surrogate recovery criteria low for LCS 240-7596/7-A.

4-Bromofluorobenzene (Surr) and Toluene-d8 (Surr) failed the surrogate recovery criteria low for LL4SS-416V-0001/0002-SOMS (240-1585-8MS).

Surrogate recovery for the following samples and QC were outside of acceptance limits: LL4SS-416V-0001/0002-SO, LL4SS--417V-0001-SO. There was insufficient sample to perform a re-extraction; therefore, the data have been reported.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC MS)

Samples LL4SS-412M-0001-SO (240-1585-1), LL4SS-414M-0001/0002-SO (240-1585-2), LL4SS-419M-0001-SO (240-1585-3), LL4SS-420M-0001-SO (240-1585-4), LL4SB-421M-0001-SO (240-1585-5), LL4SS-416M-0001/0002-SO (240-1585-6), LL4SS-417M-0001-SO (240-1585-7), L12SS-306M-0001-SO (240-1585-10), L12SS-305M-0001-SO (240-1585-11), L12SS-303M-0001-SO (240-1585-12) and L12SS-304M-0001/0002-SO (240-1585-13) were analyzed for semivolatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8270 DoD. The samples were leached on 07/05/2011, prepared on 07/06/2011 and 07/08/2011 and analyzed on 07/18/2011, 07/23/2011, 07/27/2011 and 07/30/2011.

2,4,6-Tribromophenol (Surr) failed the surrogate recovery criteria low for L12SS-306M-0001-SO (240-1585-10).

2,4,6-Tribromophenol (Surr) failed the surrogate recovery criteria low for L12SS-304M-0001/0002-SO (240-1585-13).

2,4,6-Tribromophenol (Surr) failed the surrogate recovery criteria low for L12SS-304M-0001/0002-SOMS (240-1585-13MS).

2,4,6-Tribromophenol (Surr) failed the surrogate recovery criteria low for L12SS-304M-0001/0002-SOMSD (240-1585-13MSD).

Several analytes failed the recovery criteria low for the MS of sample L12SS-304M-0001/0002-SOMS (240-1585-13) in batch 240-10089. For the MSD of sample L12SS-304M-0001/0002-SOMSD (240-1585-13) in batch 240-10089, Indeno[1,2,3-cd]pyrene failed the recovery criteria low. Several analytes failed the recovery criteria high. Also, Naphthalene exceeded the rpd limit. Refer to the QC report for details.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount. Refer to the QC report for details.

Samples L12SS-306M-0001-SO (240-1585-10)[2X], L12SS-305M-0001-SO (240-1585-11)[4X], L12SS-303M-0001-SO (240-1585-12)[20X] and L12SS-304M-0001/0002-SO (240-1585-13)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the SVOCs analyses. All other quality control parameters were within the acceptance limits.

CHLORINATED PESTICIDES

Samples LL4SS-416M-0001/0002-SO (240-1585-6) and LL4SS-417M-0001-SO (240-1585-7) were analyzed for chlorinated pesticides in accordance with EPA SW-846 Method 8081A DoD. The samples were leached on 07/05/2011, prepared on 07/06/2011 and analyzed on 07/29/2011.

The laboratory control sample (LCS))for batch 7329 exceeded control limits for the following analytes: delta-BHC, Lindane, and gamma-Chlordane. These analytes were biased high in the LCS and were not detected above the reporting limits for these analytes in the associated samplesLL4SS-416M-0001/0002-SO, LL4SS-417M-0001-SO; therefore the data have been reported.

Several analytes failed the recovery criteria low for the MS of sample LL4SS-416M-0001/0002-SOMS (240-1585-6) in batch 240-10143. 4,4'-DDE failed the recovery criteria high. For the MSD of sample LL4SS-416M-0001/0002-SOMSD (240-1585-6) in batch 240-10143, Several analytes failed the recovery criteria low. 4,4'-DDD failed the recovery criteria high. Also, alpha-BHC and Endrin ketone exceeded the rpd limit. Refer to the QC report for details.

Job ID: 240-1585-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

Samples LL4SS-416M-0001/0002-SO (240-1585-6)[20X] and LL4SS-417M-0001-SO (240-1585-7)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

In the initial calibration for the associated samples LL4SS-416M-0001/0002-SO and LL4SS-417M-0001-SO the level 6 peak for alpha-BHC was disabled because of matrix interference and the alpha-BHC second source (ICV) failed QC criteria on the rear column only. The front column is used as the primary column. Due to TALS limitations, the E flag associated with alpha-BHC in the batch laboratory control sample (LCS) can not be removed but the result is within the ICAL range on the primary column and is acceptable.

The surrogate TCMX is reported from the confirmation column for batch 7329 laboratory control spike (LCS) and for the associated samples LL4SS-416M-0001/0002-SO and LL4SS-417M-0001-SO because of matrix interferences on the primary column.

Heptachlor is reported from the confirmation column for batch 7329 matrix spike (MS) and matrix spike duplicate (MSD) because of matrix interference on the confirmation column.

The closing continuing calibration verification (CCV) recovered DDD above the upper control limit. The samples associated with this CCVLL4SS-416M-0001/0002-SO, LL4SS-417M-0001-SO were not detected above the reporting limit for DDD; therefore the data have been reported.

The closing Technical Chlordane continuing calibration verification (CCV) was recovered above the upper control limit. The samples associated with this CCVLL4SS-416M-0001/0002-SO, LL4SS-417M-0001-SO were not detected above the reporting limit for Technical Chlordane ; therefore the data have been reported.

No other difficulties were encountered during the pesticides analyses. All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples LL4SS-416M-0001/0002-SO (240-1585-6) and LL4SS-417M-0001-SO (240-1585-7) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082 DOD. The samples were leached on 07/05/2011, prepared on 07/06/2011 and 07/20/2011 and analyzed on 07/16/2011 and 07/22/2011.

DCB Decachlorobiphenyl failed the surrogate recovery criteria high for LL4SS-416M-0001/0002-SOMSD (240-1585-6MSD). Refer to the QC report for details.

Aroclor 1260 failed the recovery criteria low for the MS of sample LL4SS-416M-0001/0002-SOMS (240-1585-6) in batch 240-9453. Refer to the QC report for details.

The following sample was prepared outside of preparation holding time: LL4SS-416M-0001/0002-SO. The client specific MS/MSD was incorrectly spiked. Therefore both sets of results are reported.

No other difficulties were encountered during the PCBs analyses. All other quality control parameters were within the acceptance limits.

TOTAL METALS (ICPMS)

Samples LL4SS-416M-0001/0002-SO (240-1585-6) and LL4SS-417M-0001-SO (240-1585-7) were analyzed for total metals (ICPMS) in accordance with EPA SW-846 Method 6020 DoD. The samples were leached on 07/05/2011, prepared on 07/15/2011 and 09/01/2011 and analyzed on 08/26/2011, 08/29/2011 and 09/08/2011.

Aluminum was detected in method blank MB 240-14048/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged.

Nickel was detected in method blank MB 240-8611/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

Iron failed the recovery criteria low for the MS of sample LL4SS-416M-0001/0002-SO (240-1585-6) in batch 240-14738. Manganese, Zinc

Job ID: 240-1585-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

and Aluminum failed the recovery criteria high. Barium, Manganese, Aluminum and Calcium failed the recovery criteria high for the MSD of sample LL4SS-416M-0001/0002-SO (240-1585-6) in batch 240-14738. Zinc exceeded the rpd limit. Refer to the QC report for details.

Sample LL4SS-416M-0001/0002-SO (240-1585-6)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

MERCURY

Samples LL4SS-416M-0001/0002-SO (240-1585-6) and LL4SS-417M-0001-SO (240-1585-7) were analyzed for Mercury in accordance with EPA SW-846 7471A DOD. The samples were leached on 07/05/2011, prepared on 07/15/2011 and analyzed on 07/18/2011.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM

Samples LL4SS-416M-0001/0002-SO (240-1585-6) and LL4SS-417M-0001-SO (240-1585-7) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were leached on 07/05/2011, prepared on 07/18/2011 and analyzed on 07/20/2011.

No difficulties were encountered during the hexavalent chromium analyses. All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples LL4SS-412M-0001-SO (240-1585-1), LL4SS-414M-0001/0002-SO (240-1585-2), LL4SS-419M-0001-SO (240-1585-3), LL4SS-420M-0001-SO (240-1585-4), LL4SB-421M-0001-SO (240-1585-5), LL4SS-416M-0001/0002-SO (240-1585-6), LL4SS-417M-0001-SO (240-1585-7), LL4SS-416V-0001/0002-SO (240-1585-8), LL4SS--417V-0001-SO (240-1585-9), L12SS-306M-0001-SO (240-1585-10), L12SS-305M-0001-SO (240-1585-11), L12SS-303M-0001-SO (240-1585-12) and L12SS-304M-0001/0002-SO (240-1585-13) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 07/02/2011 and 07/05/2011.

No difficulties were encountered during the % solids analyses. All quality control parameters were within the acceptance limits.

Method Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1585-1

Method	Method Description	Protocol	Laboratory
8260B/DoD	Volatile Organic Compounds (GC/MS)	SW846	TAL NC
8270C/DoD	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NC
8081/DOD	Organochlorine Pesticides (GC)	SW846	TAL NC
8082/DOD	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL NC
8330 (Modified)	Organic Compounds by UV/HPLC	SW846	TAL WSC
8330/8330A	Nitroaromatics & Nitramines: Explosives (8330/A)	SW846	TAL WSC
6020/DOD	Metals (ICP/MS)	SW846	TAL NC
7471/DOD	Mercury (CVAA)	SW846	TAL NC
7196A	Chromium, Hexavalent	SW846	TAL NC
D 2216-90	Moisture, Percent (D2216-90) - AFCEE	ASTM	TAL WSC
Moisture	Percent Moisture	EPA	TAL NC
WS-WC-0050	Nitrocellulose as N by WS-WC-0050	TAL-SOP	TAL WSC

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-SOP = TAL-SOP

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1585-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-1585-1	LL4SS-412M-0001-SO	Solid	06/26/11 11:20	06/27/11 16:41
240-1585-2	LL4SS414M0001/0002SO	Solid	06/26/11 12:00	06/27/11 16:41
240-1585-3	LL4SS-419M-0001-SO	Solid	06/26/11 09:15	06/27/11 16:41
240-1585-4	LL4SS-420M-0001-SO	Solid	06/26/11 10:30	06/27/11 16:41
240-1585-5	LL4SB-421M-0001-SO	Solid	06/26/11 10:30	06/27/11 16:41
240-1585-6	LL4SS416M0001/0002SO	Solid	06/26/11 14:00	06/27/11 16:41
240-1585-7	LL4SS-417M-0001-SO	Solid	06/26/11 14:06	06/27/11 16:41
240-1585-8	LL4SS416V0001/0002SO	Solid	06/26/11 14:10	06/27/11 16:41
240-1585-9	LL4SS-417V-0001-SO	Solid	06/26/11 14:10	06/27/11 16:41
240-1585-10	L12SS-306M-0001-SO	Solid	06/26/11 15:20	06/27/11 16:41
240-1585-11	L12SS-305M-0001-SO	Solid	06/26/11 15:30	06/27/11 16:41
240-1585-12	L12SS-303M-0001-SO	Solid	06/26/11 15:50	06/27/11 16:41
240-1585-13	L12SS304M0001/0002SO	Solid	06/26/11 16:25	06/27/11 16:41

Detection Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1585-1

Client Sample ID: LL4SS-412M-0001-SO — Lab Sample ID: 240-1585-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	11		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Anthracene	12		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	32		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	43		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	79	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	36	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	46	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	59		6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	59		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	31	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Naphthalene	10		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	57		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	30		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL4SS414M0001/0002SO — Lab Sample ID: 240-1585-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	7.9		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Anthracene	31		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	57		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	60		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	140	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	49		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	56	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	130		6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	13		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	77		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	46		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	140		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	27		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL4SS-419M-0001-SO — Lab Sample ID: 240-1585-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	6.9		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Anthracene	9.5		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	34		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	30		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	53	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	23	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	22	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	36		6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	70		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluorene	8.3		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	22		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Naphthalene	15		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	57		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	52		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL4SS-420M-0001-SO — Lab Sample ID: 240-1585-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	82		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Acenaphthylene	22		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL4SS-420M-0001-SO (Continued)

Lab Sample ID: 240-1585-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	160		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	480		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	380		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	510	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	220		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	260	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	430		6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	65	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	1100		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluorene	75		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	200		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Naphthalene	20		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	860		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	750		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL4SB-421M-0001-SO

Lab Sample ID: 240-1585-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	15		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	13		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	19	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	8.9		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	9.2	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	17		6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	33		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	7.9		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	27		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	27		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL4SS416M0001/0002SO

Lab Sample ID: 240-1585-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	24		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Anthracene	46	J	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	110		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	270	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	120	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	250	J	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluorene	9.7		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	210	J	6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	28		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Dibenzofuran	18	J	51	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	140		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	130	J	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Di-n-butyl phthalate	18	J	51	15	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	100		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
2-Methylnaphthalene	45		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Naphthalene	31		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	230		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	110		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Bis(2-ethylhexyl) phthalate	130		51	19	ug/Kg	1	☼	8270C/DoD	Total/NA
Aluminum	5900	J	10	2.5	mg/Kg	1	☼	6020/DOD	Total/NA
Antimony	0.090	J	0.20	0.061	mg/Kg	1	☼	6020/DOD	Total/NA
Arsenic	8.0		0.50	0.052	mg/Kg	1	☼	6020/DOD	Total/NA

Client Sample ID: LL4SS416M0001/0002SO (Continued)

Lab Sample ID: 240-1585-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Barium	67	J	0.50	0.13	mg/Kg	1	☼	6020/DOD	Total/NA
Beryllium	0.48	J D	0.50	0.017	mg/Kg	5	☼	6020/DOD	Total/NA
Cadmium	0.37	J D	0.99	0.015	mg/Kg	5	☼	6020/DOD	Total/NA
Calcium	4500	J	200	40	mg/Kg	1	☼	6020/DOD	Total/NA
Chromium	19		0.50	0.16	mg/Kg	1	☼	6020/DOD	Total/NA
Cobalt	6.3	D	0.50	0.022	mg/Kg	5	☼	6020/DOD	Total/NA
Copper	14		0.40	0.11	mg/Kg	1	☼	6020/DOD	Total/NA
Iron	16000	J	51	11	mg/Kg	1	☼	6020/DOD	Total/NA
Lead	22		0.30	0.070	mg/Kg	1	☼	6020/DOD	Total/NA
Magnesium	1900		100	9.0	mg/Kg	1	☼	6020/DOD	Total/NA
Manganese	430	D J	2.5	0.79	mg/Kg	5	☼	6020/DOD	Total/NA
Nickel	24		0.50	0.086	mg/Kg	1	☼	6020/DOD	Total/NA
Potassium	710		100	3.8	mg/Kg	1	☼	6020/DOD	Total/NA
Selenium	0.81		0.50	0.021	mg/Kg	1	☼	6020/DOD	Total/NA
Sodium	38	J	100	14	mg/Kg	1	☼	6020/DOD	Total/NA
Thallium	0.12	J	0.20	0.056	mg/Kg	1	☼	6020/DOD	Total/NA
Vanadium	12		0.50	0.043	mg/Kg	1	☼	6020/DOD	Total/NA
Zinc	110	D J	20	5.0	mg/Kg	5	☼	6020/DOD	Total/NA
Mercury	0.024	J	0.094	0.013	mg/Kg	1	☼	7471/DOD	Total/NA
Hexavalent chromium	1.0		0.82	0.28	mg/Kg	1	☼	7196A	Total/NA

Analyte	Result	Qualifier	LOQ	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrocellulose	3.2	J	5.9	0.92	mg/kg	1	☼	WS-WC-0050	Total

Client Sample ID: LL4SS-417M-0001-SO

Lab Sample ID: 240-1585-7

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	6.6	J	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Acenaphthylene	20		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Anthracene	33		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	87		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	250	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	76	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	140		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluorene	10		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	140		6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	27		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Dibenzofuran	20	J	51	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	120		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	110		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	87		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
2-Methylnaphthalene	74		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Naphthalene	56		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	140		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	68		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Bis(2-ethylhexyl) phthalate	150		51	19	ug/Kg	1	☼	8270C/DoD	Total/NA
Aluminum	7000		10	2.5	mg/Kg	1	☼	6020/DOD	Total/NA
Antimony	0.092	J	0.20	0.062	mg/Kg	1	☼	6020/DOD	Total/NA
Arsenic	8.3		0.50	0.052	mg/Kg	1	☼	6020/DOD	Total/NA
Barium	70		0.50	0.13	mg/Kg	1	☼	6020/DOD	Total/NA
Beryllium	0.46		0.10	0.0035	mg/Kg	1	☼	6020/DOD	Total/NA
Cadmium	0.29		0.20	0.0031	mg/Kg	1	☼	6020/DOD	Total/NA
Calcium	5200		200	40	mg/Kg	1	☼	6020/DOD	Total/NA
Chromium	22		0.50	0.16	mg/Kg	1	☼	6020/DOD	Total/NA

Client Sample ID: LL4SS-417M-0001-SO (Continued) — Lab Sample ID: 240-1585-7

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	6.6		0.10	0.0045	mg/Kg	1	☼	6020/DOD	Total/NA
Copper	14		0.40	0.11	mg/Kg	1	☼	6020/DOD	Total/NA
Iron	17000		50	11	mg/Kg	1	☼	6020/DOD	Total/NA
Lead	20		0.30	0.071	mg/Kg	1	☼	6020/DOD	Total/NA
Magnesium	2100		100	8.9	mg/Kg	1	☼	6020/DOD	Total/NA
Manganese	480		0.50	0.16	mg/Kg	1	☼	6020/DOD	Total/NA
Nickel	47		0.50	0.087	mg/Kg	1	☼	6020/DOD	Total/NA
Potassium	730		100	3.8	mg/Kg	1	☼	6020/DOD	Total/NA
Selenium	0.84		0.50	0.021	mg/Kg	1	☼	6020/DOD	Total/NA
Silver	0.039	J	0.10	0.016	mg/Kg	1	☼	6020/DOD	Total/NA
Sodium	51	J	100	14	mg/Kg	1	☼	6020/DOD	Total/NA
Thallium	0.16	J	0.20	0.056	mg/Kg	1	☼	6020/DOD	Total/NA
Vanadium	12		0.50	0.043	mg/Kg	1	☼	6020/DOD	Total/NA
Zinc	82		4.0	1.0	mg/Kg	1	☼	6020/DOD	Total/NA
Mercury	0.024	J	0.096	0.013	mg/Kg	1	☼	7471/DOD	Total/NA
Hexavalent chromium	1.2		0.82	0.28	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: LL4SS416V0001/0002SO — Lab Sample ID: 240-1585-8

No Detections

Client Sample ID: LL4SS-417V-0001-SO — Lab Sample ID: 240-1585-9

No Detections

Client Sample ID: L12SS-306M-0001-SO — Lab Sample ID: 240-1585-10

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	89		14	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Acenaphthylene	17		14	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Anthracene	310		14	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	870		14	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	670		14	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	910	M	14	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	450		14	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	400	M	14	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Chrysene	690		14	2.2	ug/Kg	2	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	140		14	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Fluoranthene	1600		14	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Fluorene	98		14	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	410		14	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Naphthalene	91		14	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Pyrene	1300		14	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Phenanthrene	940		14	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA

Client Sample ID: L12SS-305M-0001-SO — Lab Sample ID: 240-1585-11

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	280		27	14	ug/Kg	4	☼	8270C/DoD	Total/NA
Acenaphthylene	44		27	14	ug/Kg	4	☼	8270C/DoD	Total/NA
Anthracene	750		27	14	ug/Kg	4	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	1600		27	14	ug/Kg	4	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	930		27	14	ug/Kg	4	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	2400		27	14	ug/Kg	4	☼	8270C/DoD	Total/NA

Client Sample ID: L12SS-305M-0001-SO (Continued) — Lab Sample ID: 240-1585-11

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	740		27	14	ug/Kg	4	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	300		27	14	ug/Kg	4	☼	8270C/DoD	Total/NA
Chrysene	1500		27	4.5	ug/Kg	4	☼	8270C/DoD	Total/NA
Fluoranthene	3500		27	14	ug/Kg	4	☼	8270C/DoD	Total/NA
Fluorene	310		27	14	ug/Kg	4	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	720		27	14	ug/Kg	4	☼	8270C/DoD	Total/NA
Naphthalene	370		27	14	ug/Kg	4	☼	8270C/DoD	Total/NA
Pyrene	2800		27	14	ug/Kg	4	☼	8270C/DoD	Total/NA
Phenanthrene	2600		27	14	ug/Kg	4	☼	8270C/DoD	Total/NA

Client Sample ID: L12SS-303M-0001-SO — Lab Sample ID: 240-1585-12

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	630	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Acenaphthylene	820	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Anthracene	3600	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	9700	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	7700	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	11000	D M	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	4300	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	5400	D M	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Chrysene	10000	D	140	23	ug/Kg	20	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	1400	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Fluoranthene	18000	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Fluorene	880	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	4000	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Naphthalene	230	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Pyrene	15000	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Phenanthrene	7900	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA

Client Sample ID: L12SS304M0001/0002SO — Lab Sample ID: 240-1585-13

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	3800	D J	340	170	ug/Kg	50	☼	8270C/DoD	Total/NA
Acenaphthylene	340	D	340	170	ug/Kg	50	☼	8270C/DoD	Total/NA
Anthracene	10000	D J	340	170	ug/Kg	50	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	19000	D J	340	170	ug/Kg	50	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	15000	D J	340	170	ug/Kg	50	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	19000	D M J	340	170	ug/Kg	50	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	8700	D J	340	170	ug/Kg	50	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	8500	D M J	340	170	ug/Kg	50	☼	8270C/DoD	Total/NA
Chrysene	16000	D J	340	57	ug/Kg	50	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	2600	D J	340	170	ug/Kg	50	☼	8270C/DoD	Total/NA
Fluoranthene	42000	D J	340	170	ug/Kg	50	☼	8270C/DoD	Total/NA
Fluorene	4100	D J	340	170	ug/Kg	50	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	8700	D J	340	170	ug/Kg	50	☼	8270C/DoD	Total/NA
Naphthalene	640	D M J	340	170	ug/Kg	50	☼	8270C/DoD	Total/NA
Pyrene	33000	D J	340	170	ug/Kg	50	☼	8270C/DoD	Total/NA
Phenanthrene	30000	D J	340	170	ug/Kg	50	☼	8270C/DoD	Total/NA

Client Sample ID: LL4SS416M0001/0002SO — Lab Sample ID: G1G070472001X

No Detections

Client Sample ID: LL4SS-412M-0001-SO

Date Collected: 06/26/11 11:20
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-1

Matrix: Solid
Percent Solids: 97.9

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.4	U	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:14	1
Acenaphthylene	**11**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:14	1
Anthracene	**12**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:14	1
Benzo[a]anthracene	**32**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:14	1
Benzo[a]pyrene	**43**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:14	1
Benzo[b]fluoranthene	**79**	**M**	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:14	1
Benzo[g,h,i]perylene	**36**	**M**	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:14	1
Benzo[k]fluoranthene	**46**	**M**	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:14	1
Chrysene	**59**		6.8	1.1	ug/Kg	☼	07/06/11 11:47	07/18/11 22:14	1
Dibenz(a,h)anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:14	1
Fluoranthene	**59**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:14	1
Fluorene	3.4	U	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:14	1
Indeno[1,2,3-cd]pyrene	**31**	**M**	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:14	1
Naphthalene	**10**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:14	1
Pyrene	**57**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:14	1
Phenanthrene	**30**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:14	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*51*		*45 - 105*	*07/06/11 11:47*	*07/18/11 22:14*	*1*
2-Fluorophenol (Surr)	*61*		*35 - 105*	*07/06/11 11:47*	*07/18/11 22:14*	*1*
Nitrobenzene-d5 (Surr)	*49*		*35 - 100*	*07/06/11 11:47*	*07/18/11 22:14*	*1*
Terphenyl-d14 (Surr)	*62*		*30 - 125*	*07/06/11 11:47*	*07/18/11 22:14*	*1*
2,4,6-Tribromophenol (Surr)	*39*		*35 - 125*	*07/06/11 11:47*	*07/18/11 22:14*	*1*
Phenol-d5 (Surr)	*67*		*40 - 100*	*07/06/11 11:47*	*07/18/11 22:14*	*1*

Client Sample ID: LL4SS414M0001/0002SO

Date Collected: 06/26/11 12:00
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-2

Matrix: Solid
Percent Solids: 97.5

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.4	U	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/23/11 21:44	1
Acenaphthylene	**7.9**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/23/11 21:44	1
Anthracene	**31**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/23/11 21:44	1
Benzo[a]anthracene	**57**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/23/11 21:44	1
Benzo[a]pyrene	**60**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/23/11 21:44	1
Benzo[b]fluoranthene	**140**	**M**	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/23/11 21:44	1
Benzo[g,h,i]perylene	**49**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/23/11 21:44	1
Benzo[k]fluoranthene	**56**	**M**	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/23/11 21:44	1
Chrysene	**130**		6.8	1.1	ug/Kg	☼	07/06/11 11:47	07/23/11 21:44	1
Dibenz(a,h)anthracene	**13**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/23/11 21:44	1
Fluoranthene	**77**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/23/11 21:44	1
Fluorene	3.4	U	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/23/11 21:44	1
Indeno[1,2,3-cd]pyrene	**46**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/23/11 21:44	1
Naphthalene	3.4	U	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/23/11 21:44	1
Pyrene	**140**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/23/11 21:44	1
Phenanthrene	**27**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/23/11 21:44	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*		*45 - 105*	*07/06/11 11:47*	*07/23/11 21:44*	*1*

Client Sample ID: LL4SS414M0001/0002SO

Lab Sample ID: 240-1585-2
Date Collected: 06/26/11 12:00
Matrix: Solid
Date Received: 06/27/11 16:41
Percent Solids: 97.5

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*66*		*35 - 105*	*07/06/11 11:47*	*07/23/11 21:44*	*1*
Nitrobenzene-d5 (Surr)	*53*		*35 - 100*	*07/06/11 11:47*	*07/23/11 21:44*	*1*
Terphenyl-d14 (Surr)	*77*		*30 - 125*	*07/06/11 11:47*	*07/23/11 21:44*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*35 - 125*	*07/06/11 11:47*	*07/23/11 21:44*	*1*
Phenol-d5 (Surr)	*71*		*40 - 100*	*07/06/11 11:47*	*07/23/11 21:44*	*1*

Client Sample ID: LL4SS-419M-0001-SO

Lab Sample ID: 240-1585-3
Date Collected: 06/26/11 09:15
Matrix: Solid
Date Received: 06/27/11 16:41
Percent Solids: 98.1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**6.9**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:33	1
Acenaphthylene	3.4	U	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:33	1
Anthracene	**9.5**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:33	1
Benzo[a]anthracene	**34**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:33	1
Benzo[a]pyrene	**30**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:33	1
Benzo[b]fluoranthene	**53**	**M**	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:33	1
Benzo[g,h,i]perylene	**23**	**M**	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:33	1
Benzo[k]fluoranthene	**22**	**M**	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:33	1
Chrysene	**36**		6.8	1.1	ug/Kg	☼	07/06/11 11:47	07/18/11 22:33	1
Dibenz(a,h)anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:33	1
Fluoranthene	**70**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:33	1
Fluorene	**8.3**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:33	1
Indeno[1,2,3-cd]pyrene	**22**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:33	1
Naphthalene	**15**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:33	1
Pyrene	**57**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:33	1
Phenanthrene	**52**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:33	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*51*		*45 - 105*	*07/06/11 11:47*	*07/18/11 22:33*	*1*
2-Fluorophenol (Surr)	*61*		*35 - 105*	*07/06/11 11:47*	*07/18/11 22:33*	*1*
Nitrobenzene-d5 (Surr)	*44*		*35 - 100*	*07/06/11 11:47*	*07/18/11 22:33*	*1*
Terphenyl-d14 (Surr)	*68*		*30 - 125*	*07/06/11 11:47*	*07/18/11 22:33*	*1*
2,4,6-Tribromophenol (Surr)	*58*		*35 - 125*	*07/06/11 11:47*	*07/18/11 22:33*	*1*
Phenol-d5 (Surr)	*73*		*40 - 100*	*07/06/11 11:47*	*07/18/11 22:33*	*1*

Client Sample ID: LL4SS-420M-0001-SO

Lab Sample ID: 240-1585-4
Date Collected: 06/26/11 10:30
Matrix: Solid
Date Received: 06/27/11 16:41
Percent Solids: 98.0

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**82**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:52	1
Acenaphthylene	**22**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:52	1
Anthracene	**160**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:52	1
Benzo[a]anthracene	**480**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:52	1
Benzo[a]pyrene	**380**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:52	1

Client Sample ID: LL4SS-420M-0001-SO

Date Collected: 06/26/11 10:30
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-4

Matrix: Solid
Percent Solids: 98.0

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	**510**	**M**	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:52	1
Benzo[g,h,i]perylene	**220**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:52	1
Benzo[k]fluoranthene	**260**	**M**	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:52	1
Chrysene	**430**		6.8	1.1	ug/Kg	☼	07/06/11 11:47	07/18/11 22:52	1
Dibenz(a,h)anthracene	**65**	**M**	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:52	1
Fluoranthene	**1100**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:52	1
Fluorene	**75**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:52	1
Indeno[1,2,3-cd]pyrene	**200**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:52	1
Naphthalene	**20**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:52	1
Pyrene	**860**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:52	1
Phenanthrene	**750**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 22:52	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*49*		*45 - 105*	*07/06/11 11:47*	*07/18/11 22:52*	*1*
2-Fluorophenol (Surr)	*58*		*35 - 105*	*07/06/11 11:47*	*07/18/11 22:52*	*1*
Nitrobenzene-d5 (Surr)	*44*		*35 - 100*	*07/06/11 11:47*	*07/18/11 22:52*	*1*
Terphenyl-d14 (Surr)	*63*		*30 - 125*	*07/06/11 11:47*	*07/18/11 22:52*	*1*
2,4,6-Tribromophenol (Surr)	*54*		*35 - 125*	*07/06/11 11:47*	*07/18/11 22:52*	*1*
Phenol-d5 (Surr)	*69*		*40 - 100*	*07/06/11 11:47*	*07/18/11 22:52*	*1*

Client Sample ID: LL4SB-421M-0001-SO

Date Collected: 06/26/11 10:30
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-5

Matrix: Solid
Percent Solids: 98.3

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.4	U	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:37	1
Acenaphthylene	3.4	U	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:37	1
Anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:37	1
Benzo[a]anthracene	**15**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:37	1
Benzo[a]pyrene	**13**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:37	1
Benzo[b]fluoranthene	**19**	**M**	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:37	1
Benzo[g,h,i]perylene	**8.9**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:37	1
Benzo[k]fluoranthene	**9.2**	**M**	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:37	1
Chrysene	**17**		6.8	1.1	ug/Kg	☼	07/06/11 11:47	07/18/11 20:37	1
Dibenz(a,h)anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:37	1
Fluoranthene	**33**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:37	1
Fluorene	3.4	U	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:37	1
Indeno[1,2,3-cd]pyrene	**7.9**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:37	1
Naphthalene	3.4	U	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:37	1
Pyrene	**27**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:37	1
Phenanthrene	**27**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:37	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*53*		*45 - 105*	*07/06/11 11:47*	*07/18/11 20:37*	*1*
2-Fluorophenol (Surr)	*62*		*35 - 105*	*07/06/11 11:47*	*07/18/11 20:37*	*1*
Nitrobenzene-d5 (Surr)	*52*		*35 - 100*	*07/06/11 11:47*	*07/18/11 20:37*	*1*
Terphenyl-d14 (Surr)	*63*		*30 - 125*	*07/06/11 11:47*	*07/18/11 20:37*	*1*
2,4,6-Tribromophenol (Surr)	*51*		*35 - 125*	*07/06/11 11:47*	*07/18/11 20:37*	*1*
Phenol-d5 (Surr)	*65*		*40 - 100*	*07/06/11 11:47*	*07/18/11 20:37*	*1*

Client Sample ID: LL4SS416M0001/0002SO
Date Collected: 06/26/11 14:00
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-6
Matrix: Solid
Percent Solids: 98.0

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.4	U	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Acenaphthylene	**24**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Anthracene	**46**	**J**	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Benzo[a]anthracene	**110**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Benzoic acid	340	U J	670	340	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Benzo[b]fluoranthene	**270**	**M**	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Benzo[k]fluoranthene	**120**	**M**	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Benzyl alcohol	28	U	340	21	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Bis(2-chloroethoxy)methane	28	U	100	22	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Bis(2-chloroethyl)ether	3.4	U	100	2.0	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
4-Bromophenyl phenyl ether	28	U	51	13	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Butyl benzyl phthalate	28	U	51	10	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
2,4-Dimethylphenol	82	U	150	20	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Dimethyl phthalate	28	U	51	17	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
4,6-Dinitro-2-methylphenol	82	U J	150	82	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
2,4-Dinitrophenol	82	U J	340	82	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
2,4-Dinitrotoluene	28	U	200	28	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
2,6-Dinitrotoluene	28	U	200	21	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Fluoranthene	**250**	**J**	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Fluorene	**9.7**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Hexachlorobenzene	3.4	U	6.8	2.1	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Hexachlorobutadiene	28	U	51	28	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Hexachlorocyclopentadiene	28	U	340	28	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Hexachloroethane	28	U	51	9.2	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
N-Nitrosodiphenylamine	28	U	51	21	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
N-Nitrosodi-n-propylamine	28	U	51	28	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
1,4-Dichlorobenzene	28	U	51	20	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
2-Chloronaphthalene	3.4	U	51	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
2-Chlorophenol	28	U	51	28	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
4-Chlorophenyl phenyl ether	28	U	51	13	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Chrysene	**210**	**J**	6.8	1.1	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Dibenz(a,h)anthracene	**28**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Dibenzofuran	**18**	**J**	51	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Benzo[g,h,i]perylene	**140**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Benzo[a]pyrene	**130**	**J**	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Di-n-butyl phthalate	**18**	**J**	51	15	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
1,2-Dichlorobenzene	28	U J	51	9.9	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
1,3-Dichlorobenzene	28	U J	51	11	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
3,3'-Dichlorobenzidine	82	U J	100	18	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
2,4-Dichlorophenol	28	U	150	20	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Diethyl phthalate	28	U	51	16	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Indeno[1,2,3-cd]pyrene	**100**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Isophorone	28	U	51	13	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
2-Methylnaphthalene	**45**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
2-Methylphenol	82	U	200	82	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Naphthalene	**31**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
2-Nitroaniline	28	U	200	9.3	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
3-Nitroaniline	82	U J	200	16	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
4-Nitroaniline	28	U J	200	27	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Nitrobenzene	3.4	U	100	2.2	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1

Client Sample ID: LL4SS416M0001/0002SO
Date Collected: 06/26/11 14:00
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-6
Matrix: Solid
Percent Solids: 98.0

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	28	U	51	28	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
4-Nitrophenol	82	U	340	82	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Pyrene	**230**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Pentachlorophenol	82	U J	150	82	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Phenanthrene	**110**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
1,2,4-Trichlorobenzene	28	U	51	28	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
2,4,5-Trichlorophenol	28	U	150	26	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
2,4,6-Trichlorophenol	82	U	150	82	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Phenol	28	U	51	28	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Carbazole	28	U	51	28	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
4-Chloroaniline	28	U J	150	17	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
3 & 4 Methylphenol	82	U	410	20	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Bis(2-ethylhexyl) phthalate	**130**		51	19	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
Di-n-octyl phthalate	28	U	51	28	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
4-Chloro-3-methylphenol	28	U	150	21	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1
bis (2-Chloroisopropyl) ether	28	U	100	9.7	ug/Kg	☼	07/06/11 11:47	07/18/11 20:56	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*53*		*45 - 105*	*07/06/11 11:47*	*07/18/11 20:56*	*1*
2-Fluorophenol (Surr)	*49*		*35 - 105*	*07/06/11 11:47*	*07/18/11 20:56*	*1*
Nitrobenzene-d5 (Surr)	*38*		*35 - 100*	*07/06/11 11:47*	*07/18/11 20:56*	*1*
Terphenyl-d14 (Surr)	*67*		*30 - 125*	*07/06/11 11:47*	*07/18/11 20:56*	*1*
2,4,6-Tribromophenol (Surr)	*51*		*35 - 125*	*07/06/11 11:47*	*07/18/11 20:56*	*1*
Phenol-d5 (Surr)	*62*		*40 - 100*	*07/06/11 11:47*	*07/18/11 20:56*	*1*

Method: 8081/DOD - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	14	U J	41	13	ug/Kg	☼	07/06/11 12:38	07/29/11 16:37	20
4,4'-DDE	14	U J	35	8.0	ug/Kg	☼	07/06/11 12:38	07/29/11 16:37	20
4,4'-DDT	14	U J	41	13	ug/Kg	☼	07/06/11 12:38	07/29/11 16:37	20
Aldrin	27	U	82	24	ug/Kg	☼	07/06/11 12:38	07/29/11 16:37	20
alpha-BHC	27	U J	51	15	ug/Kg	☼	07/06/11 12:38	07/29/11 16:37	20
alpha-Chlordane	27	U	61	19	ug/Kg	☼	07/06/11 12:38	07/29/11 16:37	20
beta-BHC	27	U	71	22	ug/Kg	☼	07/06/11 12:38	07/29/11 16:37	20
delta-BHC	27	U Q	82	24	ug/Kg	☼	07/06/11 12:38	07/29/11 16:37	20
Dieldrin	14	U	35	9.6	ug/Kg	☼	07/06/11 12:38	07/29/11 16:37	20
Endosulfan I	14	U J	35	11	ug/Kg	☼	07/06/11 12:38	07/29/11 16:37	20
Endosulfan II	27	U	51	17	ug/Kg	☼	07/06/11 12:38	07/29/11 16:37	20
Endosulfan sulfate	27	U	61	18	ug/Kg	☼	07/06/11 12:38	07/29/11 16:37	20
Endrin	14	U	35	10	ug/Kg	☼	07/06/11 12:38	07/29/11 16:37	20
Endrin aldehyde	27	U	61	20	ug/Kg	☼	07/06/11 12:38	07/29/11 16:37	20
Endrin ketone	14	U J	41	13	ug/Kg	☼	07/06/11 12:38	07/29/11 16:37	20
gamma-BHC (Lindane)	27	U Q	51	15	ug/Kg	☼	07/06/11 12:38	07/29/11 16:37	20
gamma-Chlordane	14	U Q	35	8.6	ug/Kg	☼	07/06/11 12:38	07/29/11 16:37	20
Heptachlor	27	U	71	22	ug/Kg	☼	07/06/11 12:38	07/29/11 16:37	20
Heptachlor epoxide	27	U	51	16	ug/Kg	☼	07/06/11 12:38	07/29/11 16:37	20
Methoxychlor	67	U	100	31	ug/Kg	☼	07/06/11 12:38	07/29/11 16:37	20
Toxaphene	410	U	1400	390	ug/Kg	☼	07/06/11 12:38	07/29/11 16:37	20

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*127*		*55 - 130*	*07/06/11 12:38*	*07/29/11 16:37*	*20*

Client Sample ID: LL4SS416M0001/0002SO
Date Collected: 06/26/11 14:00
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-6
Matrix: Solid
Percent Solids: 98.0

Method: 8081/DOD - Organochlorine Pesticides (GC) (Continued)

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*203*	*Q*	*55 - 130*	*07/06/11 12:38*	*07/29/11 16:37*	*20*
Tetrachloro-m-xylene	*1220*	*Q*	*70 - 125*	*07/06/11 12:38*	*07/29/11 16:37*	*20*
Tetrachloro-m-xylene	*116*		*70 - 125*	*07/06/11 12:38*	*07/29/11 16:37*	*20*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/06/11 12:08	07/16/11 16:00	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/06/11 12:08	07/16/11 16:00	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/06/11 12:08	07/16/11 16:00	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/06/11 12:08	07/16/11 16:00	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/06/11 12:08	07/16/11 16:00	1
Aroclor 1254	25	U	56	17	ug/Kg	☼	07/06/11 12:08	07/16/11 16:00	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/06/11 12:08	07/16/11 16:00	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*40 - 140*	*07/06/11 12:08*	*07/16/11 16:00*	*1*
Tetrachloro-m-xylene	*72*		*40 - 140*	*07/06/11 12:08*	*07/16/11 16:00*	*1*
DCB Decachlorobiphenyl	*78*		*60 - 125*	*07/06/11 12:08*	*07/16/11 16:00*	*1*
DCB Decachlorobiphenyl	*117*		*60 - 125*	*07/06/11 12:08*	*07/16/11 16:00*	*1*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - RE

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U H	66	21	ug/Kg	☼	07/20/11 12:40	07/22/11 16:54	1
Aroclor 1221	25	U H	51	16	ug/Kg	☼	07/20/11 12:40	07/22/11 16:54	1
Aroclor 1232	25	U H	46	14	ug/Kg	☼	07/20/11 12:40	07/22/11 16:54	1
Aroclor 1242	25	U H	41	13	ug/Kg	☼	07/20/11 12:40	07/22/11 16:54	1
Aroclor 1248	25	U H	56	17	ug/Kg	☼	07/20/11 12:40	07/22/11 16:54	1
Aroclor 1254	25	U H	56	17	ug/Kg	☼	07/20/11 12:40	07/22/11 16:54	1
Aroclor 1260	25	U H J	56	17	ug/Kg	☼	07/20/11 12:40	07/22/11 16:54	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*40 - 140*	*07/20/11 12:40*	*07/22/11 16:54*	*1*
Tetrachloro-m-xylene	*70*		*40 - 140*	*07/20/11 12:40*	*07/22/11 16:54*	*1*
DCB Decachlorobiphenyl	*80*		*60 - 125*	*07/20/11 12:40*	*07/22/11 16:54*	*1*
DCB Decachlorobiphenyl	*115*		*60 - 125*	*07/20/11 12:40*	*07/22/11 16:54*	*1*

Method: 8330 (Modified) - Organic Compounds by UV/HPLC

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	0.040 U		0.25	0.020	mg/kg		07/08/11 09:30	07/27/11 20:59	1

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.098 U		0.24	0.020	mg/kg		07/08/11 09:30	07/20/11 13:56	0.98
1,3-Dinitrobenzene	0.098 U		0.24	0.049	mg/kg		07/08/11 09:30	07/20/11 13:56	0.98
2,4,6-Trinitrotoluene	0.098 U		0.24	0.020	mg/kg		07/08/11 09:30	07/20/11 13:56	0.98
2,4-Dinitrotoluene	0.098 U		0.24	0.020	mg/kg		07/08/11 09:30	07/20/11 13:56	0.98
2,6-Dinitrotoluene	0.098 U		0.24	0.029	mg/kg		07/08/11 09:30	07/20/11 13:56	0.98
2-Amino-4,6-dinitrotoluene	0.098 U		0.24	0.098	mg/kg		07/08/11 09:30	07/20/11 13:56	0.98
2-Nitrotoluene	0.098 U		0.24	0.078	mg/kg		07/08/11 09:30	07/20/11 13:56	0.98
3-Nitrotoluene	0.098 U		0.24	0.069	mg/kg		07/08/11 09:30	07/20/11 13:56	0.98
4-Amino-2,6-dinitrotoluene	0.098 U		0.24	0.020	mg/kg		07/08/11 09:30	07/20/11 13:56	0.98

Client Sample ID: LL4SS416M0001/0002SO
Date Collected: 06/26/11 14:00
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-6
Matrix: Solid

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A) (Continued)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrotoluene	0.098 U		0.24	0.078	mg/kg		07/08/11 09:30	07/20/11 13:56	0.98
HMX	0.098 U		0.24	0.029	mg/kg		07/08/11 09:30	07/20/11 13:56	0.98
Nitrobenzene	0.098 U		0.24	0.049	mg/kg		07/08/11 09:30	07/20/11 13:56	0.98
Nitroglycerin	0.24 U		0.49	0.13	mg/kg		07/08/11 09:30	07/20/11 13:56	0.98
PETN	0.24 U		0.49	0.16	mg/kg		07/08/11 09:30	07/20/11 13:56	0.98
RDX	0.098 U		0.24	0.039	mg/kg		07/08/11 09:30	07/20/11 13:56	0.98
Tetryl	0.098 U		0.24	0.049	mg/kg		07/08/11 09:30	07/20/11 13:56	0.98

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*88*		*78 - 108*	*07/08/11 09:30*	*07/20/11 13:56*	*0.98*

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5900**	**J**	10	2.5	mg/Kg	☼	09/01/11 09:48	09/08/11 11:39	1
Antimony	**0.090**	**J**	0.20	0.061	mg/Kg	☼	07/15/11 12:40	08/26/11 00:23	1
Arsenic	**8.0**		0.50	0.052	mg/Kg	☼	07/15/11 12:40	08/26/11 00:23	1
Barium	**67**	**J**	0.50	0.13	mg/Kg	☼	07/15/11 12:40	08/26/11 00:23	1
Beryllium	**0.48**	**J D**	0.50	0.017	mg/Kg	☼	07/15/11 12:40	08/29/11 15:39	5
Cadmium	**0.37**	**J D**	0.99	0.015	mg/Kg	☼	07/15/11 12:40	08/29/11 15:39	5
Calcium	**4500**	**J**	200	40	mg/Kg	☼	09/01/11 09:48	09/08/11 11:39	1
Chromium	**19**		0.50	0.16	mg/Kg	☼	07/15/11 12:40	08/26/11 00:23	1
Cobalt	**6.3**	**D**	0.50	0.022	mg/Kg	☼	07/15/11 12:40	08/29/11 15:39	5
Copper	**14**		0.40	0.11	mg/Kg	☼	07/15/11 12:40	08/26/11 00:23	1
Iron	**16000**	**J**	51	11	mg/Kg	☼	09/01/11 09:48	09/08/11 11:39	1
Lead	**22**		0.30	0.070	mg/Kg	☼	07/15/11 12:40	08/26/11 00:23	1
Magnesium	**1900**		100	9.0	mg/Kg	☼	09/01/11 09:48	09/08/11 11:39	1
Manganese	**430**	**D J**	2.5	0.79	mg/Kg	☼	07/15/11 12:40	08/29/11 15:39	5
Nickel	**24**		0.50	0.086	mg/Kg	☼	07/15/11 12:40	08/26/11 00:23	1
Potassium	**710**		100	3.8	mg/Kg	☼	09/01/11 09:48	09/08/11 11:39	1
Selenium	**0.81**		0.50	0.021	mg/Kg	☼	07/15/11 12:40	08/26/11 00:23	1
Silver	0.25	U	0.50	0.079	mg/Kg	☼	07/15/11 12:40	08/29/11 15:39	5
Sodium	**38**	**J**	100	14	mg/Kg	☼	09/01/11 09:48	09/08/11 11:39	1
Thallium	**0.12**	**J**	0.20	0.056	mg/Kg	☼	07/15/11 12:40	08/26/11 00:23	1
Vanadium	**12**		0.50	0.043	mg/Kg	☼	07/15/11 12:40	08/26/11 00:23	1
Zinc	**110**	**D J**	20	5.0	mg/Kg	☼	07/15/11 12:40	08/29/11 15:39	5

Method: 7471/DOD - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**	**J**	0.094	0.013	mg/Kg	☼	07/15/11 15:30	07/18/11 17:25	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	**1.0**		0.82	0.28	mg/Kg	☼	07/18/11 14:13	07/20/11 16:08	1

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	**3.2**	**J**	5.9	0.92	mg/kg	☼	07/20/11 05:35	07/21/11 12:35	1

Client Sample ID: LL4SS-417M-0001-SO
Date Collected: 06/26/11 14:06
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-7
Matrix: Solid
Percent Solids: 97.9

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**6.6**	**J**	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Acenaphthylene	**20**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Anthracene	**33**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Benzo[a]anthracene	**87**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Benzoic acid	340	U	670	340	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Benzo[b]fluoranthene	**250**	**M**	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Benzo[k]fluoranthene	**76**	**M**	6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Benzyl alcohol	28	U	340	21	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Bis(2-chloroethoxy)methane	28	U	100	22	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Bis(2-chloroethyl)ether	3.4	U	100	2.0	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
4-Bromophenyl phenyl ether	28	U	51	13	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Butyl benzyl phthalate	28	U	51	10	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
2,4-Dimethylphenol	82	U	150	20	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Dimethyl phthalate	28	U	51	17	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
4,6-Dinitro-2-methylphenol	82	U	150	82	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
2,4-Dinitrophenol	82	U	340	82	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
2,4-Dinitrotoluene	28	U	200	28	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
2,6-Dinitrotoluene	28	U	200	21	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Fluoranthene	**140**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Fluorene	**10**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Hexachlorobenzene	3.4	U	6.8	2.1	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Hexachlorobutadiene	28	U	51	28	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Hexachlorocyclopentadiene	28	U	340	28	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Hexachloroethane	28	U	51	9.2	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
N-Nitrosodiphenylamine	28	U	51	21	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
N-Nitrosodi-n-propylamine	28	U	51	28	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
1,4-Dichlorobenzene	28	U	51	20	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
2-Chloronaphthalene	3.4	U	51	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
2-Chlorophenol	28	U	51	28	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
4-Chlorophenyl phenyl ether	28	U	51	13	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Chrysene	**140**		6.8	1.1	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Dibenz(a,h)anthracene	**27**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Dibenzofuran	**20**	**J**	51	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Benzo[g,h,i]perylene	**120**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Benzo[a]pyrene	**110**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Di-n-butyl phthalate	28	U	51	15	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
1,2-Dichlorobenzene	28	U	51	9.9	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
1,3-Dichlorobenzene	28	U	51	11	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
3,3'-Dichlorobenzidine	82	U	100	18	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
2,4-Dichlorophenol	28	U	150	20	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Diethyl phthalate	28	U	51	16	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Indeno[1,2,3-cd]pyrene	**87**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Isophorone	28	U	51	13	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
2-Methylnaphthalene	**74**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
2-Methylphenol	82	U	200	82	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Naphthalene	**56**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
2-Nitroaniline	28	U	200	9.3	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
3-Nitroaniline	82	U	200	16	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
4-Nitroaniline	28	U	200	27	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Nitrobenzene	3.4	U	100	2.2	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1

Client Sample ID: LL4SS-417M-0001-SO
Date Collected: 06/26/11 14:06
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-7
Matrix: Solid
Percent Solids: 97.9

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	28	U	51	28	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
4-Nitrophenol	82	U	340	82	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Pyrene	**140**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Pentachlorophenol	82	U	150	82	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Phenanthrene	**68**		6.8	3.4	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
1,2,4-Trichlorobenzene	28	U	51	28	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
2,4,5-Trichlorophenol	28	U	150	26	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
2,4,6-Trichlorophenol	82	U	150	82	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Phenol	28	U	51	28	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Carbazole	28	U	51	28	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
4-Chloroaniline	28	U	150	17	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
3 & 4 Methylphenol	82	U	410	20	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Bis(2-ethylhexyl) phthalate	**150**		51	19	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
Di-n-octyl phthalate	28	U	51	28	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
4-Chloro-3-methylphenol	28	U	150	21	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1
bis (2-Chloroisopropyl) ether	28	U	100	9.7	ug/Kg	☼	07/06/11 11:47	07/18/11 21:54	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*56*		*45 - 105*	*07/06/11 11:47*	*07/18/11 21:54*	*1*
2-Fluorophenol (Surr)	*71*		*35 - 105*	*07/06/11 11:47*	*07/18/11 21:54*	*1*
Nitrobenzene-d5 (Surr)	*55*		*35 - 100*	*07/06/11 11:47*	*07/18/11 21:54*	*1*
Terphenyl-d14 (Surr)	*68*		*30 - 125*	*07/06/11 11:47*	*07/18/11 21:54*	*1*
2,4,6-Tribromophenol (Surr)	*45*		*35 - 125*	*07/06/11 11:47*	*07/18/11 21:54*	*1*
Phenol-d5 (Surr)	*75*		*40 - 100*	*07/06/11 11:47*	*07/18/11 21:54*	*1*

Method: 8081/DOD - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	6.8	U	20	6.3	ug/Kg	☼	07/06/11 12:38	07/29/11 17:07	10
4,4'-DDE	6.8	U	17	4.0	ug/Kg	☼	07/06/11 12:38	07/29/11 17:07	10
4,4'-DDT	6.8	U	20	6.4	ug/Kg	☼	07/06/11 12:38	07/29/11 17:07	10
Aldrin	14	U	41	12	ug/Kg	☼	07/06/11 12:38	07/29/11 17:07	10
alpha-BHC	14	U	26	7.5	ug/Kg	☼	07/06/11 12:38	07/29/11 17:07	10
alpha-Chlordane	14	U	31	9.6	ug/Kg	☼	07/06/11 12:38	07/29/11 17:07	10
beta-BHC	14	U	36	11	ug/Kg	☼	07/06/11 12:38	07/29/11 17:07	10
delta-BHC	14	U Q	41	12	ug/Kg	☼	07/06/11 12:38	07/29/11 17:07	10
Dieldrin	6.8	U	17	4.8	ug/Kg	☼	07/06/11 12:38	07/29/11 17:07	10
Endosulfan I	6.8	U	17	5.3	ug/Kg	☼	07/06/11 12:38	07/29/11 17:07	10
Endosulfan II	14	U	26	8.4	ug/Kg	☼	07/06/11 12:38	07/29/11 17:07	10
Endosulfan sulfate	14	U	31	8.9	ug/Kg	☼	07/06/11 12:38	07/29/11 17:07	10
Endrin	6.8	U	17	5.1	ug/Kg	☼	07/06/11 12:38	07/29/11 17:07	10
Endrin aldehyde	14	U	31	10	ug/Kg	☼	07/06/11 12:38	07/29/11 17:07	10
Endrin ketone	6.8	U	20	6.4	ug/Kg	☼	07/06/11 12:38	07/29/11 17:07	10
gamma-BHC (Lindane)	14	U Q	26	7.6	ug/Kg	☼	07/06/11 12:38	07/29/11 17:07	10
gamma-Chlordane	6.8	U Q	17	4.3	ug/Kg	☼	07/06/11 12:38	07/29/11 17:07	10
Heptachlor	14	U	36	11	ug/Kg	☼	07/06/11 12:38	07/29/11 17:07	10
Heptachlor epoxide	14	U	26	8.2	ug/Kg	☼	07/06/11 12:38	07/29/11 17:07	10
Methoxychlor	34	U	51	15	ug/Kg	☼	07/06/11 12:38	07/29/11 17:07	10
Toxaphene	200	U M	680	190	ug/Kg	☼	07/06/11 12:38	07/29/11 17:07	10

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*106*		*55 - 130*	*07/06/11 12:38*	*07/29/11 17:07*	*10*

Client Sample ID: LL4SS-417M-0001-SO
Date Collected: 06/26/11 14:06
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-7
Matrix: Solid
Percent Solids: 97.9

Method: 8081/DOD - Organochlorine Pesticides (GC) (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	150	Q	55 - 130	07/06/11 12:38	07/29/11 17:07	10
Tetrachloro-m-xylene	445	Q	70 - 125	07/06/11 12:38	07/29/11 17:07	10
Tetrachloro-m-xylene	108		70 - 125	07/06/11 12:38	07/29/11 17:07	10

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/06/11 12:08	07/16/11 16:45	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/06/11 12:08	07/16/11 16:45	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/06/11 12:08	07/16/11 16:45	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/06/11 12:08	07/16/11 16:45	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/06/11 12:08	07/16/11 16:45	1
Aroclor 1254	25	U	56	17	ug/Kg	☼	07/06/11 12:08	07/16/11 16:45	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/06/11 12:08	07/16/11 16:45	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		40 - 140	07/06/11 12:08	07/16/11 16:45	1
Tetrachloro-m-xylene	70		40 - 140	07/06/11 12:08	07/16/11 16:45	1
DCB Decachlorobiphenyl	68		60 - 125	07/06/11 12:08	07/16/11 16:45	1
DCB Decachlorobiphenyl	106		60 - 125	07/06/11 12:08	07/16/11 16:45	1

Method: 8330 (Modified) - Organic Compounds by UV/HPLC

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	0.040 U		0.25	0.020	mg/kg		07/08/11 09:30	07/27/11 21:42	0.99

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.098 U		0.24	0.020	mg/kg		07/08/11 09:30	07/20/11 15:56	0.98
1,3-Dinitrobenzene	0.098 U		0.24	0.049	mg/kg		07/08/11 09:30	07/20/11 15:56	0.98
2,4,6-Trinitrotoluene	0.098 U		0.24	0.020	mg/kg		07/08/11 09:30	07/20/11 15:56	0.98
2,4-Dinitrotoluene	0.098 U		0.24	0.020	mg/kg		07/08/11 09:30	07/20/11 15:56	0.98
2,6-Dinitrotoluene	0.098 U		0.24	0.029	mg/kg		07/08/11 09:30	07/20/11 15:56	0.98
2-Amino-4,6-dinitrotoluene	0.098 U		0.24	0.098	mg/kg		07/08/11 09:30	07/20/11 15:56	0.98
2-Nitrotoluene	0.098 U		0.24	0.078	mg/kg		07/08/11 09:30	07/20/11 15:56	0.98
3-Nitrotoluene	0.098 U		0.24	0.069	mg/kg		07/08/11 09:30	07/20/11 15:56	0.98
4-Amino-2,6-dinitrotoluene	0.098 U		0.24	0.020	mg/kg		07/08/11 09:30	07/20/11 15:56	0.98
4-Nitrotoluene	0.098 U		0.24	0.078	mg/kg		07/08/11 09:30	07/20/11 15:56	0.98
HMX	0.098 U		0.24	0.029	mg/kg		07/08/11 09:30	07/20/11 15:56	0.98
Nitrobenzene	0.098 U		0.24	0.049	mg/kg		07/08/11 09:30	07/20/11 15:56	0.98
Nitroglycerin	0.24 U		0.49	0.13	mg/kg		07/08/11 09:30	07/20/11 15:56	0.98
PETN	0.24 U		0.49	0.16	mg/kg		07/08/11 09:30	07/20/11 15:56	0.98
RDX	0.098 U		0.24	0.039	mg/kg		07/08/11 09:30	07/20/11 15:56	0.98
Tetryl	0.098 U		0.24	0.049	mg/kg		07/08/11 09:30	07/20/11 15:56	0.98

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
3,4-Dinitrotoluene	91		78 - 108	07/08/11 09:30	07/20/11 15:56	0.98

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7000**		10	2.5	mg/Kg	☼	07/15/11 13:42	08/29/11 15:54	1
Antimony	**0.092**	**J**	0.20	0.062	mg/Kg	☼	07/15/11 13:42	08/26/11 00:51	1
Arsenic	**8.3**		0.50	0.052	mg/Kg	☼	07/15/11 13:42	08/26/11 00:51	1

Client Sample ID: LL4SS-417M-0001-SO

Date Collected: 06/26/11 14:06
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-7

Matrix: Solid
Percent Solids: 97.9

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	70		0.50	0.13	mg/Kg	☼	07/15/11 13:42	08/26/11 00:51	1
Beryllium	0.46		0.10	0.0035	mg/Kg	☼	07/15/11 13:42	08/29/11 15:54	1
Cadmium	0.29		0.20	0.0031	mg/Kg	☼	07/15/11 13:42	08/29/11 15:54	1
Calcium	5200		200	40	mg/Kg	☼	07/15/11 13:42	08/26/11 00:51	1
Chromium	22		0.50	0.16	mg/Kg	☼	07/15/11 13:42	08/26/11 00:51	1
Cobalt	6.6		0.10	0.0045	mg/Kg	☼	07/15/11 13:42	08/29/11 15:54	1
Copper	14		0.40	0.11	mg/Kg	☼	07/15/11 13:42	08/26/11 00:51	1
Iron	17000		50	11	mg/Kg	☼	07/15/11 13:42	08/26/11 00:51	1
Lead	20		0.30	0.071	mg/Kg	☼	07/15/11 13:42	08/26/11 00:51	1
Magnesium	2100		100	8.9	mg/Kg	☼	07/15/11 13:42	08/26/11 00:51	1
Manganese	480		0.50	0.16	mg/Kg	☼	07/15/11 13:42	08/26/11 00:51	1
Nickel	47		0.50	0.087	mg/Kg	☼	07/15/11 13:42	08/26/11 00:51	1
Potassium	730		100	3.8	mg/Kg	☼	07/15/11 13:42	08/26/11 00:51	1
Selenium	0.84		0.50	0.021	mg/Kg	☼	07/15/11 13:42	08/26/11 00:51	1
Silver	0.039	J	0.10	0.016	mg/Kg	☼	07/15/11 13:42	08/29/11 15:54	1
Sodium	51	J	100	14	mg/Kg	☼	07/15/11 13:42	08/26/11 00:51	1
Thallium	0.16	J	0.20	0.056	mg/Kg	☼	07/15/11 13:42	08/26/11 00:51	1
Vanadium	12		0.50	0.043	mg/Kg	☼	07/15/11 13:42	08/26/11 00:51	1
Zinc	82		4.0	1.0	mg/Kg	☼	07/15/11 13:42	08/29/11 15:54	1

Method: 7471/DOD - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024	J	0.096	0.013	mg/Kg	☼	07/15/11 15:30	07/18/11 17:29	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	1.2		0.82	0.28	mg/Kg	☼	07/18/11 14:13	07/20/11 16:09	1

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	1.9 U		5.1	0.79	mg/kg	☼	07/20/11 05:35	07/21/11 12:37	1

Client Sample ID: LL4SS416V0001/0002SO

Date Collected: 06/26/11 14:10
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-8

Matrix: Solid
Percent Solids: 91.3

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	8.4	U	210	18	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
1,1,2,2-Tetrachloroethane	21	U	210	7.5	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
1,1,2-Trichloroethane	21	U	210	10	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
1,1-Dichloroethane	21	U	210	14	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
1,1-Dichloroethene	21	U	210	15	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
1,2-Dichloroethane	21	U	210	8.4	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
1,2-Dichloroethene, Total	6.9	U	420	6.9	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
1,2-Dichloropropane	8.4	U	210	6.9	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
2-Butanone	84	U	840	36	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
2-Hexanone	42	U	840	17	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
4-Methyl-2-pentanone	84	U	840	41	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
Acetone	170	U	840	140	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
Benzene	21	U	210	10	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
Bromoform	21	U	210	16	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1

Client Sample ID: LL4SS416V0001/0002SO

Date Collected: 06/26/11 14:10
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-8

Matrix: Solid
Percent Solids: 91.3

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	42	U	210	24	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
Carbon disulfide	21	U	210	10	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
Carbon tetrachloride	8.4	U	210	5.4	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
Chlorobenzene	8.4	U	210	5.4	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
Chloromethane	21	U	210	12	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
cis-1,2-Dichloroethene	8.4	U	210	5.8	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
cis-1,3-Dichloropropene	8.4	U J	210	6.7	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
Dibromochloromethane	21	U	210	10	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
Bromodichloromethane	21	U	210	8.4	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
Ethylbenzene	8.4	U	210	4.6	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
Methylene Chloride	84	U	210	65	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
Styrene	8.4	U	210	4.7	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
Tetrachloroethene	21	U	210	10	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
Toluene	21	U	210	14	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
trans-1,2-Dichloroethene	21	U	210	7.8	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
trans-1,3-Dichloropropene	21	U	210	17	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
Trichloroethene	21	U	210	8.2	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
Vinyl chloride	21	U	210	15	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
Xylenes (total)	25	U	420	6.8	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
Chloroform	21	U	210	7.4	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
Bromochloromethane	21	U	210	11	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
1,2-Dibromoethane	21	U	210	8.4	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1
Chloroethane	84	U	210	51	ug/Kg	☼	07/07/11 15:43	07/08/11 16:43	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*67*	*Q*	*85 - 115*	*07/07/11 15:43*	*07/08/11 16:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*74*		*61 - 130*	*07/07/11 15:43*	*07/08/11 16:43*	*1*
4-Bromofluorobenzene (Surr)	*67*	*Q*	*85 - 120*	*07/07/11 15:43*	*07/08/11 16:43*	*1*
Dibromofluoromethane (Surr)	*64*		*59 - 138*	*07/07/11 15:43*	*07/08/11 16:43*	*1*

Client Sample ID: LL4SS-417V-0001-SO

Date Collected: 06/26/11 14:10
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-9

Matrix: Solid
Percent Solids: 89.9

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	9.4	U	230	20	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
1,1,2,2-Tetrachloroethane	23	U	230	8.3	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
1,1,2-Trichloroethane	23	U	230	11	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
1,1-Dichloroethane	23	U	230	16	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
1,1-Dichloroethene	23	U	230	17	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
1,2-Dichloroethane	23	U	230	9.4	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
1,2-Dichloroethene, Total	7.7	U	470	7.7	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
1,2-Dichloropropane	9.4	U	230	7.7	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
2-Butanone	94	U	940	40	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
2-Hexanone	47	U	940	19	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
4-Methyl-2-pentanone	94	U	940	45	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
Acetone	190	U	940	160	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
Benzene	23	U	230	11	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
Bromoform	23	U	230	18	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1

Client Sample ID: LL4SS-417V-0001-SO

Date Collected: 06/26/11 14:10
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-9

Matrix: Solid
Percent Solids: 89.9

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	47	U	230	27	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
Carbon disulfide	23	U	230	11	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
Carbon tetrachloride	9.4	U	230	6.0	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
Chlorobenzene	9.4	U	230	6.0	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
Chloromethane	23	U	230	13	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
cis-1,2-Dichloroethene	9.4	U	230	6.5	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
cis-1,3-Dichloropropene	9.4	U	230	7.4	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
Dibromochloromethane	23	U	230	11	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
Bromodichloromethane	23	U	230	9.3	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
Ethylbenzene	9.4	U	230	5.0	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
Methylene Chloride	94	U	230	72	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
Styrene	9.4	U	230	5.2	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
Tetrachloroethene	23	U	230	11	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
Toluene	23	U	230	16	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
trans-1,2-Dichloroethene	23	U	230	8.6	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
trans-1,3-Dichloropropene	23	U	230	19	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
Trichloroethene	23	U	230	9.1	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
Vinyl chloride	23	U	230	17	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
Xylenes (total)	28	U	470	7.6	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
Chloroform	23	U	230	8.2	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
Bromochloromethane	23	U	230	12	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
1,2-Dibromoethane	23	U	230	9.4	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1
Chloroethane	94	U	230	57	ug/Kg	☼	07/07/11 15:43	07/08/11 17:26	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*64*	*Q*	*85 - 115*	*07/07/11 15:43*	*07/08/11 17:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*71*		*61 - 130*	*07/07/11 15:43*	*07/08/11 17:26*	*1*
4-Bromofluorobenzene (Surr)	*64*	*Q*	*85 - 120*	*07/07/11 15:43*	*07/08/11 17:26*	*1*
Dibromofluoromethane (Surr)	*59*		*59 - 138*	*07/07/11 15:43*	*07/08/11 17:26*	*1*

Client Sample ID: L12SS-306M-0001-SO

Date Collected: 06/26/11 15:20
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-10

Matrix: Solid
Percent Solids: 97.8

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**89**		14	6.7	ug/Kg	☼	07/08/11 11:44	07/27/11 19:33	2
Acenaphthylene	**17**		14	6.7	ug/Kg	☼	07/08/11 11:44	07/27/11 19:33	2
Anthracene	**310**		14	6.7	ug/Kg	☼	07/08/11 11:44	07/27/11 19:33	2
Benzo[a]anthracene	**870**		14	6.7	ug/Kg	☼	07/08/11 11:44	07/27/11 19:33	2
Benzo[a]pyrene	**670**		14	6.7	ug/Kg	☼	07/08/11 11:44	07/27/11 19:33	2
Benzo[b]fluoranthene	**910**	**M**	14	6.7	ug/Kg	☼	07/08/11 11:44	07/27/11 19:33	2
Benzo[g,h,i]perylene	**450**		14	6.7	ug/Kg	☼	07/08/11 11:44	07/27/11 19:33	2
Benzo[k]fluoranthene	**400**	**M**	14	6.7	ug/Kg	☼	07/08/11 11:44	07/27/11 19:33	2
Chrysene	**690**		14	2.2	ug/Kg	☼	07/08/11 11:44	07/27/11 19:33	2
Dibenz(a,h)anthracene	**140**		14	6.7	ug/Kg	☼	07/08/11 11:44	07/27/11 19:33	2
Fluoranthene	**1600**		14	6.7	ug/Kg	☼	07/08/11 11:44	07/27/11 19:33	2
Fluorene	**98**		14	6.7	ug/Kg	☼	07/08/11 11:44	07/27/11 19:33	2
Indeno[1,2,3-cd]pyrene	**410**		14	6.7	ug/Kg	☼	07/08/11 11:44	07/27/11 19:33	2
Naphthalene	**91**		14	6.7	ug/Kg	☼	07/08/11 11:44	07/27/11 19:33	2

Client Sample ID: L12SS-306M-0001-SO

Date Collected: 06/26/11 15:20
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-10

Matrix: Solid
Percent Solids: 97.8

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	1300		14	6.7	ug/Kg	☼	07/08/11 11:44	07/27/11 19:33	2
Phenanthrene	940		14	6.7	ug/Kg	☼	07/08/11 11:44	07/27/11 19:33	2

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*52*		*45 - 105*	*07/08/11 11:44*	*07/27/11 19:33*	*2*
2-Fluorophenol (Surr)	*59*		*35 - 105*	*07/08/11 11:44*	*07/27/11 19:33*	*2*
Nitrobenzene-d5 (Surr)	*49*		*35 - 100*	*07/08/11 11:44*	*07/27/11 19:33*	*2*
Terphenyl-d14 (Surr)	*57*		*30 - 125*	*07/08/11 11:44*	*07/27/11 19:33*	*2*
2,4,6-Tribromophenol (Surr)	*30*	*Q*	*35 - 125*	*07/08/11 11:44*	*07/27/11 19:33*	*2*
Phenol-d5 (Surr)	*60*		*40 - 100*	*07/08/11 11:44*	*07/27/11 19:33*	*2*

Client Sample ID: L12SS-305M-0001-SO

Date Collected: 06/26/11 15:30
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-11

Matrix: Solid
Percent Solids: 97.4

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	280		27	14	ug/Kg	☼	07/08/11 11:44	07/30/11 20:50	4
Acenaphthylene	44		27	14	ug/Kg	☼	07/08/11 11:44	07/30/11 20:50	4
Anthracene	750		27	14	ug/Kg	☼	07/08/11 11:44	07/30/11 20:50	4
Benzo[a]anthracene	1600		27	14	ug/Kg	☼	07/08/11 11:44	07/30/11 20:50	4
Benzo[a]pyrene	930		27	14	ug/Kg	☼	07/08/11 11:44	07/30/11 20:50	4
Benzo[b]fluoranthene	2400		27	14	ug/Kg	☼	07/08/11 11:44	07/30/11 20:50	4
Benzo[g,h,i]perylene	740		27	14	ug/Kg	☼	07/08/11 11:44	07/30/11 20:50	4
Benzo[k]fluoranthene	300		27	14	ug/Kg	☼	07/08/11 11:44	07/30/11 20:50	4
Chrysene	1500		27	4.5	ug/Kg	☼	07/08/11 11:44	07/30/11 20:50	4
Dibenz(a,h)anthracene	14	U	27	14	ug/Kg	☼	07/08/11 11:44	07/30/11 20:50	4
Fluoranthene	3500		27	14	ug/Kg	☼	07/08/11 11:44	07/30/11 20:50	4
Fluorene	310		27	14	ug/Kg	☼	07/08/11 11:44	07/30/11 20:50	4
Indeno[1,2,3-cd]pyrene	720		27	14	ug/Kg	☼	07/08/11 11:44	07/30/11 20:50	4
Naphthalene	370		27	14	ug/Kg	☼	07/08/11 11:44	07/30/11 20:50	4
Pyrene	2800		27	14	ug/Kg	☼	07/08/11 11:44	07/30/11 20:50	4
Phenanthrene	2600		27	14	ug/Kg	☼	07/08/11 11:44	07/30/11 20:50	4

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*55*		*45 - 105*	*07/08/11 11:44*	*07/30/11 20:50*	*4*
2-Fluorophenol (Surr)	*58*		*35 - 105*	*07/08/11 11:44*	*07/30/11 20:50*	*4*
Nitrobenzene-d5 (Surr)	*51*		*35 - 100*	*07/08/11 11:44*	*07/30/11 20:50*	*4*
Terphenyl-d14 (Surr)	*68*		*30 - 125*	*07/08/11 11:44*	*07/30/11 20:50*	*4*
2,4,6-Tribromophenol (Surr)	*53*		*35 - 125*	*07/08/11 11:44*	*07/30/11 20:50*	*4*
Phenol-d5 (Surr)	*69*		*40 - 100*	*07/08/11 11:44*	*07/30/11 20:50*	*4*

Client Sample ID: L12SS-303M-0001-SO

Date Collected: 06/26/11 15:50
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-12

Matrix: Solid
Percent Solids: 96.5

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	630	D	140	68	ug/Kg	☼	07/08/11 11:44	07/27/11 18:56	20

Client Sample ID: L12SS-303M-0001-SO

Date Collected: 06/26/11 15:50
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-12

Matrix: Solid
Percent Solids: 96.5

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	820	D	140	68	ug/Kg	☼	07/08/11 11:44	07/27/11 18:56	20
Anthracene	3600	D	140	68	ug/Kg	☼	07/08/11 11:44	07/27/11 18:56	20
Benzo[a]anthracene	9700	D	140	68	ug/Kg	☼	07/08/11 11:44	07/27/11 18:56	20
Benzo[a]pyrene	7700	D	140	68	ug/Kg	☼	07/08/11 11:44	07/27/11 18:56	20
Benzo[b]fluoranthene	11000	D M	140	68	ug/Kg	☼	07/08/11 11:44	07/27/11 18:56	20
Benzo[g,h,i]perylene	4300	D	140	68	ug/Kg	☼	07/08/11 11:44	07/27/11 18:56	20
Benzo[k]fluoranthene	5400	D M	140	68	ug/Kg	☼	07/08/11 11:44	07/27/11 18:56	20
Chrysene	10000	D	140	23	ug/Kg	☼	07/08/11 11:44	07/27/11 18:56	20
Dibenz(a,h)anthracene	1400	D	140	68	ug/Kg	☼	07/08/11 11:44	07/27/11 18:56	20
Fluoranthene	18000	D	140	68	ug/Kg	☼	07/08/11 11:44	07/27/11 18:56	20
Fluorene	880	D	140	68	ug/Kg	☼	07/08/11 11:44	07/27/11 18:56	20
Indeno[1,2,3-cd]pyrene	4000	D	140	68	ug/Kg	☼	07/08/11 11:44	07/27/11 18:56	20
Naphthalene	230	D	140	68	ug/Kg	☼	07/08/11 11:44	07/27/11 18:56	20
Pyrene	15000	D	140	68	ug/Kg	☼	07/08/11 11:44	07/27/11 18:56	20
Phenanthrene	7900	D	140	68	ug/Kg	☼	07/08/11 11:44	07/27/11 18:56	20

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*58*	*M*	*45 - 105*	*07/08/11 11:44*	*07/27/11 18:56*	*20*
2-Fluorophenol (Surr)	*57*		*35 - 105*	*07/08/11 11:44*	*07/27/11 18:56*	*20*
Nitrobenzene-d5 (Surr)	*52*		*35 - 100*	*07/08/11 11:44*	*07/27/11 18:56*	*20*
Terphenyl-d14 (Surr)	*69*		*30 - 125*	*07/08/11 11:44*	*07/27/11 18:56*	*20*
2,4,6-Tribromophenol (Surr)	*40*	*M*	*35 - 125*	*07/08/11 11:44*	*07/27/11 18:56*	*20*
Phenol-d5 (Surr)	*65*	*M*	*40 - 100*	*07/08/11 11:44*	*07/27/11 18:56*	*20*

Client Sample ID: L12SS304M0001/0002SO

Date Collected: 06/26/11 16:25
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-13

Matrix: Solid
Percent Solids: 96.9

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3800	D J	340	170	ug/Kg	☼	07/06/11 11:43	07/27/11 17:59	50
Acenaphthylene	340	D	340	170	ug/Kg	☼	07/06/11 11:43	07/27/11 17:59	50
Anthracene	10000	D J	340	170	ug/Kg	☼	07/06/11 11:43	07/27/11 17:59	50
Benzo[a]anthracene	19000	D J	340	170	ug/Kg	☼	07/06/11 11:43	07/27/11 17:59	50
Benzo[a]pyrene	15000	D J	340	170	ug/Kg	☼	07/06/11 11:43	07/27/11 17:59	50
Benzo[b]fluoranthene	19000	D M J	340	170	ug/Kg	☼	07/06/11 11:43	07/27/11 17:59	50
Benzo[g,h,i]perylene	8700	D J	340	170	ug/Kg	☼	07/06/11 11:43	07/27/11 17:59	50
Benzo[k]fluoranthene	8500	D M J	340	170	ug/Kg	☼	07/06/11 11:43	07/27/11 17:59	50
Chrysene	16000	D J	340	57	ug/Kg	☼	07/06/11 11:43	07/27/11 17:59	50
Dibenz(a,h)anthracene	2600	D J	340	170	ug/Kg	☼	07/06/11 11:43	07/27/11 17:59	50
Fluoranthene	42000	D J	340	170	ug/Kg	☼	07/06/11 11:43	07/27/11 17:59	50
Fluorene	4100	D J	340	170	ug/Kg	☼	07/06/11 11:43	07/27/11 17:59	50
Indeno[1,2,3-cd]pyrene	8700	D J	340	170	ug/Kg	☼	07/06/11 11:43	07/27/11 17:59	50
Naphthalene	640	D M J	340	170	ug/Kg	☼	07/06/11 11:43	07/27/11 17:59	50
Pyrene	33000	D J	340	170	ug/Kg	☼	07/06/11 11:43	07/27/11 17:59	50
Phenanthrene	30000	D J	340	170	ug/Kg	☼	07/06/11 11:43	07/27/11 17:59	50

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*60*		*45 - 105*	*07/06/11 11:43*	*07/27/11 17:59*	*50*
2-Fluorophenol (Surr)	*59*		*35 - 105*	*07/06/11 11:43*	*07/27/11 17:59*	*50*

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1585-1

Client Sample ID: L12SS304M0001/0002SO
Date Collected: 06/26/11 16:25
Date Received: 06/27/11 16:41

Lab Sample ID: 240-1585-13
Matrix: Solid
Percent Solids: 96.9

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	74	M	35 - 100	07/06/11 11:43	07/27/11 17:59	50
Terphenyl-d14 (Surr)	82	M	30 - 125	07/06/11 11:43	07/27/11 17:59	50
2,4,6-Tribromophenol (Surr)	0	Q	35 - 125	07/06/11 11:43	07/27/11 17:59	50
Phenol-d5 (Surr)	65	M	40 - 100	07/06/11 11:43	07/27/11 17:59	50

Surrogate Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1585-1

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	BFB	DBFM
Lab Sample ID	Client Sample ID	(85-115)	(61-130)	(85-120)	(59-138)
240-1585-8	LL4SS416V0001/0002SO	67 Q	74	67 Q	64
240-1585-8 MS	LL4SS416V0001/0002SO	63 Q	68	64 Q	62
240-1585-9	LL4SS-417V-0001-SO	64 Q	71	64 Q	59
LCS 240-7596/7-A	Lab Control Sample	76 Q	80	78 Q	73
MB 240-7596/6-A	Method Blank	75 Q	82	73 Q	69

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	TPH	TBP	PHL
Lab Sample ID	Client Sample ID	(45-105)	(35-105)	(35-100)	(30-125)	(35-125)	(40-100)
240-1585-1	LL4SS-412M-0001-SO	51	61	49	62	39	67
240-1585-2	LL4SS414M0001/0002SO	59	66	53	77	66	71
240-1585-2 MS	LL4SS414M0001/0002SO	55	63	51	73	66	67
240-1585-2 MSD	LL4SS414M0001/0002SO	48	58	46	62	56	66
240-1585-3	LL4SS-419M-0001-SO	51	61	44	68	58	73
240-1585-4	LL4SS-420M-0001-SO	49	58	44	63	54	69
240-1585-5	LL4SB-421M-0001-SO	53	62	52	63	51	65
240-1585-6	LL4SS416M0001/0002SO	53	49	38	67	51	62
240-1585-6 MS	LL4SS416M0001/0002SO	51	56	46	64	54	65
240-1585-6 MSD	LL4SS416M0001/0002SO	54	65	54	61	46	70
240-1585-7	LL4SS-417M-0001-SO	56	71	55	68	45	75
240-1585-10	L12SS-306M-0001-SO	52	59	49	57	30 Q	60
240-1585-11	L12SS-305M-0001-SO	55	58	51	68	53	69
240-1585-12	L12SS-303M-0001-SO	58 M	57	52	69	40 M	65 M
240-1585-13	L12SS304M0001/0002SO	60	59	74 M	82 M	0 Q	65 M
240-1585-13 MS	L12SS304M0001/0002SO	60	54 M	63	73	0 Q	69 M
240-1585-13 MSD	L12SS304M0001/0002SO	62	64	67	78	0 Q	69
LCS 240-7314/2-A	Lab Control Sample	48	55	50	60	49	55
LCS 240-7317/22-A	Lab Control Sample	55	66	56	70	50	69
LCS 240-7706/22-A	Lab Control Sample	48	66	49	66	48	70
MB 240-7314/1-A	Method Blank	59	71	65	67	45	70
MB 240-7317/21-A	Method Blank	52	65	56	70	47	67
MB 240-7706/21-A	Method Blank	52	65	56	71	48	66

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
PHL = Phenol-d5 (Surr)

Surrogate Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1585-1

Method: 8081/DOD - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(55-130)	(55-130)	(70-125)	(70-125)
240-1585-6	LL4SS416M0001/0002SO	127	203 Q	1220 Q	116
240-1585-6 MS	LL4SS416M0001/0002SO	118 M	129 M	2650 Q	119
240-1585-6 MSD	LL4SS416M0001/0002SO	124	162 Q	770 Q	94
240-1585-7	LL4SS-417M-0001-SO	106	150 Q	445 Q	108
LCS 240-7329/11-A	Lab Control Sample	101	91	180 Q	89
MB 240-7329/10-A	Method Blank	91	89	114	80

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(40-140)	(40-140)	(60-125)	(60-125)
240-1585-6	LL4SS416M0001/0002SO	61	72	78	117
240-1585-6 - RE	LL4SS416M0001/0002SO	70	70	80	115
240-1585-6 MS	LL4SS416M0001/0002SO	62	60	62	80
240-1585-6 MSD	LL4SS416M0001/0002SO	69	69	79	140 Q
240-1585-7	LL4SS-417M-0001-SO	62	70	68	106
LCS 240-7321/12-A	Lab Control Sample	80	79	72	73
LCS 240-9136/5-A	Lab Control Sample	75	71	79	75
MB 240-7321/11-A	Method Blank	66	69	69	60
MB 240-9136/4-A	Method Blank	75	72	75	77

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Matrix: Solid **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)
		DNT
Lab Sample ID	Client Sample ID	(78-108)
240-1585-6	LL4SS416M0001/0002SO	88
240-1585-6 MS	LL4SS416M0001/0002SO	90
240-1585-6 MSD	LL4SS416M0001/0002SO	91
240-1585-7	LL4SS-417M-0001-SO	91
G1G080000062B	Method Blank	89
G1G080000062C	Lab Control Sample	90

Surrogate Legend

DNT = 3,4-Dinitrotoluene

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-7596/6-A
Matrix: Solid
Analysis Batch: 7735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7596

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	10	U	250	21	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
1,1,2,2-Tetrachloroethane	25	U	250	8.9	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
1,1,2-Trichloroethane	25	U	250	12	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
1,1-Dichloroethane	25	U	250	17	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
1,1-Dichloroethene	25	U	250	18	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
1,2-Dichloroethane	25	U	250	10	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
1,2-Dichloroethene, Total	8.2	U	500	8.2	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
1,2-Dichloropropane	10	U	250	8.2	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
2-Butanone	100	U	1000	43	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
2-Hexanone	50	U	1000	20	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
4-Methyl-2-pentanone	100	U	1000	48	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Acetone	200	U	1000	170	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Benzene	25	U	250	12	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Bromoform	25	U	250	19	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Bromomethane	50	U	250	29	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Carbon disulfide	25	U	250	12	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Carbon tetrachloride	10	U	250	6.4	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Chlorobenzene	10	U	250	6.4	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Chloromethane	25	U	250	14	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
cis-1,2-Dichloroethene	10	U	250	6.9	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
cis-1,3-Dichloropropene	10	U	250	7.9	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Dibromochloromethane	25	U	250	12	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Bromodichloromethane	25	U	250	9.9	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Ethylbenzene	10	U	250	5.4	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Methylene Chloride	100	U	250	77	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Styrene	10	U	250	5.6	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Tetrachloroethene	25	U	250	12	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Toluene	25	U	250	17	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
trans-1,2-Dichloroethene	25	U	250	9.2	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
trans-1,3-Dichloropropene	25	U	250	20	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Trichloroethene	25	U	250	9.7	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Vinyl chloride	25	U	250	18	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Xylenes (total)	30	U	500	8.1	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Chloroform	25	U	250	8.8	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Bromochloromethane	25	U	250	13	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
1,2-Dibromoethane	25	U	250	10	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Chloroethane	100	U	250	61	ug/Kg		07/07/11 15:43	07/08/11 16:21	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*75*	*Q*	*85 - 115*	*07/07/11 15:43*	*07/08/11 16:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*61 - 130*	*07/07/11 15:43*	*07/08/11 16:21*	*1*
4-Bromofluorobenzene (Surr)	*73*	*Q*	*85 - 120*	*07/07/11 15:43*	*07/08/11 16:21*	*1*
Dibromofluoromethane (Surr)	*69*		*59 - 138*	*07/07/11 15:43*	*07/08/11 16:21*	*1*

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-7596/7-A
Matrix: Solid
Analysis Batch: 7735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1-Trichloroethane	500	447		ug/Kg		89	70 - 135
1,1,2,2-Tetrachloroethane	500	505		ug/Kg		101	55 - 130
1,1,2-Trichloroethane	500	489		ug/Kg		98	60 - 125
1,1-Dichloroethane	500	477		ug/Kg		95	75 - 125
1,1-Dichloroethene	500	491		ug/Kg		98	65 - 135
1,2-Dichloroethane	500	480		ug/Kg		96	70 - 135
1,2-Dichloropropane	500	493		ug/Kg		99	70 - 120
2-Butanone	1000	1080		ug/Kg		108	30 - 160
2-Hexanone	1000	985	J	ug/Kg		99	45 - 145
4-Methyl-2-pentanone	1000	935	J	ug/Kg		94	45 - 145
Acetone	1000	955	J	ug/Kg		96	20 - 160
Benzene	500	480		ug/Kg		96	75 - 125
Bromoform	500	505		ug/Kg		101	55 - 135
Bromomethane	500	360		ug/Kg		72	30 - 160
Carbon disulfide	500	346		ug/Kg		69	45 - 160
Carbon tetrachloride	500	430		ug/Kg		86	65 - 135
Chlorobenzene	500	476		ug/Kg		95	75 - 125
Chloromethane	500	321		ug/Kg		64	50 - 130
cis-1,2-Dichloroethene	500	477		ug/Kg		95	65 - 125
cis-1,3-Dichloropropene	500	396		ug/Kg		79	70 - 125
Dibromochloromethane	500	433		ug/Kg		87	65 - 130
Bromodichloromethane	500	409		ug/Kg		82	70 - 130
Ethylbenzene	500	464		ug/Kg		93	75 - 125
Methylene Chloride	500	520		ug/Kg		104	55 - 140
m-Xylene & p-Xylene	1000	945		ug/Kg		95	80 - 125
o-Xylene	500	471		ug/Kg		94	75 - 125
Styrene	500	430		ug/Kg		86	75 - 125
Tetrachloroethene	500	477		ug/Kg		95	65 - 140
Toluene	500	476		ug/Kg		95	70 - 125
trans-1,2-Dichloroethene	500	468		ug/Kg		94	65 - 135
trans-1,3-Dichloropropene	500	387		ug/Kg		77	65 - 125
Trichloroethene	500	471		ug/Kg		94	75 - 125
Vinyl chloride	500	361		ug/Kg		72	60 - 125
Chloroform	500	483		ug/Kg		97	70 - 125
Bromochloromethane	500	493		ug/Kg		99	70 - 125
Chloroethane	500	367		ug/Kg		73	40 - 155

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*76*	*Q*	*85 - 115*
1,2-Dichloroethane-d4 (Surr)	*80*		*61 - 130*
4-Bromofluorobenzene (Surr)	*78*	*Q*	*85 - 120*
Dibromofluoromethane (Surr)	*73*		*59 - 138*

Lab Sample ID: 240-1585-8 MS
Matrix: Solid
Analysis Batch: 7735

Client Sample ID: LL4SS416V0001/0002SO
Prep Type: Total/NA
Prep Batch: 7596

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1-Trichloroethane	8.4	U	440	359		ug/Kg	☼	82	70 - 135

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-1585-8 MS
Matrix: Solid
Analysis Batch: 7735

Client Sample ID: LL4SS416V0001/0002SO
Prep Type: Total/NA
Prep Batch: 7596

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,2,2-Tetrachloroethane	21	U	440	370		ug/Kg	☼	84	55 - 130
1,1,2-Trichloroethane	21	U	440	385		ug/Kg	☼	88	60 - 125
1,1-Dichloroethane	21	U	440	379		ug/Kg	☼	86	75 - 125
1,1-Dichloroethene	21	U	440	367		ug/Kg	☼	83	65 - 135
1,2-Dichloroethane	21	U	440	379		ug/Kg	☼	86	70 - 135
1,2-Dichloropropane	8.4	U	440	378		ug/Kg	☼	86	70 - 120
2-Butanone	84	U	879	734	J	ug/Kg	☼	83	30 - 160
2-Hexanone	42	U	879	708	J	ug/Kg	☼	80	45 - 145
4-Methyl-2-pentanone	84	U	879	681	J	ug/Kg	☼	77	45 - 145
Acetone	170	U	879	712	J	ug/Kg	☼	81	20 - 160
Benzene	21	U	440	375		ug/Kg	☼	85	75 - 125
Bromoform	21	U	440	411		ug/Kg	☼	93	55 - 135
Bromomethane	42	U	440	269		ug/Kg	☼	61	30 - 160
Carbon disulfide	21	U	440	259		ug/Kg	☼	59	45 - 160
Carbon tetrachloride	8.4	U	440	325		ug/Kg	☼	74	65 - 135
Chlorobenzene	8.4	U	440	366		ug/Kg	☼	83	75 - 125
Chloromethane	21	U	440	248		ug/Kg	☼	56	50 - 130
cis-1,2-Dichloroethene	8.4	U	440	360		ug/Kg	☼	82	65 - 125
cis-1,3-Dichloropropene	8.4	U J	440	280	J	ug/Kg	☼	64	70 - 125
Dibromochloromethane	21	U	440	342		ug/Kg	☼	78	65 - 130
Bromodichloromethane	21	U	440	311		ug/Kg	☼	71	70 - 130
Ethylbenzene	8.4	U	440	363		ug/Kg	☼	82	75 - 125
Methylene Chloride	84	U	440	409		ug/Kg	☼	93	55 - 140
m-Xylene & p-Xylene	5.9		879	725		ug/Kg	☼	82	80 - 125
o-Xylene	8.4		440	362		ug/Kg	☼	82	75 - 125
Styrene	8.4	U	440	334		ug/Kg	☼	76	75 - 125
Tetrachloroethene	21	U	440	376		ug/Kg	☼	85	65 - 140
Toluene	21	U	440	374		ug/Kg	☼	85	70 - 125
trans-1,2-Dichloroethene	21	U	440	356		ug/Kg	☼	81	65 - 135
trans-1,3-Dichloropropene	21	U	440	299		ug/Kg	☼	68	65 - 125
Trichloroethene	21	U	440	361		ug/Kg	☼	82	75 - 125
Vinyl chloride	21	U	440	271		ug/Kg	☼	62	60 - 125
Chloroform	21	U	440	381		ug/Kg	☼	87	70 - 125
Bromochloromethane	21	U	440	368		ug/Kg	☼	84	70 - 125
Chloroethane	84	U	440	336		ug/Kg	☼	76	40 - 155

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*63*	*Q*	*85 - 115*
1,2-Dichloroethane-d4 (Surr)	*68*		*61 - 130*
4-Bromofluorobenzene (Surr)	*64*	*Q*	*85 - 120*
Dibromofluoromethane (Surr)	*62*		*59 - 138*

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-7314/1-A
Matrix: Solid
Analysis Batch: 10089

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7314

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:43	07/27/11 11:05	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:43	07/27/11 11:05	1
Anthracene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:43	07/27/11 11:05	1
Benzo[a]anthracene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:43	07/27/11 11:05	1
Benzo[b]fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:43	07/27/11 11:05	1
Benzo[k]fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:43	07/27/11 11:05	1
Fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:43	07/27/11 11:05	1
Fluorene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:43	07/27/11 11:05	1
Chrysene	3.3	U	6.7	1.1	ug/Kg		07/06/11 11:43	07/27/11 11:05	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:43	07/27/11 11:05	1
Benzo[g,h,i]perylene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:43	07/27/11 11:05	1
Benzo[a]pyrene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:43	07/27/11 11:05	1
Indeno[1,2,3-cd]pyrene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:43	07/27/11 11:05	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:43	07/27/11 11:05	1
Pyrene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:43	07/27/11 11:05	1
Phenanthrene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:43	07/27/11 11:05	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*		*45 - 105*	*07/06/11 11:43*	*07/27/11 11:05*	*1*
2-Fluorophenol (Surr)	*71*		*35 - 105*	*07/06/11 11:43*	*07/27/11 11:05*	*1*
Nitrobenzene-d5 (Surr)	*65*		*35 - 100*	*07/06/11 11:43*	*07/27/11 11:05*	*1*
Terphenyl-d14 (Surr)	*67*		*30 - 125*	*07/06/11 11:43*	*07/27/11 11:05*	*1*
2,4,6-Tribromophenol (Surr)	*45*		*35 - 125*	*07/06/11 11:43*	*07/27/11 11:05*	*1*
Phenol-d5 (Surr)	*70*		*40 - 100*	*07/06/11 11:43*	*07/27/11 11:05*	*1*

Lab Sample ID: LCS 240-7314/2-A
Matrix: Solid
Analysis Batch: 10089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7314

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	667	337		ug/Kg		51	45 - 110
Acenaphthylene	667	342		ug/Kg		51	45 - 105
Anthracene	667	369		ug/Kg		55	55 - 105
Benzo[a]anthracene	667	354		ug/Kg		53	50 - 110
Benzo[b]fluoranthene	667	327		ug/Kg		49	45 - 115
Benzo[k]fluoranthene	667	424		ug/Kg		64	45 - 125
Fluoranthene	667	385		ug/Kg		58	55 - 115
Fluorene	667	363		ug/Kg		54	50 - 110
Chrysene	667	367		ug/Kg		55	55 - 110
Dibenz(a,h)anthracene	667	411		ug/Kg		62	40 - 125
Benzo[g,h,i]perylene	667	401		ug/Kg		60	40 - 125
Benzo[a]pyrene	667	334		ug/Kg		50	50 - 110
Indeno[1,2,3-cd]pyrene	667	410		ug/Kg		61	40 - 120
Naphthalene	667	325		ug/Kg		49	40 - 105
Pyrene	667	361		ug/Kg		54	45 - 125
Phenanthrene	667	357		ug/Kg		54	50 - 110

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*48*		*45 - 105*

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-7314/2-A
Matrix: Solid
Analysis Batch: 10089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7314

Surrogate	LCS % Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	55		35 - 105
Nitrobenzene-d5 (Surr)	50		35 - 100
Terphenyl-d14 (Surr)	60		30 - 125
2,4,6-Tribromophenol (Surr)	49		35 - 125
Phenol-d5 (Surr)	55		40 - 100

Lab Sample ID: 240-1585-13 MS
Matrix: Solid
Analysis Batch: 10089

Client Sample ID: L12SS304M0001/0002SO
Prep Type: Total/NA
Prep Batch: 7314

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	3800	D J	685	3770	D 4	ug/Kg	☼	-5	45 - 110
Acenaphthylene	340	D	685	703	D	ug/Kg	☼	53	45 - 105
Anthracene	10000	D J	685	10200	D 4	ug/Kg	☼	20	55 - 105
Benzo[a]anthracene	19000	D J	685	19400	D 4	ug/Kg	☼	9	50 - 110
Benzo[a]pyrene	15000	D J	685	15200	D 4	ug/Kg	☼	24	50 - 110
Benzo[b]fluoranthene	19000	D M J	685	19100	D M 4	ug/Kg	☼	-16	45 - 115
Benzo[g,h,i]perylene	8700	D J	685	8530	D 4	ug/Kg	☼	-30	40 - 125
Benzo[k]fluoranthene	8500	D M J	685	8590	D M 4	ug/Kg	☼	20	45 - 125
Chrysene	16000	D J	685	16000	D 4	ug/Kg	☼	-31	55 - 110
Dibenz(a,h)anthracene	2600	D J	685	2710	D J	ug/Kg	☼	18	40 - 125
Fluoranthene	42000	D J	685	41400	D 4	ug/Kg	☼	-52	55 - 115
Fluorene	4100	D J	685	4590	D 4	ug/Kg	☼	75	50 - 110
Indeno[1,2,3-cd]pyrene	8700	D J	685	8560	D 4	ug/Kg	☼	-15	40 - 120
Naphthalene	640	D M J	685	984	D	ug/Kg	☼	50	40 - 105
Pyrene	33000	D J	685	32500	D 4	ug/Kg	☼	-62	45 - 125
Phenanthrene	30000	D J	685	30600	D 4	ug/Kg	☼	59	50 - 110

Surrogate	MS % Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	60		45 - 105
2-Fluorophenol (Surr)	54	M	35 - 105
Nitrobenzene-d5 (Surr)	63		35 - 100
Terphenyl-d14 (Surr)	73		30 - 125
2,4,6-Tribromophenol (Surr)	0	Q	35 - 125
Phenol-d5 (Surr)	69	M	40 - 100

Lab Sample ID: 240-1585-13 MSD
Matrix: Solid
Analysis Batch: 10089

Client Sample ID: L12SS304M0001/0002SO
Prep Type: Total/NA
Prep Batch: 7314

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	3800	D J	685	4930	D 4	ug/Kg	☼	165	45 - 110	27	30
Acenaphthylene	340	D	685	843	D	ug/Kg	☼	74	45 - 105	18	30
Anthracene	10000	D J	685	11900	D 4	ug/Kg	☼	265	55 - 105	15	30
Benzo[a]anthracene	19000	D J	685	21000	D 4	ug/Kg	☼	241	50 - 110	8	30
Benzo[a]pyrene	15000	D J	685	16000	D 4	ug/Kg	☼	146	50 - 110	5	30
Benzo[b]fluoranthene	19000	D M J	685	20100	D M 4	ug/Kg	☼	131	45 - 115	5	30
Benzo[g,h,i]perylene	8700	D J	685	9220	D 4	ug/Kg	☼	70	40 - 125	8	30
Benzo[k]fluoranthene	8500	D M J	685	9660	D M 4	ug/Kg	☼	175	45 - 125	12	30

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-1585-13 MSD
Matrix: Solid
Analysis Batch: 10089

Client Sample ID: L12SS304M0001/0002SO
Prep Type: Total/NA
Prep Batch: 7314

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chrysene	16000	D J	685	18600	D 4	ug/Kg	☼	346	55 - 110	15	30
Dibenz(a,h)anthracene	2600	D J	685	3140	D	ug/Kg	☼	82	40 - 125	15	30
Fluoranthene	42000	D J	685	46900	D 4	ug/Kg	☼	752	55 - 115	12	30
Fluorene	4100	D J	685	5350	D 4	ug/Kg	☼	185	50 - 110	15	30
Indeno[1,2,3-cd]pyrene	8700	D J	685	8530	D 4	ug/Kg	☼	-20	40 - 120	0	30
Naphthalene	640	D M J	685	1370	D J	ug/Kg	☼	106	40 - 105	33	30
Pyrene	33000	D J	685	36300	D 4	ug/Kg	☼	502	45 - 125	11	30
Phenanthrene	30000	D J	685	34600	D 4	ug/Kg	☼	641	50 - 110	12	30

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*62*		*45 - 105*
2-Fluorophenol (Surr)	*64*		*35 - 105*
Nitrobenzene-d5 (Surr)	*67*		*35 - 100*
Terphenyl-d14 (Surr)	*78*		*30 - 125*
2,4,6-Tribromophenol (Surr)	*0*	*Q*	*35 - 125*
Phenol-d5 (Surr)	*69*		*40 - 100*

Lab Sample ID: MB 240-7317/21-A
Matrix: Solid
Analysis Batch: 8303

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7317

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Anthracene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Benzo[a]anthracene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Benzoic acid	330	U	660	330	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Benzo[b]fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Benzo[k]fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Benzyl alcohol	27	U	330	21	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Bis(2-chloroethoxy)methane	27	U	100	22	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Bis(2-chloroethyl)ether	3.3	U	100	2.0	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
4-Bromophenyl phenyl ether	27	U	50	13	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Butyl benzyl phthalate	27	U	50	10	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
2,4-Dimethylphenol	80	U	150	20	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Dimethyl phthalate	27	U	50	17	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
4,6-Dinitro-2-methylphenol	80	U	150	80	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
2,4-Dinitrophenol	80	U	330	80	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
2,4-Dinitrotoluene	27	U	200	27	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
2,6-Dinitrotoluene	27	U	200	21	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Fluorene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Hexachlorobenzene	3.3	U	6.7	2.1	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Hexachlorobutadiene	27	U	50	27	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Hexachlorocyclopentadiene	27	U	330	27	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Hexachloroethane	27	U	50	9.0	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
N-Nitrosodiphenylamine	27	U	50	21	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
N-Nitrosodi-n-propylamine	27	U	50	27	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
1,4-Dichlorobenzene	27	U	50	20	ug/Kg		07/06/11 11:47	07/12/11 18:25	1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-7317/21-A
Matrix: Solid
Analysis Batch: 8303

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7317

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	3.3	U	50	3.3	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
2-Chlorophenol	27	U	50	27	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
4-Chlorophenyl phenyl ether	27	U	50	13	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Chrysene	3.3	U	6.7	1.1	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Dibenzofuran	3.3	U	50	3.3	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Benzo[g,h,i]perylene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Benzo[a]pyrene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Di-n-butyl phthalate	27	U	50	15	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
1,2-Dichlorobenzene	27	U	50	9.7	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
1,3-Dichlorobenzene	27	U	50	11	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
3,3'-Dichlorobenzidine	80	U	100	18	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
2,4-Dichlorophenol	27	U	150	20	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Diethyl phthalate	27	U	50	16	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Indeno[1,2,3-cd]pyrene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Isophorone	27	U	50	13	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
2-Methylnaphthalene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
2-Methylphenol	80	U	200	80	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
2-Nitroaniline	27	U	200	9.1	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
3-Nitroaniline	80	U	200	16	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
4-Nitroaniline	27	U	200	26	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Nitrobenzene	3.3	U	100	2.2	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
2-Nitrophenol	27	U	50	27	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
4-Nitrophenol	80	U	330	80	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Pyrene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Pentachlorophenol	80	U	150	80	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Phenanthrene	3.3	U	6.7	3.3	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
1,2,4-Trichlorobenzene	27	U	50	27	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
2,4,5-Trichlorophenol	27	U	150	25	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
2,4,6-Trichlorophenol	80	U	150	80	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Phenol	27	U	50	27	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Carbazole	27	U	50	27	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
4-Chloroaniline	27	U	150	17	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
3 & 4 Methylphenol	80	U	400	20	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Bis(2-ethylhexyl) phthalate	27	U	50	19	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
Di-n-octyl phthalate	27	U	50	27	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
4-Chloro-3-methylphenol	27	U	150	21	ug/Kg		07/06/11 11:47	07/12/11 18:25	1
bis (2-Chloroisopropyl) ether	27	U	100	9.5	ug/Kg		07/06/11 11:47	07/12/11 18:25	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*52*		*45 - 105*	*07/06/11 11:47*	*07/12/11 18:25*	*1*
2-Fluorophenol (Surr)	*65*		*35 - 105*	*07/06/11 11:47*	*07/12/11 18:25*	*1*
Nitrobenzene-d5 (Surr)	*56*		*35 - 100*	*07/06/11 11:47*	*07/12/11 18:25*	*1*
Terphenyl-d14 (Surr)	*70*		*30 - 125*	*07/06/11 11:47*	*07/12/11 18:25*	*1*
2,4,6-Tribromophenol (Surr)	*47*		*35 - 125*	*07/06/11 11:47*	*07/12/11 18:25*	*1*
Phenol-d5 (Surr)	*67*		*40 - 100*	*07/06/11 11:47*	*07/12/11 18:25*	*1*

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-7317/22-A
Matrix: Solid
Analysis Batch: 8303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7317

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	667	371		ug/Kg		56	45 - 110
Acenaphthylene	667	384		ug/Kg		58	45 - 105
Anthracene	667	412		ug/Kg		62	55 - 105
Benzo[a]anthracene	667	395		ug/Kg		59	50 - 110
Benzoic acid	667	330	U	ug/Kg		33	0 - 110
Benzo[b]fluoranthene	667	383		ug/Kg		57	45 - 115
Benzo[k]fluoranthene	667	427		ug/Kg		64	45 - 125
Benzyl alcohol	667	657		ug/Kg		98	20 - 125
Bis(2-chloroethoxy)methane	667	406		ug/Kg		61	45 - 110
Bis(2-chloroethyl)ether	667	403		ug/Kg		60	40 - 105
4-Bromophenyl phenyl ether	667	393		ug/Kg		59	45 - 115
Butyl benzyl phthalate	667	413		ug/Kg		62	50 - 125
2,4-Dimethylphenol	667	393		ug/Kg		59	30 - 105
Dimethyl phthalate	667	411		ug/Kg		62	50 - 110
4,6-Dinitro-2-methylphenol	667	407		ug/Kg		61	30 - 135
2,4-Dinitrophenol	667	348		ug/Kg		52	15 - 130
2,4-Dinitrotoluene	667	453		ug/Kg		68	50 - 115
2,6-Dinitrotoluene	667	439		ug/Kg		66	50 - 110
Fluoranthene	667	423		ug/Kg		63	55 - 115
Fluorene	667	388		ug/Kg		58	50 - 110
Hexachlorobenzene	667	403		ug/Kg		60	45 - 120
Hexachlorobutadiene	667	349		ug/Kg		52	40 - 115
Hexachloroethane	667	360		ug/Kg		54	35 - 110
N-Nitrosodiphenylamine	667	400		ug/Kg		60	50 - 115
N-Nitrosodi-n-propylamine	667	409		ug/Kg		61	40 - 115
1,4-Dichlorobenzene	667	351		ug/Kg		53	35 - 105
2-Chloronaphthalene	667	376		ug/Kg		56	45 - 105
2-Chlorophenol	667	417		ug/Kg		62	45 - 105
4-Chlorophenyl phenyl ether	667	407		ug/Kg		61	45 - 110
Chrysene	667	410		ug/Kg		61	55 - 110
Dibenz(a,h)anthracene	667	448		ug/Kg		67	40 - 125
Dibenzofuran	667	387		ug/Kg		58	50 - 105
Benzo[g,h,i]perylene	667	438		ug/Kg		66	40 - 125
Benzo[a]pyrene	667	369		ug/Kg		55	50 - 110
Di-n-butyl phthalate	667	439		ug/Kg		66	55 - 110
1,2-Dichlorobenzene	667	377		ug/Kg		56	45 - 110
1,3-Dichlorobenzene	667	358		ug/Kg		54	40 - 100
3,3'-Dichlorobenzidine	667	278		ug/Kg		42	10 - 130
2,4-Dichlorophenol	667	412		ug/Kg		62	45 - 110
Diethyl phthalate	667	419		ug/Kg		63	50 - 115
Indeno[1,2,3-cd]pyrene	667	433		ug/Kg		65	40 - 120
Isophorone	667	387		ug/Kg		58	45 - 110
2-Methylnaphthalene	667	461		ug/Kg		69	45 - 105
2-Methylphenol	667	460		ug/Kg		69	40 - 105
Naphthalene	667	370		ug/Kg		55	40 - 105
2-Nitroaniline	667	425		ug/Kg		64	45 - 120
3-Nitroaniline	667	385		ug/Kg		58	25 - 110
4-Nitroaniline	667	402		ug/Kg		60	35 - 115
Nitrobenzene	667	384		ug/Kg		58	40 - 115

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-7317/22-A
Matrix: Solid
Analysis Batch: 8303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7317

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
2-Nitrophenol			667	395		ug/Kg		59	40 - 110		
4-Nitrophenol			667	352		ug/Kg		53	15 - 140		
Pyrene			667	402		ug/Kg		60	45 - 125		
Pentachlorophenol			667	325		ug/Kg		49	25 - 120		
Phenanthrene			667	400		ug/Kg		60	50 - 110		
1,2,4-Trichlorobenzene			667	355		ug/Kg		53	45 - 110		
2,4,5-Trichlorophenol			667	401		ug/Kg		60	50 - 110		
2,4,6-Trichlorophenol			667	355		ug/Kg		53	45 - 110		
Phenol			667	439		ug/Kg		66	40 - 100		
Carbazole			667	406		ug/Kg		61	45 - 115		
4-Chloroaniline			667	343		ug/Kg		51	10 - 110		
3 & 4 Methylphenol			1330	867		ug/Kg		65	40 - 105		
Bis(2-ethylhexyl) phthalate			667	443		ug/Kg		66	45 - 125		
Di-n-octyl phthalate			667	442		ug/Kg		66	40 - 130		
4-Chloro-3-methylphenol			667	438		ug/Kg		66	45 - 115		
bis (2-Chloroisopropyl) ether			667	405		ug/Kg		61	20 - 115		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*55*		*45 - 105*
2-Fluorophenol (Surr)	*66*		*35 - 105*
Nitrobenzene-d5 (Surr)	*56*		*35 - 100*
Terphenyl-d14 (Surr)	*70*		*30 - 125*
2,4,6-Tribromophenol (Surr)	*50*		*35 - 125*
Phenol-d5 (Surr)	*69*		*40 - 100*

Lab Sample ID: 240-1585-2 MS
Matrix: Solid
Analysis Batch: 9528

Client Sample ID: LL4SS414M0001/0002SO
Prep Type: Total/NA
Prep Batch: 7317

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits		
Acenaphthene	3.4	U	683	408		ug/Kg	☼	60	45 - 110		
Acenaphthylene	7.9		683	415		ug/Kg	☼	60	45 - 105		
Anthracene	31		683	448		ug/Kg	☼	61	55 - 105		
Benzo[a]anthracene	57		683	504		ug/Kg	☼	65	50 - 110		
Benzo[a]pyrene	60		683	450		ug/Kg	☼	57	50 - 110		
Benzo[b]fluoranthene	140	M	683	558		ug/Kg	☼	61	45 - 115		
Benzo[g,h,i]perylene	49		683	498		ug/Kg	☼	66	40 - 125		
Benzo[k]fluoranthene	56	M	683	538		ug/Kg	☼	70	45 - 125		
Chrysene	130		683	557		ug/Kg	☼	62	55 - 110		
Dibenz(a,h)anthracene	13		683	479		ug/Kg	☼	68	40 - 125		
Fluoranthene	77		683	520		ug/Kg	☼	65	55 - 115		
Fluorene	3.4	U	683	451		ug/Kg	☼	66	50 - 110		
Indeno[1,2,3-cd]pyrene	46		683	495		ug/Kg	☼	66	40 - 120		
Naphthalene	3.4	U	683	360		ug/Kg	☼	53	40 - 105		
Pyrene	140		683	592		ug/Kg	☼	66	45 - 125		
Phenanthrene	27		683	441		ug/Kg	☼	61	50 - 110		

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*55*		*45 - 105*

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-1585-2 MS
Matrix: Solid
Analysis Batch: 9528

Client Sample ID: LL4SS414M0001/0002SO
Prep Type: Total/NA
Prep Batch: 7317

Surrogate	MS % Recovery	MS Qualifier	Limits
2-Fluorophenol (Surr)	63		35 - 105
Nitrobenzene-d5 (Surr)	51		35 - 100
Terphenyl-d14 (Surr)	73		30 - 125
2,4,6-Tribromophenol (Surr)	66		35 - 125
Phenol-d5 (Surr)	67		40 - 100

Lab Sample ID: 240-1585-2 MSD
Matrix: Solid
Analysis Batch: 10089

Client Sample ID: LL4SS414M0001/0002SO
Prep Type: Total/NA
Prep Batch: 7317

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	3.4	U	681	366		ug/Kg	☼	54	45 - 110	11	30
Acenaphthylene	7.9		681	369		ug/Kg	☼	53	45 - 105	12	30
Anthracene	31		681	372	J	ug/Kg	☼	50	55 - 105	19	30
Benzo[a]anthracene	57		681	423		ug/Kg	☼	54	50 - 110	17	30
Benzo[a]pyrene	60		681	391	J	ug/Kg	☼	49	50 - 110	14	30
Benzo[b]fluoranthene	140	M	681	518		ug/Kg	☼	55	45 - 115	7	30
Benzo[g,h,i]perylene	49		681	435		ug/Kg	☼	57	40 - 125	13	30
Benzo[k]fluoranthene	56	M	681	456		ug/Kg	☼	59	45 - 125	16	30
Chrysene	130		681	474	J	ug/Kg	☼	50	55 - 110	16	30
Dibenz(a,h)anthracene	13		681	410		ug/Kg	☼	58	40 - 125	16	30
Fluoranthene	77		681	434	J	ug/Kg	☼	52	55 - 115	18	30
Fluorene	3.4	U	681	390		ug/Kg	☼	57	50 - 110	15	30
Indeno[1,2,3-cd]pyrene	46		681	431		ug/Kg	☼	56	40 - 120	14	30
Naphthalene	3.4	U	681	335		ug/Kg	☼	49	40 - 105	7	30
Pyrene	140		681	498		ug/Kg	☼	53	45 - 125	17	30
Phenanthrene	27		681	383		ug/Kg	☼	52	50 - 110	14	30

Surrogate	MSD % Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	48		45 - 105
2-Fluorophenol (Surr)	58		35 - 105
Nitrobenzene-d5 (Surr)	46		35 - 100
Terphenyl-d14 (Surr)	62		30 - 125
2,4,6-Tribromophenol (Surr)	56		35 - 125
Phenol-d5 (Surr)	66		40 - 100

Lab Sample ID: 240-1585-6 MS
Matrix: Solid
Analysis Batch: 11019

Client Sample ID: LL4SS416M0001/0002SO
Prep Type: Total/NA
Prep Batch: 7317

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	3.4	U	678	375		ug/Kg	☼	55	45 - 110
Acenaphthylene	24		678	397		ug/Kg	☼	55	45 - 105
Anthracene	46	J	678	417		ug/Kg	☼	55	55 - 105
Benzo[a]anthracene	110		678	466		ug/Kg	☼	52	50 - 110
Benzoic acid	340	U J	678	445	J	ug/Kg	☼	66	0 - 110
Benzo[b]fluoranthene	270	M	678	719		ug/Kg	☼	66	45 - 115
Benzo[k]fluoranthene	120	M	678	489		ug/Kg	☼	54	45 - 125
Benzyl alcohol	28	U	678	445		ug/Kg	☼	66	20 - 125

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-1585-6 MS
Matrix: Solid
Analysis Batch: 11019

Client Sample ID: LL4SS416M0001/0002SO
Prep Type: Total/NA
Prep Batch: 7317

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Bis(2-chloroethoxy)methane	28	U	678	363		ug/Kg	☼	54	45 - 110
Bis(2-chloroethyl)ether	3.4	U	678	355		ug/Kg	☼	52	40 - 105
4-Bromophenyl phenyl ether	28	U	678	395		ug/Kg	☼	58	45 - 115
Butyl benzyl phthalate	28	U	678	426		ug/Kg	☼	63	50 - 125
2,4-Dimethylphenol	82	U	678	346		ug/Kg	☼	51	30 - 105
Dimethyl phthalate	28	U	678	405		ug/Kg	☼	60	50 - 110
4,6-Dinitro-2-methylphenol	82	U J	678	337		ug/Kg	☼	50	30 - 135
2,4-Dinitrophenol	82	U J	678	284	J	ug/Kg	☼	42	15 - 130
2,4-Dinitrotoluene	28	U	678	424		ug/Kg	☼	63	50 - 115
2,6-Dinitrotoluene	28	U	678	436		ug/Kg	☼	64	50 - 110
Fluoranthene	250	J	678	561	J	ug/Kg	☼	46	55 - 115
Fluorene	9.7		678	393		ug/Kg	☼	56	50 - 110
Hexachlorobenzene	3.4	U	678	386		ug/Kg	☼	57	45 - 120
Hexachlorobutadiene	28	U	678	280		ug/Kg	☼	41	40 - 115
Hexachloroethane	28	U	678	262		ug/Kg	☼	39	35 - 110
N-Nitrosodiphenylamine	28	U	678	390		ug/Kg	☼	58	50 - 115
N-Nitrosodi-n-propylamine	28	U	678	384		ug/Kg	☼	57	40 - 115
1,4-Dichlorobenzene	28	U	678	275		ug/Kg	☼	41	35 - 105
2-Chloronaphthalene	3.4	U	678	368		ug/Kg	☼	54	45 - 105
2-Chlorophenol	28	U	678	392		ug/Kg	☼	58	45 - 105
4-Chlorophenyl phenyl ether	28	U	678	402		ug/Kg	☼	59	45 - 110
Chrysene	210	J	678	550	J	ug/Kg	☼	51	55 - 110
Dibenz(a,h)anthracene	28		678	462		ug/Kg	☼	64	40 - 125
Dibenzofuran	18	J	678	416		ug/Kg	☼	59	50 - 105
Benzo[g,h,i]perylene	140		678	565		ug/Kg	☼	63	40 - 125
Benzo[a]pyrene	130	J	678	469		ug/Kg	☼	50	50 - 110
Di-n-butyl phthalate	18	J	678	413		ug/Kg	☼	58	55 - 110
1,2-Dichlorobenzene	28	U J	678	292	J	ug/Kg	☼	43	45 - 95
1,3-Dichlorobenzene	28	U J	678	257	J	ug/Kg	☼	38	40 - 100
3,3'-Dichlorobenzidine	82	U J	678	81	U J	ug/Kg	☼	0	10 - 130
2,4-Dichlorophenol	28	U	678	400		ug/Kg	☼	59	45 - 110
Diethyl phthalate	28	U	678	401		ug/Kg	☼	59	50 - 115
Indeno[1,2,3-cd]pyrene	100		678	529		ug/Kg	☼	63	40 - 120
Isophorone	28	U	678	345		ug/Kg	☼	51	45 - 110
2-Methylnaphthalene	45		678	476		ug/Kg	☼	64	45 - 105
2-Methylphenol	82	U	678	434		ug/Kg	☼	64	40 - 105
Naphthalene	31		678	369		ug/Kg	☼	50	40 - 105
2-Nitroaniline	28	U	678	429		ug/Kg	☼	63	45 - 120
3-Nitroaniline	82	U J	678	136	J	ug/Kg	☼	20	25 - 110
4-Nitroaniline	28	U J	678	27	U J	ug/Kg	☼	0	35 - 115
Nitrobenzene	3.4	U	678	330		ug/Kg	☼	49	40 - 115
2-Nitrophenol	28	U	678	342		ug/Kg	☼	51	40 - 110
4-Nitrophenol	82	U	678	416		ug/Kg	☼	61	15 - 140
Pyrene	230		678	538		ug/Kg	☼	46	45 - 125
Pentachlorophenol	82	U J	678	273		ug/Kg	☼	40	25 - 120
Phenanthrene	110		678	462		ug/Kg	☼	51	50 - 110
1,2,4-Trichlorobenzene	28	U	678	303		ug/Kg	☼	45	45 - 110
2,4,5-Trichlorophenol	28	U	678	405		ug/Kg	☼	60	50 - 110
2,4,6-Trichlorophenol	82	U	678	384		ug/Kg	☼	57	45 - 110
Phenol	28	U	678	464		ug/Kg	☼	68	40 - 100

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-1585-6 MS
Matrix: Solid
Analysis Batch: 11019

Client Sample ID: LL4SS416M0001/0002SO
Prep Type: Total/NA
Prep Batch: 7317

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Carbazole	28	U	678	396		ug/Kg	☼	58	45 - 115
4-Chloroaniline	28	U J	678	27	U J	ug/Kg	☼	0	10 - 95
3 & 4 Methylphenol	82	U	1360	881		ug/Kg	☼	65	40 - 105
Bis(2-ethylhexyl) phthalate	130		678	511		ug/Kg	☼	57	45 - 125
Di-n-octyl phthalate	28	U	678	435		ug/Kg	☼	64	40 - 130
4-Chloro-3-methylphenol	28	U	678	439		ug/Kg	☼	65	45 - 115
bis (2-Chloroisopropyl) ether	28	U	678	372		ug/Kg	☼	55	20 - 115

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*51*		*45 - 105*
2-Fluorophenol (Surr)	*56*		*35 - 105*
Nitrobenzene-d5 (Surr)	*46*		*35 - 100*
Terphenyl-d14 (Surr)	*64*		*30 - 125*
2,4,6-Tribromophenol (Surr)	*54*		*35 - 125*
Phenol-d5 (Surr)	*65*		*40 - 100*

Lab Sample ID: 240-1585-6 MSD
Matrix: Solid
Analysis Batch: 9080

Client Sample ID: LL4SS416M0001/0002SO
Prep Type: Total/NA
Prep Batch: 7317

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	3.4	U	680	377		ug/Kg	☼	55	45 - 110	0	30
Acenaphthylene	24		680	394		ug/Kg	☼	54	45 - 105	1	30
Anthracene	46	J	680	400	J	ug/Kg	☼	52	55 - 105	4	30
Benzo[a]anthracene	110		680	490		ug/Kg	☼	56	50 - 110	5	30
Benzoic acid	340	U J	680	340	U J	ug/Kg	☼	0	0 - 110	200	30
Benzo[b]fluoranthene	270	M	680	594		ug/Kg	☼	47	45 - 115	19	30
Benzo[k]fluoranthene	120	M	680	534		ug/Kg	☼	61	45 - 125	9	30
Benzyl alcohol	28	U	680	459		ug/Kg	☼	68	20 - 125	3	30
Bis(2-chloroethoxy)methane	28	U	680	426		ug/Kg	☼	63	45 - 110	16	30
Bis(2-chloroethyl)ether	3.4	U	680	468		ug/Kg	☼	69	40 - 105	27	30
4-Bromophenyl phenyl ether	28	U	680	369		ug/Kg	☼	54	45 - 115	7	30
Butyl benzyl phthalate	28	U	680	411		ug/Kg	☼	61	50 - 125	3	30
2,4-Dimethylphenol	82	U	680	334		ug/Kg	☼	49	30 - 105	4	30
Dimethyl phthalate	28	U	680	390		ug/Kg	☼	57	50 - 110	4	30
4,6-Dinitro-2-methylphenol	82	U J	680	141	J	ug/Kg	☼	21	30 - 135	82	30
2,4-Dinitrophenol	82	U J	680	95.9	J	ug/Kg	☼	14	15 - 130	99	30
2,4-Dinitrotoluene	28	U	680	378		ug/Kg	☼	56	50 - 115	12	30
2,6-Dinitrotoluene	28	U	680	400		ug/Kg	☼	59	50 - 110	9	30
Fluoranthene	250	J	680	577	J	ug/Kg	☼	49	55 - 115	3	30
Fluorene	9.7		680	387		ug/Kg	☼	55	50 - 110	1	30
Hexachlorobenzene	3.4	U	680	363		ug/Kg	☼	53	45 - 120	6	30
Hexachlorobutadiene	28	U	680	334		ug/Kg	☼	49	40 - 115	18	30
Hexachloroethane	28	U	680	299		ug/Kg	☼	44	35 - 110	13	30
N-Nitrosodiphenylamine	28	U	680	372		ug/Kg	☼	55	50 - 115	5	30
N-Nitrosodi-n-propylamine	28	U	680	416		ug/Kg	☼	61	40 - 115	8	30
1,4-Dichlorobenzene	28	U	680	355		ug/Kg	☼	52	35 - 105	26	30
2-Chloronaphthalene	3.4	U	680	382		ug/Kg	☼	56	45 - 105	4	30
2-Chlorophenol	28	U	680	422		ug/Kg	☼	62	45 - 105	7	30

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-1585-6 MSD
Matrix: Solid
Analysis Batch: 9080

Client Sample ID: LL4SS416M0001/0002SO
Prep Type: Total/NA
Prep Batch: 7317

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
4-Chlorophenyl phenyl ether	28	U	680	387		ug/Kg	☼	57	45 - 110	4	30
Chrysene	210	J	680	526	J	ug/Kg	☼	47	55 - 110	4	30
Dibenz(a,h)anthracene	28		680	415		ug/Kg	☼	57	40 - 125	11	30
Dibenzofuran	18	J	680	399		ug/Kg	☼	56	50 - 105	4	30
Benzo[g,h,i]perylene	140		680	503		ug/Kg	☼	53	40 - 125	12	30
Benzo[a]pyrene	130	J	680	450	J	ug/Kg	☼	47	50 - 110	4	30
Di-n-butyl phthalate	18	J	680	410		ug/Kg	☼	58	55 - 110	1	30
1,2-Dichlorobenzene	28	U J	680	373		ug/Kg	☼	55	45 - 95	24	30
1,3-Dichlorobenzene	28	U J	680	363	J	ug/Kg	☼	53	40 - 100	34	30
3,3'-Dichlorobenzidine	82	U J	680	82	U J	ug/Kg	☼	0	10 - 130	NC	30
2,4-Dichlorophenol	28	U	680	434		ug/Kg	☼	64	45 - 110	8	30
Diethyl phthalate	28	U	680	399		ug/Kg	☼	59	50 - 115	1	30
Indeno[1,2,3-cd]pyrene	100		680	470		ug/Kg	☼	54	40 - 120	12	30
Isophorone	28	U	680	395		ug/Kg	☼	58	45 - 110	14	30
2-Methylnaphthalene	45		680	520		ug/Kg	☼	70	45 - 105	9	30
2-Methylphenol	82	U	680	464		ug/Kg	☼	68	40 - 105	7	30
Naphthalene	31		680	415		ug/Kg	☼	56	40 - 105	12	30
2-Nitroaniline	28	U	680	424		ug/Kg	☼	62	45 - 120	1	30
3-Nitroaniline	82	U J	680	158	J	ug/Kg	☼	23	25 - 110	15	30
4-Nitroaniline	28	U J	680	218	J	ug/Kg	☼	32	35 - 115	200	30
Nitrobenzene	3.4	U	680	394		ug/Kg	☼	58	40 - 115	18	30
2-Nitrophenol	28	U	680	388		ug/Kg	☼	57	40 - 110	12	30
4-Nitrophenol	82	U	680	386		ug/Kg	☼	57	15 - 140	7	30
Pyrene	230		680	569		ug/Kg	☼	50	45 - 125	5	30
Pentachlorophenol	82	U J	680	120	J	ug/Kg	☼	18	25 - 120	77	30
Phenanthrene	110		680	488		ug/Kg	☼	55	50 - 110	5	30
1,2,4-Trichlorobenzene	28	U	680	350		ug/Kg	☼	51	45 - 110	14	30
2,4,5-Trichlorophenol	28	U	680	380		ug/Kg	☼	56	50 - 110	6	30
2,4,6-Trichlorophenol	82	U	680	362		ug/Kg	☼	53	45 - 110	6	30
Phenol	28	U	680	476		ug/Kg	☼	70	40 - 100	3	30
Carbazole	28	U	680	392		ug/Kg	☼	58	45 - 115	1	30
4-Chloroaniline	28	U J	680	105	J	ug/Kg	☼	15	10 - 95	200	30
3 & 4 Methylphenol	82	U	1360	898		ug/Kg	☼	66	40 - 105	2	30
Bis(2-ethylhexyl) phthalate	130		680	559		ug/Kg	☼	63	45 - 125	9	30
Di-n-octyl phthalate	28	U	680	422		ug/Kg	☼	62	40 - 130	3	30
4-Chloro-3-methylphenol	28	U	680	434		ug/Kg	☼	64	45 - 115	1	30
bis (2-Chloroisopropyl) ether	28	U	680	436		ug/Kg	☼	64	20 - 115	16	30

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*54*		*45 - 105*
2-Fluorophenol (Surr)	*65*		*35 - 105*
Nitrobenzene-d5 (Surr)	*54*		*35 - 100*
Terphenyl-d14 (Surr)	*61*		*30 - 125*
2,4,6-Tribromophenol (Surr)	*46*		*35 - 125*
Phenol-d5 (Surr)	*70*		*40 - 100*

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-7706/21-A
Matrix: Solid
Analysis Batch: 10089

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7706

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Anthracene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Benzo[a]anthracene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Benzo[b]fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Benzo[k]fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Fluorene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Chrysene	3.3	U	6.7	1.1	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Benzo[g,h,i]perylene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Benzo[a]pyrene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Indeno[1,2,3-cd]pyrene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Pyrene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Phenanthrene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*52*		*45 - 105*	*07/08/11 11:44*	*07/27/11 11:43*	*1*
2-Fluorophenol (Surr)	*65*		*35 - 105*	*07/08/11 11:44*	*07/27/11 11:43*	*1*
Nitrobenzene-d5 (Surr)	*56*		*35 - 100*	*07/08/11 11:44*	*07/27/11 11:43*	*1*
Terphenyl-d14 (Surr)	*71*		*30 - 125*	*07/08/11 11:44*	*07/27/11 11:43*	*1*
2,4,6-Tribromophenol (Surr)	*48*		*35 - 125*	*07/08/11 11:44*	*07/27/11 11:43*	*1*
Phenol-d5 (Surr)	*66*		*40 - 100*	*07/08/11 11:44*	*07/27/11 11:43*	*1*

Lab Sample ID: LCS 240-7706/22-A
Matrix: Solid
Analysis Batch: 10479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7706

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	667	350		ug/Kg		52	45 - 110
Acenaphthylene	667	377		ug/Kg		57	45 - 105
Anthracene	667	385		ug/Kg		58	55 - 105
Benzo[a]anthracene	667	377		ug/Kg		56	50 - 110
Benzo[b]fluoranthene	667	351		ug/Kg		53	45 - 115
Benzo[k]fluoranthene	667	430		ug/Kg		64	45 - 125
Fluoranthene	667	411		ug/Kg		62	55 - 115
Fluorene	667	365		ug/Kg		55	50 - 110
Chrysene	667	399		ug/Kg		60	55 - 110
Dibenz(a,h)anthracene	667	432		ug/Kg		65	40 - 125
Benzo[g,h,i]perylene	667	434		ug/Kg		65	40 - 125
Benzo[a]pyrene	667	356		ug/Kg		53	50 - 110
Indeno[1,2,3-cd]pyrene	667	429		ug/Kg		64	40 - 120
Naphthalene	667	294		ug/Kg		44	40 - 105
Pyrene	667	392		ug/Kg		59	45 - 125
Phenanthrene	667	374		ug/Kg		56	50 - 110

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*48*		*45 - 105*

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-7706/22-A
Matrix: Solid
Analysis Batch: 10479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7706

Surrogate	LCS % Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	66		35 - 105
Nitrobenzene-d5 (Surr)	49		35 - 100
Terphenyl-d14 (Surr)	66		30 - 125
2,4,6-Tribromophenol (Surr)	48		35 - 125
Phenol-d5 (Surr)	70		40 - 100

Method: 8081/DOD - Organochlorine Pesticides (GC)

Lab Sample ID: MB 240-7329/10-A
Matrix: Solid
Analysis Batch: 10143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7329

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.67	U	2.0	0.62	ug/Kg		07/06/11 12:38	07/29/11 20:10	1
4,4'-DDE	0.67	U	1.7	0.39	ug/Kg		07/06/11 12:38	07/29/11 20:10	1
4,4'-DDT	0.67	U	2.0	0.63	ug/Kg		07/06/11 12:38	07/29/11 20:10	1
Aldrin	1.3	U	4.0	1.2	ug/Kg		07/06/11 12:38	07/29/11 20:10	1
alpha-BHC	1.3	U	2.5	0.73	ug/Kg		07/06/11 12:38	07/29/11 20:10	1
alpha-Chlordane	1.3	U	3.0	0.94	ug/Kg		07/06/11 12:38	07/29/11 20:10	1
beta-BHC	1.3	U	3.5	1.1	ug/Kg		07/06/11 12:38	07/29/11 20:10	1
delta-BHC	1.3	U	4.0	1.2	ug/Kg		07/06/11 12:38	07/29/11 20:10	1
Dieldrin	0.67	U	1.7	0.47	ug/Kg		07/06/11 12:38	07/29/11 20:10	1
Endosulfan I	0.67	U	1.7	0.52	ug/Kg		07/06/11 12:38	07/29/11 20:10	1
Endosulfan II	1.3	U	2.5	0.82	ug/Kg		07/06/11 12:38	07/29/11 20:10	1
Endosulfan sulfate	1.3	U	3.0	0.87	ug/Kg		07/06/11 12:38	07/29/11 20:10	1
Endrin	0.67	U	1.7	0.50	ug/Kg		07/06/11 12:38	07/29/11 20:10	1
Endrin aldehyde	1.3	U	3.0	1.0	ug/Kg		07/06/11 12:38	07/29/11 20:10	1
Endrin ketone	0.67	U	2.0	0.63	ug/Kg		07/06/11 12:38	07/29/11 20:10	1
gamma-BHC (Lindane)	1.3	U	2.5	0.74	ug/Kg		07/06/11 12:38	07/29/11 20:10	1
gamma-Chlordane	0.67	U	1.7	0.42	ug/Kg		07/06/11 12:38	07/29/11 20:10	1
Heptachlor	1.3	U	3.5	1.1	ug/Kg		07/06/11 12:38	07/29/11 20:10	1
Heptachlor epoxide	1.3	U	2.5	0.80	ug/Kg		07/06/11 12:38	07/29/11 20:10	1
Methoxychlor	3.3	U	5.0	1.5	ug/Kg		07/06/11 12:38	07/29/11 20:10	1
Toxaphene	20	U	67	19	ug/Kg		07/06/11 12:38	07/29/11 20:10	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	91		55 - 130	07/06/11 12:38	07/29/11 20:10	1
DCB Decachlorobiphenyl	89		55 - 130	07/06/11 12:38	07/29/11 20:10	1
Tetrachloro-m-xylene	114		70 - 125	07/06/11 12:38	07/29/11 20:10	1
Tetrachloro-m-xylene	80		70 - 125	07/06/11 12:38	07/29/11 20:10	1

Lab Sample ID: LCS 240-7329/11-A
Matrix: Solid
Analysis Batch: 10143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDD	33.3	41.1		ug/Kg		123	30 - 135
4,4'-DDE	33.3	36.4		ug/Kg		109	70 - 125
4,4'-DDT	33.3	35.0	M	ug/Kg		105	45 - 140

Method: 8081/DOD - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 240-7329/11-A
Matrix: Solid
Analysis Batch: 10143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aldrin	33.3	37.4		ug/Kg		112	45 - 140
alpha-BHC	33.3	40.1	J	ug/Kg		120	60 - 125
alpha-Chlordane	33.3	39.5		ug/Kg		118	65 - 120
beta-BHC	33.3	39.9		ug/Kg		120	60 - 125
delta-BHC	33.3	45.3	Q	ug/Kg		136	55 - 130
Dieldrin	33.3	41.5		ug/Kg		125	65 - 125
Endosulfan I	33.3	18.6		ug/Kg		56	15 - 135
Endosulfan II	33.3	20.5		ug/Kg		61	35 - 140
Endosulfan sulfate	33.3	35.5		ug/Kg		107	60 - 135
Endrin	33.3	41.5		ug/Kg		125	60 - 135
Endrin aldehyde	33.3	30.8		ug/Kg		92	35 - 145
Endrin ketone	33.3	31.2		ug/Kg		94	65 - 135
gamma-BHC (Lindane)	33.3	43.2	Q	ug/Kg		130	60 - 125
gamma-Chlordane	33.3	43.2	Q	ug/Kg		130	65 - 125
Heptachlor	33.3	40.9		ug/Kg		123	50 - 140
Heptachlor epoxide	33.3	42.2		ug/Kg		127	65 - 130
Methoxychlor	33.3	33.7		ug/Kg		101	55 - 145

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*101*		*55 - 130*
DCB Decachlorobiphenyl	*91*		*55 - 130*
Tetrachloro-m-xylene	*180*	*Q*	*70 - 125*
Tetrachloro-m-xylene	*89*		*70 - 125*

Lab Sample ID: 240-1585-6 MS
Matrix: Solid
Analysis Batch: 10143

Client Sample ID: LL4SS416M0001/0002SO
Prep Type: Total/NA
Prep Batch: 7329

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDD	14		33.9	41.2	J D	ug/Kg	☼	121	30 - 135
4,4'-DDE	14		33.9	42.9	D M J	ug/Kg	☼	127	70 - 125
4,4'-DDT	14		33.9	34	U J	ug/Kg	☼	0	45 - 140
Aldrin	27		33.9	68	U	ug/Kg	☼	NC	45 - 140
alpha-BHC	27		33.9	64.7	J D	ug/Kg	☼	NC	60 - 125
alpha-Chlordane	27		33.9	68	U M	ug/Kg	☼	NC	65 - 120
beta-BHC	27		33.9	68	U	ug/Kg	☼	NC	60 - 125
delta-BHC	27		33.9	68	U	ug/Kg	☼	NC	55 - 130
Dieldrin	14		33.9	35.3	J D	ug/Kg	☼	104	65 - 125
Endosulfan I	14		33.9	34	U M J	ug/Kg	☼	0	15 - 135
Endosulfan II	27		33.9	68	U	ug/Kg	☼	NC	35 - 140
Endosulfan sulfate	27		33.9	68	U	ug/Kg	☼	NC	60 - 135
Endrin	14		33.9	39.0	J D	ug/Kg	☼	115	60 - 135
Endrin aldehyde	27		33.9	68	U M	ug/Kg	☼	NC	35 - 145
Endrin ketone	14		33.9	34	U J	ug/Kg	☼	0	65 - 135
gamma-BHC (Lindane)	27		33.9	40.5	J D	ug/Kg	☼	NC	60 - 125
gamma-Chlordane	14		33.9	38.9	J D M	ug/Kg	☼	115	65 - 125
Heptachlor	27		33.9	68	U J	ug/Kg	☼	NC	50 - 140
Heptachlor epoxide	27		33.9	68	U J	ug/Kg	☼	NC	65 - 130
Methoxychlor	67		33.9	170	U	ug/Kg	☼	NC	55 - 145

Method: 8081/DOD - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 240-1585-6 MS
Matrix: Solid
Analysis Batch: 10143

Client Sample ID: LL4SS416M0001/0002SO
Prep Type: Total/NA
Prep Batch: 7329

Surrogate	MS % Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	118	M	55 - 130
DCB Decachlorobiphenyl	129	M	55 - 130
Tetrachloro-m-xylene	2650	Q	70 - 125
Tetrachloro-m-xylene	119		70 - 125

Lab Sample ID: 240-1585-6 MSD
Matrix: Solid
Analysis Batch: 10143

Client Sample ID: LL4SS416M0001/0002SO
Prep Type: Total/NA
Prep Batch: 7329

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
4,4'-DDD	14		34.0	48.2	D J	ug/Kg	☼	142	30 - 135	13	30
4,4'-DDE	14		34.0	36.2	J D	ug/Kg	☼	107	70 - 125	17	30
4,4'-DDT	14		34.0	34	U J	ug/Kg	☼	0	45 - 140	NC	30
Aldrin	27		34.0	68	U	ug/Kg	☼	NC	45 - 140	NC	30
alpha-BHC	27		34.0	45.9	D J	ug/Kg	☼	NC	60 - 125	200	30
alpha-Chlordane	27		34.0	68	U	ug/Kg	☼	NC	65 - 120	NC	30
beta-BHC	27		34.0	68	U	ug/Kg	☼	NC	60 - 125	NC	30
delta-BHC	27		34.0	68	U	ug/Kg	☼	NC	55 - 130	NC	30
Dieldrin	14		34.0	36.2	J D	ug/Kg	☼	107	65 - 125	3	30
Endosulfan I	14		34.0	34	U M J	ug/Kg	☼	0	15 - 135	NC	30
Endosulfan II	27		34.0	68	U	ug/Kg	☼	NC	35 - 140	NC	30
Endosulfan sulfate	27		34.0	68	U	ug/Kg	☼	NC	60 - 135	NC	30
Endrin	14		34.0	44.0	J D	ug/Kg	☼	130	60 - 135	12	30
Endrin aldehyde	27		34.0	68	U	ug/Kg	☼	NC	35 - 145	NC	30
Endrin ketone	14		34.0	34.3	D J	ug/Kg	☼	101	65 - 135	200	30
gamma-BHC (Lindane)	27		34.0	41.0	J D	ug/Kg	☼	NC	60 - 125	1	30
gamma-Chlordane	14		34.0	35.8	J D	ug/Kg	☼	105	65 - 125	8	30
Heptachlor	27		34.0	68	U J	ug/Kg	☼	NC	50 - 140	NC	30
Heptachlor epoxide	27		34.0	68	U J	ug/Kg	☼	NC	65 - 130	NC	30
Methoxychlor	67		34.0	170	U	ug/Kg	☼	NC	55 - 145	NC	30

Surrogate	MSD % Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	124		55 - 130
DCB Decachlorobiphenyl	162	Q	55 - 130
Tetrachloro-m-xylene	770	Q	70 - 125
Tetrachloro-m-xylene	94		70 - 125

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-7321/11-A
Matrix: Solid
Analysis Batch: 8680

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7321

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	65	21	ug/Kg		07/06/11 12:08	07/16/11 18:46	1
Aroclor 1221	25	U	50	16	ug/Kg		07/06/11 12:08	07/16/11 18:46	1
Aroclor 1232	25	U	45	14	ug/Kg		07/06/11 12:08	07/16/11 18:46	1
Aroclor 1242	25	U	40	13	ug/Kg		07/06/11 12:08	07/16/11 18:46	1
Aroclor 1248	25	U	55	17	ug/Kg		07/06/11 12:08	07/16/11 18:46	1

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 240-7321/11-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 8680 — **Prep Batch: 7321**

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1254	25	U	55	17	ug/Kg		07/06/11 12:08	07/16/11 18:46	1
Aroclor 1260	25	U	55	17	ug/Kg		07/06/11 12:08	07/16/11 18:46	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*40 - 140*	*07/06/11 12:08*	*07/16/11 18:46*	*1*
Tetrachloro-m-xylene	*69*		*40 - 140*	*07/06/11 12:08*	*07/16/11 18:46*	*1*
DCB Decachlorobiphenyl	*69*		*60 - 125*	*07/06/11 12:08*	*07/16/11 18:46*	*1*
DCB Decachlorobiphenyl	*60*		*60 - 125*	*07/06/11 12:08*	*07/16/11 18:46*	*1*

Lab Sample ID: LCS 240-7321/12-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 8680 — **Prep Batch: 7321**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aroclor 1016	333	267		ug/Kg		80	40 - 140
Aroclor 1260	333	265		ug/Kg		80	60 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*40 - 140*
Tetrachloro-m-xylene	*79*		*40 - 140*
DCB Decachlorobiphenyl	*72*		*60 - 125*
DCB Decachlorobiphenyl	*73*		*60 - 125*

Lab Sample ID: MB 240-9136/4-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 9453 — **Prep Batch: 9136**

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	65	21	ug/Kg		07/20/11 12:40	07/22/11 17:37	1
Aroclor 1221	25	U	50	16	ug/Kg		07/20/11 12:40	07/22/11 17:37	1
Aroclor 1232	25	U	45	14	ug/Kg		07/20/11 12:40	07/22/11 17:37	1
Aroclor 1242	25	U	40	13	ug/Kg		07/20/11 12:40	07/22/11 17:37	1
Aroclor 1248	25	U	55	17	ug/Kg		07/20/11 12:40	07/22/11 17:37	1
Aroclor 1254	25	U	55	17	ug/Kg		07/20/11 12:40	07/22/11 17:37	1
Aroclor 1260	25	U	55	17	ug/Kg		07/20/11 12:40	07/22/11 17:37	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*40 - 140*	*07/20/11 12:40*	*07/22/11 17:37*	*1*
Tetrachloro-m-xylene	*72*		*40 - 140*	*07/20/11 12:40*	*07/22/11 17:37*	*1*
DCB Decachlorobiphenyl	*75*		*60 - 125*	*07/20/11 12:40*	*07/22/11 17:37*	*1*
DCB Decachlorobiphenyl	*77*		*60 - 125*	*07/20/11 12:40*	*07/22/11 17:37*	*1*

Lab Sample ID: LCS 240-9136/5-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 9453 — **Prep Batch: 9136**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aroclor 1016	333	270		ug/Kg		81	40 - 140
Aroclor 1260	333	262		ug/Kg		79	60 - 130

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-9136/5-A
Matrix: Solid
Analysis Batch: 9453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9136

Surrogate	LCS % Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	*75*		*40 - 140*
Tetrachloro-m-xylene	*71*		*40 - 140*
DCB Decachlorobiphenyl	*79*		*60 - 125*
DCB Decachlorobiphenyl	*75*		*60 - 125*

Lab Sample ID: 240-1585-6 MS
Matrix: Solid
Analysis Batch: 9453

Client Sample ID: LL4SS416M0001/0002SO
Prep Type: Total/NA
Prep Batch: 9136

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits		
Aroclor 1016	25	U H	342	201	H	ug/Kg	☼	59	40 - 140		
Aroclor 1260	25	U H J	342	182	H J	ug/Kg	☼	53	60 - 130		

Surrogate	MS % Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	*62*		*40 - 140*
Tetrachloro-m-xylene	*60*		*40 - 140*
DCB Decachlorobiphenyl	*62*		*60 - 125*
DCB Decachlorobiphenyl	*80*		*60 - 125*

Lab Sample ID: 240-1585-6 MSD
Matrix: Solid
Analysis Batch: 9453

Client Sample ID: LL4SS416M0001/0002SO
Prep Type: Total/NA
Prep Batch: 9136

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Aroclor 1016	25	U H	341	242	H	ug/Kg	☼	71	40 - 140	18	30
Aroclor 1260	25	U H J	341	229	H	ug/Kg	☼	67	60 - 130	23	30

Surrogate	MSD % Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	*69*		*40 - 140*
Tetrachloro-m-xylene	*69*		*40 - 140*
DCB Decachlorobiphenyl	*79*		*60 - 125*
DCB Decachlorobiphenyl	*140*	*Q*	*60 - 125*

Method: 8330 (Modified) - Organic Compounds by UV/HPLC

Lab Sample ID: G1G080000063B
Matrix: Solid
Analysis Batch: 1189063

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 1189063_P

Analyte	MB Result	MB Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	0.040 U		0.25	0.020	mg/kg		07/08/11 09:30	07/27/11 20:30	1

Lab Sample ID: G1G080000063C
Matrix: Solid
Analysis Batch: 1189063

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 1189063_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Nitroguanidine			1.00	0.935		mg/kg		93	72 - 121		

Method: 8330 (Modified) - Organic Compounds by UV/HPLC (Continued)

Lab Sample ID: 240-1585-6 MS — **Client Sample ID: LL4SS416M0001/0002SO**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1189063 — **Prep Batch: 1189063_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitroguanidine	0.040 U		0.980	0.725		mg/kg		74	72 - 121

Lab Sample ID: 240-1585-6 MSD — **Client Sample ID: LL4SS416M0001/0002SO**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1189063 — **Prep Batch: 1189063_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Nitroguanidine	0.040 U		0.990	0.700	a	mg/kg		71	72 - 121	3.5	20

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Lab Sample ID: G1G080000062B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1189062 — **Prep Batch: 1189062_P**

Analyte	MB Result	MB Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.10 U		0.25	0.020	mg/kg		07/08/11 09:30	07/20/11 12:35	1
1,3-Dinitrobenzene	0.10 U		0.25	0.050	mg/kg		07/08/11 09:30	07/20/11 12:35	1
2,4,6-Trinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/08/11 09:30	07/20/11 12:35	1
2,4-Dinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/08/11 09:30	07/20/11 12:35	1
2,6-Dinitrotoluene	0.10 U		0.25	0.030	mg/kg		07/08/11 09:30	07/20/11 12:35	1
2-Amino-4,6-dinitrotoluene	0.10 U		0.25	0.10	mg/kg		07/08/11 09:30	07/20/11 12:35	1
2-Nitrotoluene	0.10 U		0.25	0.080	mg/kg		07/08/11 09:30	07/20/11 12:35	1
3-Nitrotoluene	0.10 U		0.25	0.070	mg/kg		07/08/11 09:30	07/20/11 12:35	1
4-Amino-2,6-dinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/08/11 09:30	07/20/11 12:35	1
4-Nitrotoluene	0.10 U		0.25	0.080	mg/kg		07/08/11 09:30	07/20/11 12:35	1
HMX	0.10 U		0.25	0.030	mg/kg		07/08/11 09:30	07/20/11 12:35	1
Nitrobenzene	0.10 U		0.25	0.050	mg/kg		07/08/11 09:30	07/20/11 12:35	1
Nitroglycerin	0.25 U		0.50	0.13	mg/kg		07/08/11 09:30	07/20/11 12:35	1
PETN	0.25 U		0.50	0.16	mg/kg		07/08/11 09:30	07/20/11 12:35	1
RDX	0.10 U		0.25	0.040	mg/kg		07/08/11 09:30	07/20/11 12:35	1
Tetryl	0.10 U		0.25	0.050	mg/kg		07/08/11 09:30	07/20/11 12:35	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*89*		*78 - 108*	*07/08/11 09:30*	*07/20/11 12:35*	*1*

Lab Sample ID: G1G080000062C — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1189062 — **Prep Batch: 1189062_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,3,5-Trinitrobenzene	1.00	1.00		mg/kg		100	75 - 125
1,3-Dinitrobenzene	1.00	1.01		mg/kg		101	80 - 125
2,4,6-Trinitrotoluene	1.00	0.910		mg/kg		91	55 - 140
2,4-Dinitrotoluene	1.00	0.981		mg/kg		98	80 - 125
2,6-Dinitrotoluene	1.00	0.974		mg/kg		97	80 - 120
2-Amino-4,6-dinitrotoluene	1.00	0.981		mg/kg		98	80 - 125
2-Nitrotoluene	1.00	0.918		mg/kg		92	80 - 125
3-Nitrotoluene	1.00	0.945		mg/kg		95	75 - 120

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A) (Continued)

Lab Sample ID: G1G080000062C
Matrix: Solid
Analysis Batch: 1189062

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 1189062_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4-Amino-2,6-dinitrotoluene	1.00	0.979		mg/kg		98	80 - 125
4-Nitrotoluene	1.00	0.923		mg/kg		92	75 - 125
HMX	1.00	0.980		mg/kg		98	75 - 125
Nitrobenzene	1.00	0.978		mg/kg		98	75 - 125
Nitroglycerin	5.00	4.57		mg/kg		91	84 - 114
PETN	5.00	4.50		mg/kg		90	85 - 115
RDX	1.00	1.09		mg/kg		109	70 - 135
Tetryl	1.00	0.942		mg/kg		94	10 - 150

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
3,4-Dinitrotoluene	*90*		*78 - 108*

Lab Sample ID: 240-1585-6 MS
Matrix: Solid
Analysis Batch: 1189062

Client Sample ID: LL4SS416M0001/0002SO
Prep Type: Total
Prep Batch: 1189062_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
1,3,5-Trinitrobenzene	0.098 U		0.980	0.958		mg/kg		98	75 - 125
1,3-Dinitrobenzene	0.098 U		0.980	0.988		mg/kg		101	80 - 125
2,4,6-Trinitrotoluene	0.098 U		0.980	0.911		mg/kg		93	55 - 140
2,4-Dinitrotoluene	0.098 U		0.980	0.964		mg/kg		98	80 - 125
2,6-Dinitrotoluene	0.098 U		0.980	0.964		mg/kg		98	80 - 120
2-Amino-4,6-dinitrotoluene	0.098 U		0.980	0.959		mg/kg		98	80 - 125
2-Nitrotoluene	0.098 U		0.980	0.929		mg/kg		95	80 - 125
3-Nitrotoluene	0.098 U		0.980	0.940		mg/kg		96	75 - 120
4-Amino-2,6-dinitrotoluene	0.098 U		0.980	0.946		mg/kg		97	80 - 125
4-Nitrotoluene	0.098 U		0.980	0.914		mg/kg		93	75 - 125
HMX	0.098 U		0.980	0.960		mg/kg		98	75 - 125
Nitrobenzene	0.098 U		0.980	1.01		mg/kg		103	75 - 125
Nitroglycerin	0.24 U		4.90	4.49		mg/kg		92	84 - 114
PETN	0.24 U		4.90	4.42		mg/kg		90	85 - 115
RDX	0.098 U		0.980	1.00		mg/kg		102	70 - 135
Tetryl	0.098 U		0.980	0.845		mg/kg		86	10 - 150

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
3,4-Dinitrotoluene	*90*		*78 - 108*

Lab Sample ID: 240-1585-6 MSD
Matrix: Solid
Analysis Batch: 1189062

Client Sample ID: LL4SS416M0001/0002SO
Prep Type: Total
Prep Batch: 1189062_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,3,5-Trinitrobenzene	0.098 U		1.01	0.998		mg/kg		99	75 - 125	4.2	30
1,3-Dinitrobenzene	0.098 U		1.01	1.01		mg/kg		101	80 - 125	2.5	30
2,4,6-Trinitrotoluene	0.098 U		1.01	0.933		mg/kg		93	55 - 140	2.4	30
2,4-Dinitrotoluene	0.098 U		1.01	1.02		mg/kg		101	80 - 125	5.6	30
2,6-Dinitrotoluene	0.098 U		1.01	1.04		mg/kg		103	80 - 120	7.2	30
2-Amino-4,6-dinitrotoluene	0.098 U		1.01	1.01		mg/kg		100	80 - 125	5.0	30
2-Nitrotoluene	0.098 U		1.01	0.962		mg/kg		96	80 - 125	3.5	30

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A) (Continued)

Lab Sample ID: 240-1585-6 MSD — **Client Sample ID: LL4SS416M0001/0002SO**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1189062 — **Prep Batch: 1189062_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
3-Nitrotoluene	0.098 U		1.01	0.973		mg/kg		97	75 - 120	3.4	30
4-Amino-2,6-dinitrotoluene	0.098 U		1.01	0.979		mg/kg		97	80 - 125	3.4	30
4-Nitrotoluene	0.098 U		1.01	0.948		mg/kg		94	75 - 125	3.7	30
HMX	0.098 U		1.01	0.958		mg/kg		95	75 - 125	0.24	30
Nitrobenzene	0.098 U		1.01	1.01		mg/kg		101	75 - 125	0.39	30
Nitroglycerin	0.24 U		5.03	4.64		mg/kg		92	84 - 114	3.4	30
PETN	0.24 U		5.03	4.68		mg/kg		93	85 - 115	5.7	30
RDX	0.098 U		1.01	1.05		mg/kg		104	70 - 135	4.7	30
Tetryl	0.098 U		1.01	0.852		mg/kg		85	10 - 150	0.86	30

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
3,4-Dinitrotoluene	*91*		*78 - 108*

Method: 6020/DOD - Metals (ICP/MS)

Lab Sample ID: MB 240-14048/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 14738 — **Prep Batch: 14048**

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.58	J	10	2.5	mg/Kg		09/01/11 09:48	09/08/11 10:41	1
Calcium	100	U	200	40	mg/Kg		09/01/11 09:48	09/08/11 10:41	1
Iron	30	U	50	11	mg/Kg		09/01/11 09:48	09/08/11 10:41	1
Magnesium	25	U	100	8.9	mg/Kg		09/01/11 09:48	09/08/11 10:41	1
Potassium	10	U	100	3.8	mg/Kg		09/01/11 09:48	09/08/11 10:41	1
Sodium	40	U	100	14	mg/Kg		09/01/11 09:48	09/08/11 10:41	1

Lab Sample ID: LCS 240-14048/2-A ^10 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 14738 — **Prep Batch: 14048**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	1000	951	D	mg/Kg		95	80 - 120
Calcium	1000	953	J D	mg/Kg		95	80 - 120
Iron	1000	1070	D	mg/Kg		107	80 - 120
Magnesium	1000	974	J D	mg/Kg		97	80 - 120
Potassium	1000	958	J D	mg/Kg		96	80 - 120
Sodium	1000	1060	D	mg/Kg		106	80 - 120

Lab Sample ID: 240-1585-6 MS — **Client Sample ID: LL4SS416M0001/0002SO**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 14738 — **Prep Batch: 14048**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	5900	J	991	7540	4	mg/Kg	☼	165	70 - 130
Calcium	4500	J	991	5450	4	mg/Kg	☼	95	70 - 130
Iron	16000	J	991	16500	4	mg/Kg	☼	58	70 - 130
Magnesium	1900		991	2930		mg/Kg	☼	100	70 - 130
Potassium	710		991	1680		mg/Kg	☼	98	70 - 130
Sodium	38	J	991	1070		mg/Kg	☼	104	70 - 130

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-1585-6 MSD
Matrix: Solid
Analysis Batch: 14738

Client Sample ID: LL4SS416M0001/0002SO
Prep Type: Total/NA
Prep Batch: 14048

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Aluminum	5900	J	991	7720	4	mg/Kg	☼	183	70 - 130	2	20
Calcium	4500	J	991	6190	4	mg/Kg	☼	170	70 - 130	13	20
Iron	16000	J	991	16900	4	mg/Kg	☼	102	70 - 130	3	20
Magnesium	1900		991	3090		mg/Kg	☼	117	70 - 130	5	20
Potassium	710		991	1670		mg/Kg	☼	97	70 - 130	0	20
Sodium	38	J	991	1100		mg/Kg	☼	107	70 - 130	2	20

Lab Sample ID: MB 240-8611/1-A
Matrix: Solid
Analysis Batch: 13778

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8611

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.15	U	0.20	0.062	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Arsenic	0.15	U	0.50	0.052	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Barium	0.30	U	0.50	0.13	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Calcium	100	U	200	40	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Chromium	0.45	U	0.50	0.16	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Copper	0.30	U	0.40	0.11	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Iron	30	U	50	11	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Lead	0.20	U	0.30	0.071	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Magnesium	25	U	100	8.9	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Manganese	0.40	U	0.50	0.16	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Nickel	0.103	J	0.50	0.086	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Potassium	10	U	100	3.8	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Selenium	0.060	U	0.50	0.021	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Sodium	40	U	100	14	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Thallium	0.15	U	0.20	0.056	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Vanadium	0.10	U	0.50	0.043	mg/Kg		07/15/11 12:40	08/25/11 22:08	1

Lab Sample ID: MB 240-8611/1-A
Matrix: Solid
Analysis Batch: 13699

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8611

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.0	U	10	2.5	mg/Kg		07/15/11 12:40	08/29/11 13:37	1
Beryllium	0.010	U	0.10	0.0035	mg/Kg		07/15/11 12:40	08/29/11 13:37	1
Cadmium	0.010	U	0.20	0.0031	mg/Kg		07/15/11 12:40	08/29/11 13:37	1
Cobalt	0.015	U	0.10	0.0045	mg/Kg		07/15/11 12:40	08/29/11 13:37	1
Silver	0.050	U	0.10	0.016	mg/Kg		07/15/11 12:40	08/29/11 13:37	1
Zinc	2.0	U	4.0	1.0	mg/Kg		07/15/11 12:40	08/29/11 13:37	1

Lab Sample ID: LCS 240-8611/2-A
Matrix: Solid
Analysis Batch: 13778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Antimony	10.0	10.1	D	mg/Kg		101	68 - 113
Arsenic	100	99.8	D	mg/Kg		100	73 - 110
Barium	100	96.2	D	mg/Kg		96	70 - 110
Calcium	1000	1010	J D	mg/Kg		101	80 - 120

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-8611/2-A
Matrix: Solid
Analysis Batch: 13778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chromium	100	102	D	mg/Kg		102	70 - 110
Copper	100	108	D	mg/Kg		108	73 - 110
Iron	1000	1060	D	mg/Kg		106	80 - 120
Lead	100	92.1	D	mg/Kg		92	75 - 110
Magnesium	1000	1080	D	mg/Kg		108	80 - 120
Manganese	100	106	D	mg/Kg		106	80 - 120
Nickel	100	108	D	mg/Kg		108	75 - 110
Potassium	1000	1020	D	mg/Kg		102	80 - 120
Selenium	100	98.3	D	mg/Kg		98	65 - 110
Sodium	1000	1070	D	mg/Kg		107	80 - 120
Thallium	100	90.6	D	mg/Kg		91	71 - 110
Vanadium	100	98.9	D	mg/Kg		99	72 - 110

Lab Sample ID: LCS 240-8611/2-A ^10
Matrix: Solid
Analysis Batch: 13699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	1000	1040	D	mg/Kg		104	80 - 120
Beryllium	100	99.6	D	mg/Kg		100	79 - 110
Cadmium	100	106	D	mg/Kg		106	74 - 110
Cobalt	100	99.7	D	mg/Kg		100	74 - 110
Silver	10.0	10.8	D	mg/Kg		108	60 - 114
Zinc	100	111	D	mg/Kg		111	72 - 113

Lab Sample ID: 240-1585-6 MS
Matrix: Solid
Analysis Batch: 13778

Client Sample ID: LL4SS416M0001/0002SO
Prep Type: Total/NA
Prep Batch: 8611

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Antimony	0.090	J	10.0	3.15	J	mg/Kg	☼	31	75 - 125
Arsenic	8.0		10.0	15.9		mg/Kg	☼	79	23 - 131
Barium	67	J	10.0	86.0	4	mg/Kg	☼	186	10 - 199
Chromium	19		10.0	28.4		mg/Kg	☼	90	10 - 199
Copper	14		10.0	22.6		mg/Kg	☼	82	10 - 199
Lead	22		10.0	32.1		mg/Kg	☼	97	10 - 199
Nickel	24		10.0	32.4		mg/Kg	☼	81	10 - 176
Selenium	0.81		10.0	7.73		mg/Kg	☼	69	39 - 116
Thallium	0.12	J	10.0	9.11		mg/Kg	☼	90	82 - 110
Vanadium	12		10.0	22.7		mg/Kg	☼	109	39 - 129

Lab Sample ID: 240-1585-6 MS
Matrix: Solid
Analysis Batch: 13699

Client Sample ID: LL4SS416M0001/0002SO
Prep Type: Total/NA
Prep Batch: 8611

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Beryllium	0.48	J D	10.0	10.1	D	mg/Kg	☼	96	58 - 112
Cadmium	0.37	J D	10.0	10.3	D	mg/Kg	☼	99	58 - 110
Cobalt	6.3	D	10.0	16.1	D	mg/Kg	☼	99	55 - 110
Manganese	430	D J	10.0	487	D 4	mg/Kg	☼	564	10 - 199

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-1585-6 MS
Matrix: Solid
Analysis Batch: 13699

Client Sample ID: LL4SS416M0001/0002SO
Prep Type: Total/NA
Prep Batch: 8611

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Silver	0.25	U	10.0	10.0	D	mg/Kg	☼	100	75 - 125
Zinc	110	D J	10.0	146	D 4	mg/Kg	☼	404	10 - 199

Lab Sample ID: 240-1585-6 MSD
Matrix: Solid
Analysis Batch: 13778

Client Sample ID: LL4SS416M0001/0002SO
Prep Type: Total/NA
Prep Batch: 8611

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Antimony	0.090	J	10.0	3.34	J	mg/Kg	☼	32	75 - 125	6	20
Arsenic	8.0		10.0	15.8		mg/Kg	☼	78	23 - 131	1	20
Barium	67	J	10.0	96.8	4	mg/Kg	☼	294	10 - 199	12	20
Chromium	19		10.0	30.0		mg/Kg	☼	106	10 - 199	6	20
Copper	14		10.0	22.5		mg/Kg	☼	82	10 - 199	0	20
Lead	22		10.0	31.6		mg/Kg	☼	92	10 - 199	2	20
Nickel	24		10.0	33.1		mg/Kg	☼	88	10 - 176	2	20
Selenium	0.81		10.0	7.71		mg/Kg	☼	69	39 - 116	0	20
Thallium	0.12	J	10.0	9.41		mg/Kg	☼	93	82 - 110	3	20
Vanadium	12		10.0	22.9		mg/Kg	☼	111	39 - 129	1	20

Lab Sample ID: 240-1585-6 MSD
Matrix: Solid
Analysis Batch: 13699

Client Sample ID: LL4SS416M0001/0002SO
Prep Type: Total/NA
Prep Batch: 8611

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Beryllium	0.48	J D	10.0	10.1	D	mg/Kg	☼	96	58 - 112	1	20
Cadmium	0.37	J D	10.0	10.2	D	mg/Kg	☼	98	58 - 110	1	20
Cobalt	6.3	D	10.0	15.7	D	mg/Kg	☼	95	55 - 110	2	20
Manganese	430	D J	10.0	517	D 4	mg/Kg	☼	872	10 - 199	6	20
Silver	0.25	U	10.0	10.0	D	mg/Kg	☼	100	75 - 125	0	20
Zinc	110	D J	10.0	118	D 4 J	mg/Kg	☼	125	10 - 199	21	20

Method: 7471/DOD - Mercury (CVAA)

Lab Sample ID: MB 240-8619/1-A
Matrix: Solid
Analysis Batch: 8899

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8619

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033	U	0.10	0.014	mg/Kg		07/15/11 15:30	07/18/11 16:40	1

Lab Sample ID: LCS 240-8619/2-A
Matrix: Solid
Analysis Batch: 8899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8619

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.833	0.840		mg/Kg		101	80 - 120

Method: 7471/DOD - Mercury (CVAA) (Continued)

Lab Sample ID: 240-1585-6 MS — **Client Sample ID: LL4SS416M0001/0002SO**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 8899 — **Prep Batch: 8619**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.024	J	0.170	0.203		mg/Kg	☼	105	80 - 120

Lab Sample ID: 240-1585-6 MSD — **Client Sample ID: LL4SS416M0001/0002SO**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 8899 — **Prep Batch: 8619**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.024	J	0.170	0.198		mg/Kg	☼	102	80 - 120	3	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 240-8820/3-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 9165 — **Prep Batch: 8820**

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	0.80	U	0.80	0.27	mg/Kg		07/18/11 14:13	07/20/11 00:00	1

Lab Sample ID: LCSI 240-8820/5-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 9165 — **Prep Batch: 8820**

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	% Rec	% Rec. Limits
Hexavalent chromium	643	712		mg/Kg		111	75 - 125

Lab Sample ID: LCSS 240-8820/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 9165 — **Prep Batch: 8820**

Analyte	Spike Added	LCSS Result	LCSS Qualifier	Unit	D	% Rec	% Rec. Limits
Hexavalent chromium	20.0	21.2		mg/Kg		106	90 - 110

Method: WS-WC-0050 - Nitrocellulose as N by WS-WC-0050

Lab Sample ID: G1G200000012B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1201012 — **Prep Batch: 1201012_P**

Analyte	MB Result	MB Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	1.8 U		5.0	0.78	mg/kg		07/20/11 05:35	07/21/11 12:31	1

Lab Sample ID: G1G200000012C — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1201012 — **Prep Batch: 1201012_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrocellulose	50.7	32.4		mg/kg		64	34 - 115

GC/MS VOA

Prep Batch: 7596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-8	LL4SS416V0001/0002SO	Total/NA	Solid	5035	
240-1585-8 MS	LL4SS416V0001/0002SO	Total/NA	Solid	5035	
240-1585-9	LL4SS-417V-0001-SO	Total/NA	Solid	5035	
LCS 240-7596/7-A	Lab Control Sample	Total/NA	Solid	5035	
MB 240-7596/6-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 7735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-8	LL4SS416V0001/0002SO	Total/NA	Solid	8260B/DoD	7596
240-1585-8 MS	LL4SS416V0001/0002SO	Total/NA	Solid	8260B/DoD	7596
240-1585-9	LL4SS-417V-0001-SO	Total/NA	Solid	8260B/DoD	7596
LCS 240-7596/7-A	Lab Control Sample	Total/NA	Solid	8260B/DoD	7596
MB 240-7596/6-A	Method Blank	Total/NA	Solid	8260B/DoD	7596

GC/MS Semi VOA

Prep Batch: 7314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-13	L12SS304M0001/0002SO	Total/NA	Solid	3540C	7607
240-1585-13 MS	L12SS304M0001/0002SO	Total/NA	Solid	3540C	7607
240-1585-13 MSD	L12SS304M0001/0002SO	Total/NA	Solid	3540C	7607
LCS 240-7314/2-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-7314/1-A	Method Blank	Total/NA	Solid	3540C	

Prep Batch: 7317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-1	LL4SS-412M-0001-SO	Total/NA	Solid	3540C	7607
240-1585-2	LL4SS414M0001/0002SO	Total/NA	Solid	3540C	7607
240-1585-2 MS	LL4SS414M0001/0002SO	Total/NA	Solid	3540C	7607
240-1585-2 MSD	LL4SS414M0001/0002SO	Total/NA	Solid	3540C	7607
240-1585-3	LL4SS-419M-0001-SO	Total/NA	Solid	3540C	7607
240-1585-4	LL4SS-420M-0001-SO	Total/NA	Solid	3540C	7607
240-1585-5	LL4SB-421M-0001-SO	Total/NA	Solid	3540C	7607
240-1585-6	LL4SS416M0001/0002SO	Total/NA	Solid	3540C	7607
240-1585-6 MS	LL4SS416M0001/0002SO	Total/NA	Solid	3540C	7607
240-1585-6 MSD	LL4SS416M0001/0002SO	Total/NA	Solid	3540C	7607
240-1585-7	LL4SS-417M-0001-SO	Total/NA	Solid	3540C	7607
LCS 240-7317/22-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-7317/21-A	Method Blank	Total/NA	Solid	3540C	

Leach Batch: 7607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-1	LL4SS-412M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1585-2	LL4SS414M0001/0002SO	Total/NA	Solid	Increm, Prep	
240-1585-2 MS	LL4SS414M0001/0002SO	Total/NA	Solid	Increm, Prep	
240-1585-2 MSD	LL4SS414M0001/0002SO	Total/NA	Solid	Increm, Prep	
240-1585-3	LL4SS-419M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1585-4	LL4SS-420M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1585-5	LL4SB-421M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1585-6	LL4SS416M0001/0002SO	Total/NA	Solid	Increm, Prep	
240-1585-6 MS	LL4SS416M0001/0002SO	Total/NA	Solid	Increm, Prep	
240-1585-6 MSD	LL4SS416M0001/0002SO	Total/NA	Solid	Increm, Prep	

GC/MS Semi VOA (Continued)

Leach Batch: 7607 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-7	LL4SS-417M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1585-10	L12SS-306M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1585-11	L12SS-305M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1585-12	L12SS-303M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1585-13	L12SS304M0001/0002SO	Total/NA	Solid	Increm, Prep	
240-1585-13 MS	L12SS304M0001/0002SO	Total/NA	Solid	Increm, Prep	
240-1585-13 MSD	L12SS304M0001/0002SO	Total/NA	Solid	Increm, Prep	

Prep Batch: 7706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-10	L12SS-306M-0001-SO	Total/NA	Solid	3540C	7607
240-1585-11	L12SS-305M-0001-SO	Total/NA	Solid	3540C	7607
240-1585-12	L12SS-303M-0001-SO	Total/NA	Solid	3540C	7607
LCS 240-7706/22-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-7706/21-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 8303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-7317/22-A	Lab Control Sample	Total/NA	Solid	8270C/DoD	7317
MB 240-7317/21-A	Method Blank	Total/NA	Solid	8270C/DoD	7317

Analysis Batch: 9080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-1	LL4SS-412M-0001-SO	Total/NA	Solid	8270C/DoD	7317
240-1585-3	LL4SS-419M-0001-SO	Total/NA	Solid	8270C/DoD	7317
240-1585-4	LL4SS-420M-0001-SO	Total/NA	Solid	8270C/DoD	7317
240-1585-5	LL4SB-421M-0001-SO	Total/NA	Solid	8270C/DoD	7317
240-1585-6	LL4SS416M0001/0002SO	Total/NA	Solid	8270C/DoD	7317
240-1585-6 MSD	LL4SS416M0001/0002SO	Total/NA	Solid	8270C/DoD	7317
240-1585-7	LL4SS-417M-0001-SO	Total/NA	Solid	8270C/DoD	7317

Analysis Batch: 9528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-2	LL4SS414M0001/0002SO	Total/NA	Solid	8270C/DoD	7317
240-1585-2 MS	LL4SS414M0001/0002SO	Total/NA	Solid	8270C/DoD	7317

Analysis Batch: 10089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-2 MSD	LL4SS414M0001/0002SO	Total/NA	Solid	8270C/DoD	7317
240-1585-10	L12SS-306M-0001-SO	Total/NA	Solid	8270C/DoD	7706
240-1585-12	L12SS-303M-0001-SO	Total/NA	Solid	8270C/DoD	7706
240-1585-13	L12SS304M0001/0002SO	Total/NA	Solid	8270C/DoD	7314
240-1585-13 MS	L12SS304M0001/0002SO	Total/NA	Solid	8270C/DoD	7314
240-1585-13 MSD	L12SS304M0001/0002SO	Total/NA	Solid	8270C/DoD	7314
LCS 240-7314/2-A	Lab Control Sample	Total/NA	Solid	8270C/DoD	7314
MB 240-7314/1-A	Method Blank	Total/NA	Solid	8270C/DoD	7314
MB 240-7706/21-A	Method Blank	Total/NA	Solid	8270C/DoD	7706

Analysis Batch: 10338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-11	L12SS-305M-0001-SO	Total/NA	Solid	8270C/DoD	7706

GC/MS Semi VOA (Continued)

Analysis Batch: 10479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-7706/22-A	Lab Control Sample	Total/NA	Solid	8270C/DoD	7706

Analysis Batch: 11019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6 MS	LL4SS416M0001/0002SO	Total/NA	Solid	8270C/DoD	7317

GC Semi VOA

Prep Batch: 7321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total/NA	Solid	3540C	7607
240-1585-7	LL4SS-417M-0001-SO	Total/NA	Solid	3540C	7607
LCS 240-7321/12-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-7321/11-A	Method Blank	Total/NA	Solid	3540C	

Prep Batch: 7329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total/NA	Solid	3540C	7607
240-1585-6 MS	LL4SS416M0001/0002SO	Total/NA	Solid	3540C	7607
240-1585-6 MSD	LL4SS416M0001/0002SO	Total/NA	Solid	3540C	7607
240-1585-7	LL4SS-417M-0001-SO	Total/NA	Solid	3540C	7607
LCS 240-7329/11-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-7329/10-A	Method Blank	Total/NA	Solid	3540C	

Leach Batch: 7607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total/NA	Solid	Increm, Prep	
240-1585-6 - RE	LL4SS416M0001/0002SO	Total/NA	Solid	Increm, Prep	
240-1585-6 MS	LL4SS416M0001/0002SO	Total/NA	Solid	Increm, Prep	
240-1585-6 MSD	LL4SS416M0001/0002SO	Total/NA	Solid	Increm, Prep	
240-1585-7	LL4SS-417M-0001-SO	Total/NA	Solid	Increm, Prep	

Analysis Batch: 8680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total/NA	Solid	8082/DOD	7321
240-1585-7	LL4SS-417M-0001-SO	Total/NA	Solid	8082/DOD	7321
LCS 240-7321/12-A	Lab Control Sample	Total/NA	Solid	8082/DOD	7321
MB 240-7321/11-A	Method Blank	Total/NA	Solid	8082/DOD	7321

Prep Batch: 9136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6 - RE	LL4SS416M0001/0002SO	Total/NA	Solid	3540C	7607
240-1585-6 MS	LL4SS416M0001/0002SO	Total/NA	Solid	3540C	7607
240-1585-6 MSD	LL4SS416M0001/0002SO	Total/NA	Solid	3540C	7607
LCS 240-9136/5-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-9136/4-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 9453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6 - RE	LL4SS416M0001/0002SO	Total/NA	Solid	8082/DOD	9136
240-1585-6 MS	LL4SS416M0001/0002SO	Total/NA	Solid	8082/DOD	9136
240-1585-6 MSD	LL4SS416M0001/0002SO	Total/NA	Solid	8082/DOD	9136

GC Semi VOA (Continued)

Analysis Batch: 9453 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-9136/5-A	Lab Control Sample	Total/NA	Solid	8082/DOD	9136
MB 240-9136/4-A	Method Blank	Total/NA	Solid	8082/DOD	9136

Analysis Batch: 10143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total/NA	Solid	8081/DOD	7329
240-1585-6 MS	LL4SS416M0001/0002SO	Total/NA	Solid	8081/DOD	7329
240-1585-6 MSD	LL4SS416M0001/0002SO	Total/NA	Solid	8081/DOD	7329
240-1585-7	LL4SS-417M-0001-SO	Total/NA	Solid	8081/DOD	7329
LCS 240-7329/11-A	Lab Control Sample	Total/NA	Solid	8081/DOD	7329
MB 240-7329/10-A	Method Blank	Total/NA	Solid	8081/DOD	7329

HPLC

Analysis Batch: 1189062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total	Solid	8330/8330A	
240-1585-6 MS	LL4SS416M0001/0002SO	Total	Solid	8330/8330A	
240-1585-6 MSD	LL4SS416M0001/0002SO	Total	Solid	8330/8330A	
240-1585-7	LL4SS-417M-0001-SO	Total	Solid	8330/8330A	
G1G080000062B	Method Blank	Total	Solid	8330/8330A	
G1G080000062C	Lab Control Sample	Total	Solid	8330/8330A	

Analysis Batch: 1189063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total	Solid	8330 (Modified)	
240-1585-6 MS	LL4SS416M0001/0002SO	Total	Solid	8330 (Modified)	
240-1585-6 MSD	LL4SS416M0001/0002SO	Total	Solid	8330 (Modified)	
240-1585-7	LL4SS-417M-0001-SO	Total	Solid	8330 (Modified)	
G1G080000063B	Method Blank	Total	Solid	8330 (Modified)	
G1G080000063C	Lab Control Sample	Total	Solid	8330 (Modified)	

Prep Batch: 1189062_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total	Solid	8330	
240-1585-6 MS	LL4SS416M0001/0002SO	Total	Solid	8330	
240-1585-6 MSD	LL4SS416M0001/0002SO	Total	Solid	8330	
240-1585-7	LL4SS-417M-0001-SO	Total	Solid	8330	
G1G080000062B	Method Blank	Total	Solid	8330	
G1G080000062C	Lab Control Sample	Total	Solid	8330	

Prep Batch: 1189063_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total	Solid	3550A	
240-1585-6 MS	LL4SS416M0001/0002SO	Total	Solid	3550A	
240-1585-6 MSD	LL4SS416M0001/0002SO	Total	Solid	3550A	
240-1585-7	LL4SS-417M-0001-SO	Total	Solid	3550A	
G1G080000063B	Method Blank	Total	Solid	3550A	
G1G080000063C	Lab Control Sample	Total	Solid	3550A	

Metals

Leach Batch: 7607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total/NA	Solid	Increm, Prep	
240-1585-6 MS	LL4SS416M0001/0002SO	Total/NA	Solid	Increm, Prep	
240-1585-6 MSD	LL4SS416M0001/0002SO	Total/NA	Solid	Increm, Prep	
240-1585-7	LL4SS-417M-0001-SO	Total/NA	Solid	Increm, Prep	

Prep Batch: 8611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total/NA	Solid	3050B	7607
240-1585-6 MS	LL4SS416M0001/0002SO	Total/NA	Solid	3050B	7607
240-1585-6 MSD	LL4SS416M0001/0002SO	Total/NA	Solid	3050B	7607
240-1585-7	LL4SS-417M-0001-SO	Total/NA	Solid	3050B	7607
LCS 240-8611/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 240-8611/2-A ^10	Lab Control Sample	Total/NA	Solid	3050B	
MB 240-8611/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 8619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total/NA	Solid	7471A	7607
240-1585-6 MS	LL4SS416M0001/0002SO	Total/NA	Solid	7471A	7607
240-1585-6 MSD	LL4SS416M0001/0002SO	Total/NA	Solid	7471A	7607
240-1585-7	LL4SS-417M-0001-SO	Total/NA	Solid	7471A	7607
LCS 240-8619/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 240-8619/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 8899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total/NA	Solid	7471/DOD	8619
240-1585-6 MS	LL4SS416M0001/0002SO	Total/NA	Solid	7471/DOD	8619
240-1585-6 MSD	LL4SS416M0001/0002SO	Total/NA	Solid	7471/DOD	8619
240-1585-7	LL4SS-417M-0001-SO	Total/NA	Solid	7471/DOD	8619
LCS 240-8619/2-A	Lab Control Sample	Total/NA	Solid	7471/DOD	8619
MB 240-8619/1-A	Method Blank	Total/NA	Solid	7471/DOD	8619

Analysis Batch: 13699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total/NA	Solid	6020/DOD	8611
240-1585-6 MS	LL4SS416M0001/0002SO	Total/NA	Solid	6020/DOD	8611
240-1585-6 MSD	LL4SS416M0001/0002SO	Total/NA	Solid	6020/DOD	8611
240-1585-7	LL4SS-417M-0001-SO	Total/NA	Solid	6020/DOD	8611
LCS 240-8611/2-A ^10	Lab Control Sample	Total/NA	Solid	6020/DOD	8611
MB 240-8611/1-A	Method Blank	Total/NA	Solid	6020/DOD	8611

Analysis Batch: 13778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total/NA	Solid	6020/DOD	8611
240-1585-6 MS	LL4SS416M0001/0002SO	Total/NA	Solid	6020/DOD	8611
240-1585-6 MSD	LL4SS416M0001/0002SO	Total/NA	Solid	6020/DOD	8611
240-1585-7	LL4SS-417M-0001-SO	Total/NA	Solid	6020/DOD	8611
LCS 240-8611/2-A	Lab Control Sample	Total/NA	Solid	6020/DOD	8611
MB 240-8611/1-A	Method Blank	Total/NA	Solid	6020/DOD	8611

Metals (Continued)

Prep Batch: 14048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total/NA	Solid	3050B	7607
240-1585-6 MS	LL4SS416M0001/0002SO	Total/NA	Solid	3050B	7607
240-1585-6 MSD	LL4SS416M0001/0002SO	Total/NA	Solid	3050B	7607
LCS 240-14048/2-A ^10	Lab Control Sample	Total/NA	Solid	3050B	
MB 240-14048/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 14738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total/NA	Solid	6020/DOD	14048
240-1585-6 MS	LL4SS416M0001/0002SO	Total/NA	Solid	6020/DOD	14048
240-1585-6 MSD	LL4SS416M0001/0002SO	Total/NA	Solid	6020/DOD	14048
LCS 240-14048/2-A ^10	Lab Control Sample	Total/NA	Solid	6020/DOD	14048
MB 240-14048/1-A	Method Blank	Total/NA	Solid	6020/DOD	14048

General Chemistry

Analysis Batch: 6996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-8	LL4SS416V0001/0002SO	Total/NA	Solid	Moisture	
240-1585-8 DU	LL4SS416V0001/0002SO	Total/NA	Solid	Moisture	
240-1585-9	LL4SS-417V-0001-SO	Total/NA	Solid	Moisture	

Analysis Batch: 7201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-1	LL4SS-412M-0001-SO	Total/NA	Solid	Moisture	
240-1585-2	LL4SS414M0001/0002SO	Total/NA	Solid	Moisture	
240-1585-2 DU	LL4SS414M0001/0002SO	Total/NA	Solid	Moisture	
240-1585-3	LL4SS-419M-0001-SO	Total/NA	Solid	Moisture	
240-1585-4	LL4SS-420M-0001-SO	Total/NA	Solid	Moisture	
240-1585-5	LL4SB-421M-0001-SO	Total/NA	Solid	Moisture	
240-1585-6	LL4SS416M0001/0002SO	Total/NA	Solid	Moisture	
240-1585-6 DU	LL4SS416M0001/0002SO	Total/NA	Solid	Moisture	
240-1585-7	LL4SS-417M-0001-SO	Total/NA	Solid	Moisture	
240-1585-10	L12SS-306M-0001-SO	Total/NA	Solid	Moisture	
240-1585-11	L12SS-305M-0001-SO	Total/NA	Solid	Moisture	
240-1585-12	L12SS-303M-0001-SO	Total/NA	Solid	Moisture	
240-1585-13	L12SS304M0001/0002SO	Total/NA	Solid	Moisture	
240-1585-13 DU	L12SS304M0001/0002SO	Total/NA	Solid	Moisture	

Leach Batch: 7607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total/NA	Solid	Increm, Prep	
240-1585-7	LL4SS-417M-0001-SO	Total/NA	Solid	Increm, Prep	

Prep Batch: 8820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total/NA	Solid	3060A	7607
240-1585-7	LL4SS-417M-0001-SO	Total/NA	Solid	3060A	7607
LCSI 240-8820/5-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSS 240-8820/4-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 240-8820/3-A	Method Blank	Total/NA	Solid	3060A	

General Chemistry (Continued)

Analysis Batch: 9165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total/NA	Solid	7196A	8820
240-1585-7	LL4SS-417M-0001-SO	Total/NA	Solid	7196A	8820
LCSI 240-8820/5-A	Lab Control Sample	Total/NA	Solid	7196A	8820
LCSS 240-8820/4-A	Lab Control Sample	Total/NA	Solid	7196A	8820
MB 240-8820/3-A	Method Blank	Total/NA	Solid	7196A	8820

Analysis Batch: 1201012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total	Solid	WS-WC-0050	
240-1585-7	LL4SS-417M-0001-SO	Total	Solid	WS-WC-0050	
G1G200000012B	Method Blank	Total	Solid	WS-WC-0050	
G1G200000012C	Lab Control Sample	Total	Solid	WS-WC-0050	

Analysis Batch: 1202173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total	Solid	D 2216-90	
240-1585-7	LL4SS-417M-0001-SO	Total	Solid	D 2216-90	
G1G070472001X	LL4SS416M0001/0002SO	Total	Solid	D 2216-90	

Prep Batch: 1201012_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-6	LL4SS416M0001/0002SO	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	
240-1585-7	LL4SS-417M-0001-SO	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	
G1G200000012B	Method Blank	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	
G1G200000012C	Lab Control Sample	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	

Client Sample ID: LL4SS-412M-0001-SO

Lab Sample ID: 240-1585-1

Date Collected: 06/26/11 11:20

Matrix: Solid

Date Received: 06/27/11 16:41

Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7607	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7317	07/06/11 11:47	AR	TAL NC
Total/NA	Analysis	8270C/DoD		1	9080	07/18/11 22:14	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 16:58	AM	TAL NC

Client Sample ID: LL4SS414M0001/0002SO

Lab Sample ID: 240-1585-2

Date Collected: 06/26/11 12:00

Matrix: Solid

Date Received: 06/27/11 16:41

Percent Solids: 97.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7607	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7317	07/06/11 11:47	AR	TAL NC
Total/NA	Analysis	8270C/DoD		1	9528	07/23/11 21:44	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 16:58	AM	TAL NC

Client Sample ID: LL4SS-419M-0001-SO

Lab Sample ID: 240-1585-3

Date Collected: 06/26/11 09:15

Matrix: Solid

Date Received: 06/27/11 16:41

Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7607	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7317	07/06/11 11:47	AR	TAL NC
Total/NA	Analysis	8270C/DoD		1	9080	07/18/11 22:33	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 16:58	AM	TAL NC

Client Sample ID: LL4SS-420M-0001-SO

Lab Sample ID: 240-1585-4

Date Collected: 06/26/11 10:30

Matrix: Solid

Date Received: 06/27/11 16:41

Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7607	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7317	07/06/11 11:47	AR	TAL NC
Total/NA	Analysis	8270C/DoD		1	9080	07/18/11 22:52	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 16:58	AM	TAL NC

Client Sample ID: LL4SB-421M-0001-SO

Lab Sample ID: 240-1585-5

Date Collected: 06/26/11 10:30

Matrix: Solid

Date Received: 06/27/11 16:41

Percent Solids: 98.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7607	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7317	07/06/11 11:47	AR	TAL NC
Total/NA	Analysis	8270C/DoD		1	9080	07/18/11 20:37	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 16:58	AM	TAL NC

Client Sample ID: LL4SS416M0001/0002SO

Lab Sample ID: 240-1585-6

Date Collected: 06/26/11 14:00
Matrix: Solid
Date Received: 06/27/11 16:41
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7607	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7317	07/06/11 11:47	AR	TAL NC
Total/NA	Analysis	8270C/DoD		1	9080	07/18/11 20:56	MU	TAL NC
Total/NA	Leach	Increm, Prep			7607	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7329	07/06/11 12:38	SM	TAL NC
Total/NA	Analysis	8081/DOD		20	10143	07/29/11 16:37	CV	TAL NC
Total/NA	Prep	3540C			7321	07/06/11 12:08	SM	TAL NC
Total/NA	Analysis	8082/DOD		1	8680	07/16/11 16:00	LH	TAL NC
Total/NA	Leach	Increm, Prep	RE		7607	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C	RE		9136	07/20/11 12:40	CC	TAL NC
Total/NA	Analysis	8082/DOD	RE	1	9453	07/22/11 16:54	LH	TAL NC
Total	Prep	8330			1189062_P	07/08/11 09:30	TQP	TAL WSC
Total	Analysis	8330/8330A		0.98	1189062	07/20/11 13:56	NS	TAL WSC
Total	Prep	3550A			1189063_P	07/08/11 09:30	TQP	TAL WSC
Total	Analysis	8330 (Modified)		1	1189063	07/27/11 20:59	NS	TAL WSC
Total/NA	Leach	Increm, Prep			7607	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3050B			8611	07/15/11 12:40	DE	TAL NC
Total/NA	Analysis	6020/DOD		5	13699	08/29/11 15:39	NJM	TAL NC
Total/NA	Analysis	6020/DOD		1	13778	08/26/11 00:23	NJM	TAL NC
Total/NA	Prep	3050B			14048	09/01/11 09:48	DE	TAL NC
Total/NA	Analysis	6020/DOD		1	14738	09/08/11 11:39	KC	TAL NC
Total/NA	Prep	7471A			8619	07/15/11 15:30	DE	TAL NC
Total/NA	Analysis	7471/DOD		1	8899	07/18/11 17:25	BD	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 16:58	AM	TAL NC
Total/NA	Leach	Increm, Prep			7607	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3060A			8820	07/18/11 14:13	LG	TAL NC
Total/NA	Analysis	7196A		1	9165	07/20/11 16:08	JM	TAL NC
Total	Prep	EXTRACTION, SOLID/SOLVENT (Manual)			1201012_P	07/20/11 05:35	HJA	TAL WSC
Total	Analysis	WS-WC-0050		1	1201012	07/21/11 12:35	JR	TAL WSC
Total	Analysis	D 2216-90		1	1202173	07/22/11 09:51	KG	TAL WSC

Client Sample ID: LL4SS-417M-0001-SO

Lab Sample ID: 240-1585-7

Date Collected: 06/26/11 14:06
Matrix: Solid
Date Received: 06/27/11 16:41
Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7607	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7317	07/06/11 11:47	AR	TAL NC
Total/NA	Analysis	8270C/DoD		1	9080	07/18/11 21:54	MU	TAL NC
Total/NA	Leach	Increm, Prep			7607	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7329	07/06/11 12:38	SM	TAL NC
Total/NA	Analysis	8081/DOD		10	10143	07/29/11 17:07	CV	TAL NC
Total/NA	Prep	3540C			7321	07/06/11 12:08	SM	TAL NC
Total/NA	Analysis	8082/DOD		1	8680	07/16/11 16:45	LH	TAL NC

Client Sample ID: LL4SS-417M-0001-SO

Lab Sample ID: 240-1585-7

Date Collected: 06/26/11 14:06

Matrix: Solid

Date Received: 06/27/11 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	8330			1189062_P	07/08/11 09:30	TQP	TAL WSC
Total	Analysis	8330/8330A		0.98	1189062	07/20/11 15:56	NS	TAL WSC
Total	Prep	3550A			1189063_P	07/08/11 09:30	TQP	TAL WSC
Total	Analysis	8330 (Modified)		0.99	1189063	07/27/11 21:42	NS	TAL WSC
Total/NA	Leach	Increm, Prep			7607	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3050B			8611	07/15/11 13:42	DE	TAL NC
Total/NA	Analysis	6020/DOD		1	13699	08/29/11 15:54	NJM	TAL NC
Total/NA	Analysis	6020/DOD		1	13778	08/26/11 00:51	NJM	TAL NC
Total/NA	Prep	7471A			8619	07/15/11 15:30	DE	TAL NC
Total/NA	Analysis	7471/DOD		1	8899	07/18/11 17:29	BD	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 16:58	AM	TAL NC
Total/NA	Leach	Increm, Prep			7607	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3060A			8820	07/18/11 14:13	LG	TAL NC
Total/NA	Analysis	7196A		1	9165	07/20/11 16:09	JM	TAL NC
Total	Prep	EXTRACTION, SOLID/SOLVENT (Manual)			1201012_P	07/20/11 05:35	HJA	TAL WSC
Total	Analysis	WS-WC-0050		1	1201012	07/21/11 12:37	JR	TAL WSC
Total	Analysis	D 2216-90		1	1202173	07/22/11 09:51	KG	TAL WSC

Client Sample ID: LL4SS416V0001/0002SO

Lab Sample ID: 240-1585-8

Date Collected: 06/26/11 14:10

Matrix: Solid

Date Received: 06/27/11 16:41

Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7596	07/07/11 15:43	BF	TAL NC
Total/NA	Analysis	8260B/DoD		1	7735	07/08/11 16:43	SM	TAL NC
Total/NA	Analysis	Moisture		1	6996	07/02/11 14:04	AM	TAL NC

Client Sample ID: LL4SS-417V-0001-SO

Lab Sample ID: 240-1585-9

Date Collected: 06/26/11 14:10

Matrix: Solid

Date Received: 06/27/11 16:41

Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7596	07/07/11 15:43	BF	TAL NC
Total/NA	Analysis	8260B/DoD		1	7735	07/08/11 17:26	SM	TAL NC
Total/NA	Analysis	Moisture		1	6996	07/02/11 14:04	AM	TAL NC

Client Sample ID: L12SS-306M-0001-SO

Lab Sample ID: 240-1585-10

Date Collected: 06/26/11 15:20

Matrix: Solid

Date Received: 06/27/11 16:41

Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7607	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7706	07/08/11 11:44	SE	TAL NC

Lab Chronicle

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1585-1

Client Sample ID: L12SS-306M-0001-SO

Lab Sample ID: 240-1585-10

Date Collected: 06/26/11 15:20
Matrix: Solid
Date Received: 06/27/11 16:41
Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8270C/DoD		2	10089	07/27/11 19:33	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 17:23	AM	TAL NC

Client Sample ID: L12SS-305M-0001-SO

Lab Sample ID: 240-1585-11

Date Collected: 06/26/11 15:30
Matrix: Solid
Date Received: 06/27/11 16:41
Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7607	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7706	07/08/11 11:44	SE	TAL NC
Total/NA	Analysis	8270C/DoD		4	10338	07/30/11 20:50	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 17:23	AM	TAL NC

Client Sample ID: L12SS-303M-0001-SO

Lab Sample ID: 240-1585-12

Date Collected: 06/26/11 15:50
Matrix: Solid
Date Received: 06/27/11 16:41
Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7607	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7706	07/08/11 11:44	SE	TAL NC
Total/NA	Analysis	8270C/DoD		20	10089	07/27/11 18:56	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 17:23	AM	TAL NC

Client Sample ID: L12SS304M0001/0002SO

Lab Sample ID: 240-1585-13

Date Collected: 06/26/11 16:25
Matrix: Solid
Date Received: 06/27/11 16:41
Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7607	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7314	07/06/11 11:43	SM	TAL NC
Total/NA	Analysis	8270C/DoD		50	10089	07/27/11 17:59	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 17:23	AM	TAL NC

Laboratory References:
TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396
TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1585-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica North Canton	ACLASS	DoD ELAP		ADE-1437
TestAmerica North Canton	California	NELAC	9	01144CA
TestAmerica North Canton	Connecticut	State Program	1	PH-0590
TestAmerica North Canton	Florida	NELAC	4	E87225
TestAmerica North Canton	Georgia	Georgia EPD	4	N/A
TestAmerica North Canton	Illinois	NELAC	5	200004
TestAmerica North Canton	Kansas	NELAC	7	E-10336
TestAmerica North Canton	Kentucky	State Program	4	58
TestAmerica North Canton	Minnesota	NELAC	5	039-999-348
TestAmerica North Canton	Nevada	State Program	9	OH-000482008A
TestAmerica North Canton	New Jersey	NELAC	2	OH001
TestAmerica North Canton	New York	NELAC	2	10975
TestAmerica North Canton	Ohio	OVAP	5	CL0024
TestAmerica North Canton	Pennsylvania	NELAC	3	68-00340
TestAmerica North Canton	USDA	USDA		P330-11-00328
TestAmerica North Canton	Virginia	NELAC Secondary AB	3	460175
TestAmerica North Canton	West Virginia	West Virginia DEP	3	210
TestAmerica North Canton	Wisconsin	State Program	5	999518190
TestAmerica West Sacramento		USEPA UCMR		CA00044
TestAmerica West Sacramento	A2LA	DoD ELAP		2928-01
TestAmerica West Sacramento	Alaska	Alaska UST	10	UST-055
TestAmerica West Sacramento	Arizona	State Program	9	AZ0708
TestAmerica West Sacramento	Arkansas	State Program	6	88-0691
TestAmerica West Sacramento	California	NELAC	9	1119CA
TestAmerica West Sacramento	Colorado	State Program	8	N/A
TestAmerica West Sacramento	Connecticut	State Program	1	PH-0691
TestAmerica West Sacramento	Florida	NELAC	4	E87570
TestAmerica West Sacramento	Georgia	State Program	4	960
TestAmerica West Sacramento	Guam	State Program	9	N/A
TestAmerica West Sacramento	Hawaii	State Program	9	N/A
TestAmerica West Sacramento	Illinois	NELAC	5	200060
TestAmerica West Sacramento	Kansas	NELAC	7	E-10375
TestAmerica West Sacramento	Louisiana	NELAC	6	30612
TestAmerica West Sacramento	Michigan	State Program	5	9947
TestAmerica West Sacramento	Nevada	State Program	9	CA44
TestAmerica West Sacramento	New Jersey	NELAC	2	CA005
TestAmerica West Sacramento	New Mexico	State Program	6	N/A
TestAmerica West Sacramento	New York	NELAC	2	11666
TestAmerica West Sacramento	Oregon	NELAC	10	CA200005
TestAmerica West Sacramento	Pennsylvania	NELAC	3	68-01272
TestAmerica West Sacramento	South Carolina	State Program	4	87014
TestAmerica West Sacramento	Texas	NELAC	6	T104704399-08-TX
TestAmerica West Sacramento	US Fish & Wildlife	US Fish & Wildlife		LE148388-0
TestAmerica West Sacramento	USDA	USDA		P330-09-00055
TestAmerica West Sacramento	Utah	NELAC	8	QUAN1
TestAmerica West Sacramento	Virginia	State Program	3	178
TestAmerica West Sacramento	Washington	State Program	10	C581
TestAmerica West Sacramento	West Virginia	West Virginia DEP	3	334
TestAmerica West Sacramento	West Virginia	West Virginia DHHR (DW)	3	9930C
TestAmerica West Sacramento	Wisconsin	State Program	5	998204680
TestAmerica West Sacramento	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: NORTH CANTON
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other RVAAP

TestAmerica Laboratories, Inc.

Client Contact	Client Project Manager:	Site Contact:	Lab Contact:	COC No:
Company Name: PRUDENT TECHNOLOGIES	JOHN JENT	JOHN JENT	MARK LOEB	014327
Address: 8284 MEDICAL DR (742)	Telephone: 502 439-8005	Telephone: 502-439-8005	Telephone: 330-497-9396	1 of 2 COCs
City/State/Zip: SAN ANTONIO, TX 78229	Email: JJENT@PRUDENTUSA.COM	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: 210-822-9588		TAT if different from below ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: LLS 1-4, 12	Method of Shipment/Carrier: TESTAMER. PICKUP			Job/SDG No:
Project Number: W912QR-10-P-0037	Shipping/Tracking No:			
PO#				Sample Specific Notes / Special Instructions:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	6010 B TAL	8330 B - NON PULV	PROPELLANT	8270C SVOC	8081 PESTICIDE	8082 PCB	8270C-LL (PAH)	7196A CR+6	7471A HG	8260B VOC
LL455-412M-0001-SO	6-26-2011	1120				X																	X			
LL455-414M-0001-SO		1200				X																	X			
LL455-414M-0002-SO(MS/MSD)		1200																					X			
~~LL455-416M-0001-SO~~		~~1450~~																								
LL455-419M-0001-SO		0915																					X			
LL455-420M-0001-SO		1030																					X			
LL455-421M-0001-SO		1030																					X			
LL455-416M-0001-SO		1400															X	X	X	X	X	X		X	X	
LL455-416M-0002-SO(MS/MSD)		1400															*	X	X	X	X	X				
LL455-417M-0001-SO	6-26-2011	1406				X											X	X	X	X	X	X		X	X	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	PRUDENT	6-27-2011 1600	[signature]	TAL-NC	6/27/11 1600
[signature]	TAL-NC	6/27/11 1641	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TAL	Date/Time: 6/27/11 1641

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TAL 0018- 1 (04/10)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: NL CANTON
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other RVAAP

TestAmerica Laboratories, Inc.

Client Contact	Client Project Manager:	Site Contact:	Lab Contact:	COC No:
Company Name: PRUDENT TECH	JOHN JENT	John Jent	MARK LORS	014328
Address: ~~5242~~ 5411 MEDICAL DR SUITE 5250	Telephone: ~~502~~ 502-439-8005	Telephone: 502-439-8005	Telephone: 330-497-9396	2 of 2 COCs
City/State/Zip: SAN ANTONIO, TX 78229	Email: JJent@prudentinc.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: 210-822-9588		TAT if different from below ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: LLS1-4,12	Method of Shipment/Carrier: TestAmerica Pickup			Job/SDG No:
Project Number: W912QR-10-P-0037	Shipping/Tracking No:			
PO #				Sample Specific Notes / Special Instructions:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other: MeOH	Filtered Sample (Y/N)	Composite C / Grab G	6010B TAL MDNI Pwlr	8330B PrOPELLANTS	8270C SVOC	8081 PEST	8082 PCB	8270C-LL (PAH)	7196 CrVI	7474 HG	8260B VOC
LL455-416V-0001-SO	6-26-2011	1410		~~X~~		X								X										X	
LL455-416V-0002-SO(MS/MSD)		1410		X		X								X										X	
LL455-417V-0001-SO		1410				X								X										X	
LL255-306M-0001-SO		1520				X																X			
LL255-305M-0001-SO		1530				X																X			
LL255-303M-0001-SO		1550				X																X			
LL255-304M-0001-SO		1625				X																X			
LL255-304M-0002-SO(MS/MSD)	6-26-2011	1625				X																X			

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	PRUDENT	6-27-2011 1606	[signature]	TAL-NC	6/27/11 - 1606
Relinquished by: [signature]	Company: TAL-NC	Date/Time: 6/27/11 - 1641	Received by: [signature]	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TAL	Date/Time: 6-27-11 1641

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TAL 0018- 1 (04/10)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 240-1585

North Canton Facility

Client Prudent Project LL51-4.12 By Jeff Clark (Signature)

Cooler Received on 6.27.11 Opened on 6.28.11

FedEx ☐ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☒ Other ____

TestAmerica Cooler # ____ Multiple Coolers ☒ Foam Box ☐ Client Cooler ☐ Other ____

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒
   If YES, Quantity ____ Quantity Unsalvageable ____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☒
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? ____
2. Shippers' packing slip attached to the cooler(s)? Yes ☐ No ☒
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☐ Foam ☐ None ☒ Other ____
6. Cooler temperature upon receipt ____ °C See back of form for multiple coolers/temps ☒
   METHOD: IR ☒ Other ☐ ____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM ____ Date ____ by ____ via Verbal ☐ Voice Mail ☐ Other ☐

Concerning ____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.

Sample(s) ____ were received in a broken container.

Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)? ____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Login Sample Receipt Checklist

Client: Prudent Technologies, Inc

Job Number: 240-1585-1

Login Number: 1585

List Source: TestAmerica North Canton

List Number: 1

Creator: Sutek, Nick

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	5.3 4.7
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica North Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-1585-2
Client Project/Site: RVAAP

For:
Prudent Technologies, Inc
4242 Medical Drive
Suite 7250
San Antonio, Texas 78229

Attn: Ms. Amanda L. Miller

Authorized for release by:
10/05/2011 09:09:43 AM

Mark Loeb
Project Manager II
mark.loeb@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Definitions/Glossary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1585-2

Qualifiers

Metals

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-1585-2

Laboratory: TestAmerica North Canton

Narrative

CASE NARRATIVE

Client: Prudent Technologies, Inc

Project: RVAAP

Report Number: 240-1585-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

TestAmerica utilizes USEPA approved methods and DOD QSM, where applicable, in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters for which TestAmerica North Canton has certification were evaluated to the limit of detection (LOD) and include qualified results where applicable. Parameters not certified under QSM, if any, were evaluated to the detection limit (DL) and include qualified results where applicable.

The sample(s) that contain constituents flagged with U are undetected. The result associated with this flag is the limit of detection (LOD).

RECEIPT

The samples were received on 06/27/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 4.7 and 5.3 C.

TOTAL METALS (ICPMS)

Samples L12SS-303M-0001-SO (240-1585-12) and L12SS304M0001/0002SO (240-1585-13) were analyzed for total metals (ICPMS) in accordance with EPA SW-846 Method 6020 DoD. The samples were leached on 07/05/2011, prepared on 09/27/2011 and analyzed on 09/28/2011.

Arsenic was detected in method blank MB 240-16917/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

Job ID: 240-1585-2 (Continued)

Laboratory: TestAmerica North Canton (Continued)

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

Method Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1585-2

Method	Method Description	Protocol	Laboratory
6020/DOD	Metals (ICP/MS)	SW846	TAL NC

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1585-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-1585-12	L12SS-303M-0001-SO	Solid	06/26/11 15:50	06/27/11 16:41
240-1585-13	L12SS304M0001/0002SO	Solid	06/26/11 16:25	06/27/11 16:41

Detection Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1585-2

Client Sample ID: L12SS-303M-0001-SO — Lab Sample ID: 240-1585-12

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		0.51	0.053	mg/Kg	1	☼	6020/DOD	Total/NA

Client Sample ID: L12SS304M0001/0002SO — Lab Sample ID: 240-1585-13

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		0.46	0.049	mg/Kg	1	☼	6020/DOD	Total/NA

Client Sample ID: L12SS-303M-0001-SO

Lab Sample ID: 240-1585-12

Date Collected: 06/26/11 15:50
Matrix: Solid
Date Received: 06/27/11 16:41
Percent Solids: 96.5

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		0.51	0.053	mg/Kg	☼	09/27/11 14:41	09/28/11 09:01	1

Client Sample ID: L12SS304M0001/0002SO

Lab Sample ID: 240-1585-13

Date Collected: 06/26/11 16:25
Matrix: Solid
Date Received: 06/27/11 16:41
Percent Solids: 96.9

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		0.46	0.049	mg/Kg	☼	09/27/11 14:41	09/28/11 09:06	1

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1585-2

Method: 6020/DOD - Metals (ICP/MS)

Lab Sample ID: MB 240-16917/1-A
Matrix: Solid
Analysis Batch: 17129

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16917

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.114	J	0.50	0.052	mg/Kg		09/27/11 11:54	09/28/11 07:53	1

Lab Sample ID: LCS 240-16917/2-A
Matrix: Solid
Analysis Batch: 17129

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	100	81.2		mg/Kg		81	73 - 110

Metals

Leach Batch: 7607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-12	L12SS-303M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1585-13	L12SS304M0001/0002SO	Total/NA	Solid	Increm, Prep	

Prep Batch: 16917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-12	L12SS-303M-0001-SO	Total/NA	Solid	3050B	7607
240-1585-13	L12SS304M0001/0002SO	Total/NA	Solid	3050B	7607
LCS 240-16917/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 240-16917/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 17129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1585-12	L12SS-303M-0001-SO	Total/NA	Solid	6020/DOD	16917
240-1585-13	L12SS304M0001/0002SO	Total/NA	Solid	6020/DOD	16917
LCS 240-16917/2-A	Lab Control Sample	Total/NA	Solid	6020/DOD	16917
MB 240-16917/1-A	Method Blank	Total/NA	Solid	6020/DOD	16917

Lab Chronicle

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1585-2

Client Sample ID: L12SS-303M-0001-SO

Lab Sample ID: 240-1585-12

Date Collected: 06/26/11 15:50

Matrix: Solid

Date Received: 06/27/11 16:41

Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7607	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3050B			16917	09/27/11 14:41	AS	TAL NC
Total/NA	Analysis	6020/DOD		1	17129	09/28/11 09:01	KC	TAL NC

Client Sample ID: L12SS304M0001/0002SO

Lab Sample ID: 240-1585-13

Date Collected: 06/26/11 16:25

Matrix: Solid

Date Received: 06/27/11 16:41

Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7607	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3050B			16917	09/27/11 14:41	AS	TAL NC
Total/NA	Analysis	6020/DOD		1	17129	09/28/11 09:06	KC	TAL NC

Laboratory References:
TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1585-2

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica North Canton	ACLASS	DoD ELAP		ADE-1437
TestAmerica North Canton	California	NELAC	9	01144CA
TestAmerica North Canton	Connecticut	State Program	1	PH-0590
TestAmerica North Canton	Florida	NELAC	4	E87225
TestAmerica North Canton	Georgia	Georgia EPD	4	N/A
TestAmerica North Canton	Illinois	NELAC	5	200004
TestAmerica North Canton	Kansas	NELAC	7	E-10336
TestAmerica North Canton	Kentucky	State Program	4	58
TestAmerica North Canton	Minnesota	NELAC	5	039-999-348
TestAmerica North Canton	Nevada	State Program	9	OH-000482008A
TestAmerica North Canton	New Jersey	NELAC	2	OH001
TestAmerica North Canton	New York	NELAC	2	10975
TestAmerica North Canton	Ohio	OVAP	5	CL0024
TestAmerica North Canton	Pennsylvania	NELAC	3	68-00340
TestAmerica North Canton	USDA	USDA		P330-11-00328
TestAmerica North Canton	Virginia	NELAC Secondary AB	3	460175
TestAmerica North Canton	West Virginia	West Virginia DEP	3	210
TestAmerica North Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: NORTH CANTON
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other RVAAP

TestAmerica Laboratories, Inc.

Client Contact	Client Project Manager:	Site Contact:	Lab Contact:	COC No:
Company Name: PRUDENT TECHNOLOGIES	JOHN JENT	JOHN JENT	MARK LOEB	014327
Address: 8284 MEDICAL DR (742)	Telephone: 502 439-8005	Telephone: 502-439-8005	Telephone: 330-497-9396	1 of 2 COCs
City/State/Zip: SAN ANTONIO, TX 78229	Email: JJENT@PRUDENTUSA.COM	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: 210-822-9588		TAT if different from below ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: LLS 1-4, 12	Method of Shipment/Carrier: TESTAMER. PICKUP			Job/SDG No:
Project Number: W912QR-10-P-0037	Shipping/Tracking No:			
PO#				Sample Specific Notes / Special Instructions:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	6010 B TAL	8330 B - NON PULV	PROPELLANT	8270C SVOC	8081 PESTICIDE	8082 PCB	8270C-LL (PAH)	7196A CR+6	7471A HG	8260B VOC
LL455-412M-0001-SO	6-26-2011	1120				X																	X			
LL455-414M-0001-SO		1200																					X			
LL455-414M-0002-SO(MS/MSD)		1200																					X			
~~LL455-416M-0001-SO~~		~~1450~~																								
LL455-419M-0001-SO		0915																					X			
LL455-420M-0001-SO		1030																					X			
LL455-421M-0001-SO		1030																					X			
LL455-416M-0001-SO		1400															X	X	X	X	X	X		X	X	
LL455-416M-0002-SO(MS/MSD)		1400															*	X	X	X	X	X				
LL455-417M-0001-SO	6-26-2011	1406				X											X	X	X	X	X	X		X	X	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	PRUDENT	6-27-2011 1600	[signature]	TAL-NC	6/27/11 1600
Relinquished by: [signature]	Company: TAL-NC	Date/Time: 6/27/11 1641	Received by: [signature]	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TAL	Date/Time: 6/27/11 1641

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TAL 0018- 1 (04/10)

10/05/2011

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: NL CANTON
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other RVAAP

TestAmerica Laboratories, Inc.

Client Contact	Client Project Manager:	Site Contact:	Lab Contact:	COC No:
Company Name: PRUDENT TECH	JOHN JENT	John Jent	MARK LORS	014328
Address: ~~5242~~ 5411 E5250 MEDICAL DR	Telephone: ~~502~~ 502-439-8005	Telephone: 502-439-8005	Telephone: 330-497-9396	2 of 2 COCs
City/State/Zip: SAN ANTONIO, TX 78229	Email: JJent@prudentinc.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: 210-822-9588		TAT if different from below ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: LLS1-4,12	Method of Shipment/Carrier: TestAmerica Pickup			Job/SDG No:
Project Number: W912QR-10-P-0037	Shipping/Tracking No:			
PO #				Sample Specific Notes / Special Instructions:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other: MeOH	Filtered Sample (Y/N)	Composite C / Grab G	6010B TAL MOD PULV	8330B PROPELLANTS	8270C SVOC	8081 PEST	8082 PCB	8270C-LL (PAH)	7196 CR6	7474 HG	8260B VOC
LL455-416V-0001-SO	6-26-2011	1410		~~X~~		X								X										X	
LL455-416V-0002-SO(MS/MSD)		1410		X		X								X										X	
LL455-417V-0001-SO		1410				X								X										X	
LL455-306M-0001-SO		1520				X																X			
LL455-305M-0001-SO		1530				X																X			
LL455-303M-0001-SO		1550				X																X			
LL455-304M-0001-SO		1625				X																X			
LL455-304M-0002-SO(MS/MSD)	6-26-2011	1625				X																X			

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	PRUDENT	6-27-2011 1606		TAL-NC	6/27/11 - 1606
Relinquished by:	TAL-NC	6/27/11 - 1641	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL	Date/Time: 6-27-11 1641

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TAL 0018- 1 (04/10)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 240-1585
North Canton Facility

Client Prudent Project LLS1-4.12 By Jeff Clark
Cooler Received on 6.27.11 Opened on 6.28.11 (Signature)
FedEx ☐ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☒ Other ____
TestAmerica Cooler # ____ Multiple Coolers ☒ Foam Box ☐ Client Cooler ☐ Other ____

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒
   If YES, Quantity ____ Quantity Unsalvageable ____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☒
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? ____
2. Shippers' packing slip attached to the cooler(s)? Yes ☐ No ☒
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☐ Foam ☐ None ☒ Other ____
6. Cooler temperature upon receipt ____ °C See back of form for multiple coolers/temps ☒
   METHOD: IR ☒ Other ☐ ____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM ____ Date ____ by ____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning ____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.
Sample(s) ____ were received in a broken container.
Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preserved added to sample(s)? ____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant
L780	5.3	IR	Wet Ice
NO#	4.7	↓	↓

Discrepancies Cont'd:

Login Sample Receipt Checklist

Client: Prudent Technologies, Inc

Job Number: 240-1585-2

Login Number: 1585

List Source: TestAmerica North Canton

List Number: 1

Creator: Sutek, Nick

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	5.3 4.7
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica North Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-1599-1
Client Project/Site: RVAAP

For:
Prudent Technologies, Inc
4242 Medical Drive
Suite 7250
San Antonio, Texas 78229

Attn: Ms. Amanda L. Miller

Authorized for release by:
08/25/2011 02:10:45 PM

Mark Loeb
Project Manager II
mark.loeb@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.
M	Manual integrated compound.
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-1599-1

Laboratory: TestAmerica North Canton

Narrative

CASE NARRATIVE

Client: Prudent Technologies, Inc

Project: RVAAP

Report Number: 240-1599-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

TestAmerica utilizes USEPA approved methods and DOD QSM, where applicable, in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters for which TestAmerica North Canton has certification were evaluated to the limit of detection (LOD) and include qualified results where applicable. Parameters not certified under QSM, if any, were evaluated to the detection limit (DL) and include qualified results where applicable.

The sample(s) that contain constituents flagged with U are undetected. The result associated with this flag is the limit of detection (LOD).

RECEIPT

The samples were received on 06/28/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.8 and 4.2 C.

Sample(s) LL4SB-413M-0103-SO was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC). Will log for PAH 8270 per label on outside of the sample bag.

8270C

Samples LL4SB-411M-0101-SO (240-1599-1), LL4SB-411M-0102-SO (240-1599-2), LL4SB-411M-0103-SO (240-1599-3), LL4SB-407M-0101-SO (240-1599-4), LL4SB-407M-0102-SO (240-1599-5), LL4SB-407M-0103-SO (240-1599-6), LL4SB-410M-0101-SO (240-1599-7), LL4SB-410M-0102-SO (240-1599-8), LL4SB-410M-0103-SO (240-1599-9), LL4SB-415M-0101-SO (240-1599-10),

Job ID: 240-1599-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

LL4SB-415M-0102-SO (240-1599-11), LL4SB-415M-0103-SO (240-1599-12), LL4SB-413M-0101-SO (240-1599-13), LL4SB-413M-0102-SO (240-1599-14) and LL4SB-413M-0103-SO (240-1599-15) were analyzed for 8270C in accordance with EPA SW-846 Method 8270_DoD. The samples were leached on 07/05/2011, prepared on 07/08/2011 and analyzed on 07/27/2011 and 08/01/2011.

For the following samples, an acid surrogate, 2,4,6-Tribromophenol (Surr), failed the surrogate recovery criteria low: LL4SB-411M-0101-SO (240-1599-1), LL4SB-407M-0101-SO (240-1599-4), LL4SB-410M-0101-SO (240-1599-7), and LL4SB-415M-0101-SO (240-1599-10). Because the target compound list for the samples are BN only no corrective action was required. Refer to the QC report for details.

2,4,6-Tribromophenol (Surr), 2-Fluorobiphenyl (Surr), 2-Fluorophenol (Surr), Nitrobenzene-d5 (Surr), Phenol-d5 (Surr) and Terphenyl-d14 (Surr) failed the surrogate recovery criteria low for LL4SB-407M-0103-SO (240-1599-6). Due to the length of time elapsed since sampling no corrective action was initiated.

2,4,6-Tribromophenol (Surr), 2-Fluorobiphenyl (Surr), 2-Fluorophenol (Surr), Nitrobenzene-d5 (Surr) and Phenol-d5 (Surr) failed the surrogate recovery criteria low for LL4SB-415M-0103-SO (240-1599-12). Due to the length of time elapsed since sampling no corrective action was initiated.

The continuing calibration verification (CCV10479/3) for N-nitrosopyrrolidine recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Samples LL4SB-407M-0101-SO (240-1599-4)[10X] and LL4SB-407M-0102-SO (240-1599-5)[2.5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the semivolatiles analyses. All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples LL4SB-411M-0101-SO (240-1599-1), LL4SB-411M-0102-SO (240-1599-2), LL4SB-411M-0103-SO (240-1599-3), LL4SB-407M-0101-SO (240-1599-4), LL4SB-407M-0102-SO (240-1599-5), LL4SB-407M-0103-SO (240-1599-6), LL4SB-410M-0101-SO (240-1599-7), LL4SB-410M-0102-SO (240-1599-8), LL4SB-410M-0103-SO (240-1599-9), LL4SB-415M-0101-SO (240-1599-10), LL4SB-415M-0102-SO (240-1599-11), LL4SB-415M-0103-SO (240-1599-12), LL4SB-413M-0101-SO (240-1599-13), LL4SB-413M-0102-SO (240-1599-14) and LL4SB-413M-0103-SO (240-1599-15) were analyzed for percent solids in accordance with EPA SW846 Method 3550C. The samples were analyzed on 07/05/2011.

No difficulties were encountered during the % solids analyses. All quality control parameters were within the acceptance limits.

Method Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1599-1

Method	Method Description	Protocol	Laboratory
8270C/DoD	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NC
Moisture	Percent Moisture	EPA	TAL NC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1599-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-1599-1	LL4SB-411M-0101-SO	Solid	06/27/11 12:08	06/28/11 16:41
240-1599-2	LL4SB-411M-0102-SO	Solid	06/27/11 12:09	06/28/11 16:41
240-1599-3	LL4SB-411M-0103-SO	Solid	06/27/11 12:10	06/28/11 16:41
240-1599-4	LL4SB-407M-0101-SO	Solid	06/27/11 15:30	06/28/11 16:41
240-1599-5	LL4SB-407M-0102-SO	Solid	06/27/11 15:32	06/28/11 16:41
240-1599-6	LL4SB-407M-0103-SO	Solid	06/27/11 15:34	06/28/11 16:41
240-1599-7	LL4SB-410M-0101-SO	Solid	06/27/11 17:40	06/28/11 16:41
240-1599-8	LL4SB-410M-0102-SO	Solid	06/27/11 17:39	06/28/11 16:41
240-1599-9	LL4SB-410M-0103-SO	Solid	06/27/11 17:36	06/28/11 16:41
240-1599-10	LL4SB-415M-0101-SO	Solid	06/28/11 11:15	06/28/11 16:41
240-1599-11	LL4SB-415M-0102-SO	Solid	06/28/11 11:15	06/28/11 16:41
240-1599-12	LL4SB-415M-0103-SO	Solid	06/28/11 11:15	06/28/11 16:41
240-1599-13	LL4SB-413M-0101-SO	Solid	06/28/11 15:18	06/28/11 16:41
240-1599-14	LL4SB-413M-0102-SO	Solid	06/28/11 15:24	06/28/11 16:41
240-1599-15	LL4SB-413M-0103-SO	Solid	06/28/11 15:25	06/28/11 16:41

Detection Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1599-1

Client Sample ID: LL4SB-411M-0101-SO — Lab Sample ID: 240-1599-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	21		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Anthracene	52		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	160		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	160		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	310	M	6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	130		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	160	M	6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	230		6.7	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	36		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	190		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluorene	7.2		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	110		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	230		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	45		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL4SB-411M-0102-SO — Lab Sample ID: 240-1599-2

No Detections

Client Sample ID: LL4SB-411M-0103-SO — Lab Sample ID: 240-1599-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	6.8		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	22		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	29		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	66	M	6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	25		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	18	M	6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	45		6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	34		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	19		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	35		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	9.6		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL4SB-407M-0101-SO — Lab Sample ID: 240-1599-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	1500	D	68	34	ug/Kg	10	☼	8270C/DoD	Total/NA
Anthracene	2400	D	68	34	ug/Kg	10	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	3300	D	68	34	ug/Kg	10	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	2900	D	68	34	ug/Kg	10	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	3100	D M	68	34	ug/Kg	10	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	1900	D	68	34	ug/Kg	10	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	1900	D M	68	34	ug/Kg	10	☼	8270C/DoD	Total/NA
Chrysene	3000	D	68	11	ug/Kg	10	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	380	D	68	34	ug/Kg	10	☼	8270C/DoD	Total/NA
Fluoranthene	10000	D	68	34	ug/Kg	10	☼	8270C/DoD	Total/NA
Fluorene	1300	D	68	34	ug/Kg	10	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	1600	D	68	34	ug/Kg	10	☼	8270C/DoD	Total/NA
Naphthalene	210	D	68	34	ug/Kg	10	☼	8270C/DoD	Total/NA
Pyrene	7300	D	68	34	ug/Kg	10	☼	8270C/DoD	Total/NA
Phenanthrene	9300	D	68	34	ug/Kg	10	☼	8270C/DoD	Total/NA

Client Sample ID: LL4SB-407M-0102-SO — Lab Sample ID: 240-1599-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	270		17	8.4	ug/Kg	2.5	☼	8270C/DoD	Total/NA
Anthracene	420		17	8.4	ug/Kg	2.5	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	620		17	8.4	ug/Kg	2.5	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	530		17	8.4	ug/Kg	2.5	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	630	M	17	8.4	ug/Kg	2.5	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	360		17	8.4	ug/Kg	2.5	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	320	M	17	8.4	ug/Kg	2.5	☼	8270C/DoD	Total/NA
Chrysene	560		17	2.8	ug/Kg	2.5	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	69		17	8.4	ug/Kg	2.5	☼	8270C/DoD	Total/NA
Fluoranthene	1900		17	8.4	ug/Kg	2.5	☼	8270C/DoD	Total/NA
Fluorene	240		17	8.4	ug/Kg	2.5	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	300		17	8.4	ug/Kg	2.5	☼	8270C/DoD	Total/NA
Naphthalene	38		17	8.4	ug/Kg	2.5	☼	8270C/DoD	Total/NA
Pyrene	1400		17	8.4	ug/Kg	2.5	☼	8270C/DoD	Total/NA
Phenanthrene	1800		17	8.4	ug/Kg	2.5	☼	8270C/DoD	Total/NA

Client Sample ID: LL4SB-407M-0103-SO — Lab Sample ID: 240-1599-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	6.6	J	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	10		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	9.4		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	11		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	7.0	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	11		6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	30		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	23		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	27		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL4SB-410M-0101-SO — Lab Sample ID: 240-1599-7

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	6.7		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	30		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	36		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	66	M	6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	28		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	25	M	6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	51		6.7	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	41		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	23		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	38		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	9.3		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL4SB-410M-0102-SO — Lab Sample ID: 240-1599-8

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	8.3		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	9.5		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	17	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	8.2		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	8.5	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	15		6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	14		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL4SB-410M-0102-SO (Continued) — Lab Sample ID: 240-1599-8

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	7.2	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	14		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	7.1		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL4SB-410M-0103-SO — Lab Sample ID: 240-1599-9

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	12		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Acenaphthylene	55		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Anthracene	150		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	560		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	570		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	1100	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	450		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	500	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	880		6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	160		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	850		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluorene	22		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	390		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	830		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	210		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL4SB-415M-0101-SO — Lab Sample ID: 240-1599-10

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	9.3	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	7.2		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL4SB-415M-0102-SO — Lab Sample ID: 240-1599-11

No Detections

Client Sample ID: LL4SB-415M-0103-SO — Lab Sample ID: 240-1599-12

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	80		68	33	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	95		68	33	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	77		68	33	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	87		68	33	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	95		68	33	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	89		68	33	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	87		68	11	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	87		68	33	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluorene	71		68	33	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	73		68	33	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	88		68	33	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	84		68	33	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL4SB-413M-0101-SO — Lab Sample ID: 240-1599-13

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	7.6		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	14		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL4SB-413M-0101-SO (Continued) — Lab Sample ID: 240-1599-13

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	17	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	17		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	7.0	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	8.1		6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	11		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	14		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	10		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL4SB-413M-0102-SO — Lab Sample ID: 240-1599-14

No Detections

Client Sample ID: LL4SB-413M-0103-SO — Lab Sample ID: 240-1599-15

No Detections

Client Sample ID: LL4SB-411M-0101-SO

Date Collected: 06/27/11 12:08
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-1

Matrix: Solid
Percent Solids: 98.8

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:25	1
Acenaphthylene	**21**		6.7	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:25	1
Anthracene	**52**		6.7	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:25	1
Benzo[a]anthracene	**160**		6.7	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:25	1
Benzo[a]pyrene	**160**		6.7	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:25	1
Benzo[b]fluoranthene	**310**	**M**	6.7	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:25	1
Benzo[g,h,i]perylene	**130**		6.7	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:25	1
Benzo[k]fluoranthene	**160**	**M**	6.7	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:25	1
Chrysene	**230**		6.7	1.1	ug/Kg	☼	07/08/11 11:44	07/27/11 16:25	1
Dibenz(a,h)anthracene	**36**		6.7	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:25	1
Fluoranthene	**190**		6.7	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:25	1
Fluorene	**7.2**		6.7	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:25	1
Indeno[1,2,3-cd]pyrene	**110**		6.7	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:25	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:25	1
Pyrene	**230**		6.7	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:25	1
Phenanthrene	**45**		6.7	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:25	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*50*		*45 - 105*	*07/08/11 11:44*	*07/27/11 16:25*	*1*
2-Fluorophenol (Surr)	*59*		*35 - 105*	*07/08/11 11:44*	*07/27/11 16:25*	*1*
Nitrobenzene-d5 (Surr)	*50*		*35 - 100*	*07/08/11 11:44*	*07/27/11 16:25*	*1*
Terphenyl-d14 (Surr)	*64*		*30 - 125*	*07/08/11 11:44*	*07/27/11 16:25*	*1*
2,4,6-Tribromophenol (Surr)	*32*	*Q*	*35 - 125*	*07/08/11 11:44*	*07/27/11 16:25*	*1*
Phenol-d5 (Surr)	*61*		*40 - 100*	*07/08/11 11:44*	*07/27/11 16:25*	*1*

Client Sample ID: LL4SB-411M-0102-SO

Date Collected: 06/27/11 12:09
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-2

Matrix: Solid
Percent Solids: 98.0

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:21	1
Acenaphthylene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:21	1
Anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:21	1
Benzo[a]anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:21	1
Benzo[a]pyrene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:21	1
Benzo[b]fluoranthene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:21	1
Benzo[g,h,i]perylene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:21	1
Benzo[k]fluoranthene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:21	1
Chrysene	3.4	U	6.8	1.1	ug/Kg	☼	07/08/11 11:44	07/27/11 12:21	1
Dibenz(a,h)anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:21	1
Fluoranthene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:21	1
Fluorene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:21	1
Indeno[1,2,3-cd]pyrene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:21	1
Naphthalene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:21	1
Pyrene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:21	1
Phenanthrene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:21	1

Client Sample ID: LL4SB-411M-0102-SO

Date Collected: 06/27/11 12:09
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-2

Matrix: Solid
Percent Solids: 98.0

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	54		45 - 105	07/08/11 11:44	07/27/11 12:21	1
2-Fluorophenol (Surr)	67		35 - 105	07/08/11 11:44	07/27/11 12:21	1
Nitrobenzene-d5 (Surr)	58		35 - 100	07/08/11 11:44	07/27/11 12:21	1
Terphenyl-d14 (Surr)	68		30 - 125	07/08/11 11:44	07/27/11 12:21	1
2,4,6-Tribromophenol (Surr)	41		35 - 125	07/08/11 11:44	07/27/11 12:21	1
Phenol-d5 (Surr)	67		40 - 100	07/08/11 11:44	07/27/11 12:21	1

Client Sample ID: LL4SB-411M-0103-SO

Date Collected: 06/27/11 12:10
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-3

Matrix: Solid
Percent Solids: 98.4

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.8	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:06	1
Acenaphthylene	3.3	U	6.8	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:06	1
Anthracene	**6.8**		6.8	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:06	1
Benzo[a]anthracene	**22**		6.8	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:06	1
Benzo[a]pyrene	**29**		6.8	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:06	1
Benzo[b]fluoranthene	**66**	**M**	6.8	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:06	1
Benzo[g,h,i]perylene	**25**		6.8	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:06	1
Benzo[k]fluoranthene	**18**	**M**	6.8	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:06	1
Chrysene	**45**		6.8	1.1	ug/Kg	☼	07/08/11 11:44	07/27/11 16:06	1
Dibenz(a,h)anthracene	3.3	U	6.8	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:06	1
Fluoranthene	**34**		6.8	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:06	1
Fluorene	3.3	U	6.8	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:06	1
Indeno[1,2,3-cd]pyrene	**19**		6.8	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:06	1
Naphthalene	3.3	U	6.8	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:06	1
Pyrene	**35**		6.8	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:06	1
Phenanthrene	**9.6**		6.8	3.3	ug/Kg	☼	07/08/11 11:44	07/27/11 16:06	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	52		45 - 105	07/08/11 11:44	07/27/11 16:06	1
2-Fluorophenol (Surr)	62		35 - 105	07/08/11 11:44	07/27/11 16:06	1
Nitrobenzene-d5 (Surr)	54		35 - 100	07/08/11 11:44	07/27/11 16:06	1
Terphenyl-d14 (Surr)	68		30 - 125	07/08/11 11:44	07/27/11 16:06	1
2,4,6-Tribromophenol (Surr)	38		35 - 125	07/08/11 11:44	07/27/11 16:06	1
Phenol-d5 (Surr)	63		40 - 100	07/08/11 11:44	07/27/11 16:06	1

Client Sample ID: LL4SB-407M-0101-SO

Date Collected: 06/27/11 15:30
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-4

Matrix: Solid
Percent Solids: 97.9

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**1500**	**D**	68	34	ug/Kg	☼	07/08/11 11:44	07/27/11 17:03	10
Acenaphthylene	34	U	68	34	ug/Kg	☼	07/08/11 11:44	07/27/11 17:03	10
Anthracene	**2400**	**D**	68	34	ug/Kg	☼	07/08/11 11:44	07/27/11 17:03	10
Benzo[a]anthracene	**3300**	**D**	68	34	ug/Kg	☼	07/08/11 11:44	07/27/11 17:03	10

Client Sample ID: LL4SB-407M-0101-SO

Date Collected: 06/27/11 15:30
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-4

Matrix: Solid
Percent Solids: 97.9

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	2900	D	68	34	ug/Kg	☼	07/08/11 11:44	07/27/11 17:03	10
Benzo[b]fluoranthene	3100	D M	68	34	ug/Kg	☼	07/08/11 11:44	07/27/11 17:03	10
Benzo[g,h,i]perylene	1900	D	68	34	ug/Kg	☼	07/08/11 11:44	07/27/11 17:03	10
Benzo[k]fluoranthene	1900	D M	68	34	ug/Kg	☼	07/08/11 11:44	07/27/11 17:03	10
Chrysene	3000	D	68	11	ug/Kg	☼	07/08/11 11:44	07/27/11 17:03	10
Dibenz(a,h)anthracene	380	D	68	34	ug/Kg	☼	07/08/11 11:44	07/27/11 17:03	10
Fluoranthene	10000	D	68	34	ug/Kg	☼	07/08/11 11:44	07/27/11 17:03	10
Fluorene	1300	D	68	34	ug/Kg	☼	07/08/11 11:44	07/27/11 17:03	10
Indeno[1,2,3-cd]pyrene	1600	D	68	34	ug/Kg	☼	07/08/11 11:44	07/27/11 17:03	10
Naphthalene	210	D	68	34	ug/Kg	☼	07/08/11 11:44	07/27/11 17:03	10
Pyrene	7300	D	68	34	ug/Kg	☼	07/08/11 11:44	07/27/11 17:03	10
Phenanthrene	9300	D	68	34	ug/Kg	☼	07/08/11 11:44	07/27/11 17:03	10

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*56*		*45 - 105*	*07/08/11 11:44*	*07/27/11 17:03*	*10*
2-Fluorophenol (Surr)	*64*		*35 - 105*	*07/08/11 11:44*	*07/27/11 17:03*	*10*
Nitrobenzene-d5 (Surr)	*55*		*35 - 100*	*07/08/11 11:44*	*07/27/11 17:03*	*10*
Terphenyl-d14 (Surr)	*71*		*30 - 125*	*07/08/11 11:44*	*07/27/11 17:03*	*10*
2,4,6-Tribromophenol (Surr)	*28*	*Q*	*35 - 125*	*07/08/11 11:44*	*07/27/11 17:03*	*10*
Phenol-d5 (Surr)	*61*		*40 - 100*	*07/08/11 11:44*	*07/27/11 17:03*	*10*

Client Sample ID: LL4SB-407M-0102-SO

Date Collected: 06/27/11 15:32
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-5

Matrix: Solid
Percent Solids: 97.8

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	270		17	8.4	ug/Kg	☼	07/08/11 11:44	07/27/11 17:22	2.5
Acenaphthylene	8.4	U	17	8.4	ug/Kg	☼	07/08/11 11:44	07/27/11 17:22	2.5
Anthracene	420		17	8.4	ug/Kg	☼	07/08/11 11:44	07/27/11 17:22	2.5
Benzo[a]anthracene	620		17	8.4	ug/Kg	☼	07/08/11 11:44	07/27/11 17:22	2.5
Benzo[a]pyrene	530		17	8.4	ug/Kg	☼	07/08/11 11:44	07/27/11 17:22	2.5
Benzo[b]fluoranthene	630	M	17	8.4	ug/Kg	☼	07/08/11 11:44	07/27/11 17:22	2.5
Benzo[g,h,i]perylene	360		17	8.4	ug/Kg	☼	07/08/11 11:44	07/27/11 17:22	2.5
Benzo[k]fluoranthene	320	M	17	8.4	ug/Kg	☼	07/08/11 11:44	07/27/11 17:22	2.5
Chrysene	560		17	2.8	ug/Kg	☼	07/08/11 11:44	07/27/11 17:22	2.5
Dibenz(a,h)anthracene	69		17	8.4	ug/Kg	☼	07/08/11 11:44	07/27/11 17:22	2.5
Fluoranthene	1900		17	8.4	ug/Kg	☼	07/08/11 11:44	07/27/11 17:22	2.5
Fluorene	240		17	8.4	ug/Kg	☼	07/08/11 11:44	07/27/11 17:22	2.5
Indeno[1,2,3-cd]pyrene	300		17	8.4	ug/Kg	☼	07/08/11 11:44	07/27/11 17:22	2.5
Naphthalene	38		17	8.4	ug/Kg	☼	07/08/11 11:44	07/27/11 17:22	2.5
Pyrene	1400		17	8.4	ug/Kg	☼	07/08/11 11:44	07/27/11 17:22	2.5
Phenanthrene	1800		17	8.4	ug/Kg	☼	07/08/11 11:44	07/27/11 17:22	2.5

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*56*		*45 - 105*	*07/08/11 11:44*	*07/27/11 17:22*	*2.5*
2-Fluorophenol (Surr)	*62*		*35 - 105*	*07/08/11 11:44*	*07/27/11 17:22*	*2.5*
Nitrobenzene-d5 (Surr)	*57*		*35 - 100*	*07/08/11 11:44*	*07/27/11 17:22*	*2.5*
Terphenyl-d14 (Surr)	*67*		*30 - 125*	*07/08/11 11:44*	*07/27/11 17:22*	*2.5*

Client Sample ID: LL4SB-407M-0102-SO

Date Collected: 06/27/11 15:32
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-5

Matrix: Solid
Percent Solids: 97.8

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*36*		*35 - 125*	*07/08/11 11:44*	*07/27/11 17:22*	*2.5*
Phenol-d5 (Surr)	*65*		*40 - 100*	*07/08/11 11:44*	*07/27/11 17:22*	*2.5*

Client Sample ID: LL4SB-407M-0103-SO

Date Collected: 06/27/11 15:34
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-6

Matrix: Solid
Percent Solids: 98.5

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:39	1
Acenaphthylene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:39	1
Anthracene	**6.6**	**J**	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:39	1
Benzo[a]anthracene	**10**		6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:39	1
Benzo[a]pyrene	**9.4**		6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:39	1
Benzo[b]fluoranthene	**11**		6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:39	1
Benzo[g,h,i]perylene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:39	1
Benzo[k]fluoranthene	**7.0**	**M**	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:39	1
Chrysene	**11**		6.8	1.1	ug/Kg	☼	07/08/11 11:44	07/27/11 12:39	1
Dibenz(a,h)anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:39	1
Fluoranthene	**30**		6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:39	1
Fluorene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:39	1
Indeno[1,2,3-cd]pyrene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:39	1
Naphthalene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:39	1
Pyrene	**23**		6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:39	1
Phenanthrene	**27**		6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 12:39	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*13*	*Q*	*45 - 105*	*07/08/11 11:44*	*07/27/11 12:39*	*1*
2-Fluorophenol (Surr)	*17*	*Q*	*35 - 105*	*07/08/11 11:44*	*07/27/11 12:39*	*1*
Nitrobenzene-d5 (Surr)	*15*	*Q*	*35 - 100*	*07/08/11 11:44*	*07/27/11 12:39*	*1*
Terphenyl-d14 (Surr)	*18*	*Q*	*30 - 125*	*07/08/11 11:44*	*07/27/11 12:39*	*1*
2,4,6-Tribromophenol (Surr)	*8*	*Q*	*35 - 125*	*07/08/11 11:44*	*07/27/11 12:39*	*1*
Phenol-d5 (Surr)	*18*	*Q*	*40 - 100*	*07/08/11 11:44*	*07/27/11 12:39*	*1*

Client Sample ID: LL4SB-410M-0101-SO

Date Collected: 06/27/11 17:40
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-7

Matrix: Solid
Percent Solids: 99.2

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg	☼	07/08/11 11:44	08/01/11 11:39	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg	☼	07/08/11 11:44	08/01/11 11:39	1
Anthracene	**6.7**		6.7	3.3	ug/Kg	☼	07/08/11 11:44	08/01/11 11:39	1
Benzo[a]anthracene	**30**		6.7	3.3	ug/Kg	☼	07/08/11 11:44	08/01/11 11:39	1
Benzo[a]pyrene	**36**		6.7	3.3	ug/Kg	☼	07/08/11 11:44	08/01/11 11:39	1
Benzo[b]fluoranthene	**66**	**M**	6.7	3.3	ug/Kg	☼	07/08/11 11:44	08/01/11 11:39	1
Benzo[g,h,i]perylene	**28**		6.7	3.3	ug/Kg	☼	07/08/11 11:44	08/01/11 11:39	1

Client Sample ID: LL4SB-410M-0101-SO

Date Collected: 06/27/11 17:40
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-7

Matrix: Solid
Percent Solids: 99.2

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**25**	**M**	6.7	3.3	ug/Kg	☼	07/08/11 11:44	08/01/11 11:39	1
Chrysene	**51**		6.7	1.1	ug/Kg	☼	07/08/11 11:44	08/01/11 11:39	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/08/11 11:44	08/01/11 11:39	1
Fluoranthene	**41**		6.7	3.3	ug/Kg	☼	07/08/11 11:44	08/01/11 11:39	1
Fluorene	3.3	U	6.7	3.3	ug/Kg	☼	07/08/11 11:44	08/01/11 11:39	1
Indeno[1,2,3-cd]pyrene	**23**		6.7	3.3	ug/Kg	☼	07/08/11 11:44	08/01/11 11:39	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg	☼	07/08/11 11:44	08/01/11 11:39	1
Pyrene	**38**		6.7	3.3	ug/Kg	☼	07/08/11 11:44	08/01/11 11:39	1
Phenanthrene	**9.3**		6.7	3.3	ug/Kg	☼	07/08/11 11:44	08/01/11 11:39	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*48*		*45 - 105*	*07/08/11 11:44*	*08/01/11 11:39*	*1*
2-Fluorophenol (Surr)	*58*		*35 - 105*	*07/08/11 11:44*	*08/01/11 11:39*	*1*
Nitrobenzene-d5 (Surr)	*49*		*35 - 100*	*07/08/11 11:44*	*08/01/11 11:39*	*1*
Terphenyl-d14 (Surr)	*67*		*30 - 125*	*07/08/11 11:44*	*08/01/11 11:39*	*1*
2,4,6-Tribromophenol (Surr)	*27*	*Q*	*35 - 125*	*07/08/11 11:44*	*08/01/11 11:39*	*1*
Phenol-d5 (Surr)	*63*		*40 - 100*	*07/08/11 11:44*	*08/01/11 11:39*	*1*

Client Sample ID: LL4SB-410M-0102-SO

Date Collected: 06/27/11 17:39
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-8

Matrix: Solid
Percent Solids: 98.2

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:20	1
Acenaphthylene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:20	1
Anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:20	1
Benzo[a]anthracene	**8.3**		6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:20	1
Benzo[a]pyrene	**9.5**		6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:20	1
Benzo[b]fluoranthene	**17**	**M**	6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:20	1
Benzo[g,h,i]perylene	**8.2**		6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:20	1
Benzo[k]fluoranthene	**8.5**	**M**	6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:20	1
Chrysene	**15**		6.8	1.1	ug/Kg	☼	07/08/11 11:44	08/01/11 11:20	1
Dibenz(a,h)anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:20	1
Fluoranthene	**14**		6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:20	1
Fluorene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:20	1
Indeno[1,2,3-cd]pyrene	**7.2**	**M**	6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:20	1
Naphthalene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:20	1
Pyrene	**14**		6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:20	1
Phenanthrene	**7.1**		6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:20	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*51*		*45 - 105*	*07/08/11 11:44*	*08/01/11 11:20*	*1*
2-Fluorophenol (Surr)	*65*		*35 - 105*	*07/08/11 11:44*	*08/01/11 11:20*	*1*
Nitrobenzene-d5 (Surr)	*52*		*35 - 100*	*07/08/11 11:44*	*08/01/11 11:20*	*1*
Terphenyl-d14 (Surr)	*69*		*30 - 125*	*07/08/11 11:44*	*08/01/11 11:20*	*1*
2,4,6-Tribromophenol (Surr)	*38*		*35 - 125*	*07/08/11 11:44*	*08/01/11 11:20*	*1*
Phenol-d5 (Surr)	*66*		*40 - 100*	*07/08/11 11:44*	*08/01/11 11:20*	*1*

Client Sample ID: LL4SB-410M-0103-SO
Date Collected: 06/27/11 17:36
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-9
Matrix: Solid
Percent Solids: 98.2

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	12		6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:58	1
Acenaphthylene	55		6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:58	1
Anthracene	150		6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:58	1
Benzo[a]anthracene	560		6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:58	1
Benzo[a]pyrene	570		6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:58	1
Benzo[b]fluoranthene	1100	M	6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:58	1
Benzo[g,h,i]perylene	450		6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:58	1
Benzo[k]fluoranthene	500	M	6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:58	1
Chrysene	880		6.8	1.1	ug/Kg	☼	07/08/11 11:44	08/01/11 11:58	1
Dibenz(a,h)anthracene	160		6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:58	1
Fluoranthene	850		6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:58	1
Fluorene	22		6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:58	1
Indeno[1,2,3-cd]pyrene	390		6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:58	1
Naphthalene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:58	1
Pyrene	830		6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:58	1
Phenanthrene	210		6.8	3.4	ug/Kg	☼	07/08/11 11:44	08/01/11 11:58	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*53*		*45 - 105*	*07/08/11 11:44*	*08/01/11 11:58*	*1*
2-Fluorophenol (Surr)	*68*		*35 - 105*	*07/08/11 11:44*	*08/01/11 11:58*	*1*
Nitrobenzene-d5 (Surr)	*52*		*35 - 100*	*07/08/11 11:44*	*08/01/11 11:58*	*1*
Terphenyl-d14 (Surr)	*70*		*30 - 125*	*07/08/11 11:44*	*08/01/11 11:58*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*35 - 125*	*07/08/11 11:44*	*08/01/11 11:58*	*1*
Phenol-d5 (Surr)	*77*		*40 - 100*	*07/08/11 11:44*	*08/01/11 11:58*	*1*

Client Sample ID: LL4SB-415M-0101-SO
Date Collected: 06/28/11 11:15
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-10
Matrix: Solid
Percent Solids: 97.7

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:36	1
Acenaphthylene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:36	1
Anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:36	1
Benzo[a]anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:36	1
Benzo[a]pyrene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:36	1
Benzo[b]fluoranthene	9.3	M	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:36	1
Benzo[g,h,i]perylene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:36	1
Benzo[k]fluoranthene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:36	1
Chrysene	3.4	U	6.8	1.1	ug/Kg	☼	07/08/11 11:44	07/27/11 13:36	1
Dibenz(a,h)anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:36	1
Fluoranthene	7.2		6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:36	1
Fluorene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:36	1
Indeno[1,2,3-cd]pyrene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:36	1
Naphthalene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:36	1
Pyrene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:36	1
Phenanthrene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:36	1

Client Sample ID: LL4SB-415M-0101-SO

Date Collected: 06/28/11 11:15
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-10

Matrix: Solid
Percent Solids: 97.7

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	52		45 - 105	07/08/11 11:44	07/27/11 13:36	1
2-Fluorophenol (Surr)	61		35 - 105	07/08/11 11:44	07/27/11 13:36	1
Nitrobenzene-d5 (Surr)	52		35 - 100	07/08/11 11:44	07/27/11 13:36	1
Terphenyl-d14 (Surr)	64		30 - 125	07/08/11 11:44	07/27/11 13:36	1
2,4,6-Tribromophenol (Surr)	32	Q M	35 - 125	07/08/11 11:44	07/27/11 13:36	1
Phenol-d5 (Surr)	64		40 - 100	07/08/11 11:44	07/27/11 13:36	1

Client Sample ID: LL4SB-415M-0102-SO

Date Collected: 06/28/11 11:15
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-11

Matrix: Solid
Percent Solids: 96.1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.4	U	6.9	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:55	1
Acenaphthylene	3.4	U	6.9	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:55	1
Anthracene	3.4	U	6.9	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:55	1
Benzo[a]anthracene	3.4	U	6.9	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:55	1
Benzo[a]pyrene	3.4	U	6.9	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:55	1
Benzo[b]fluoranthene	3.4	U	6.9	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:55	1
Benzo[g,h,i]perylene	3.4	U	6.9	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:55	1
Benzo[k]fluoranthene	3.4	U	6.9	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:55	1
Chrysene	3.4	U	6.9	1.1	ug/Kg	☼	07/08/11 11:44	07/27/11 13:55	1
Dibenz(a,h)anthracene	3.4	U	6.9	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:55	1
Fluoranthene	3.4	U	6.9	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:55	1
Fluorene	3.4	U	6.9	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:55	1
Indeno[1,2,3-cd]pyrene	3.4	U	6.9	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:55	1
Naphthalene	3.4	U	6.9	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:55	1
Pyrene	3.4	U	6.9	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:55	1
Phenanthrene	3.4	U	6.9	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 13:55	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	46		45 - 105	07/08/11 11:44	07/27/11 13:55	1
2-Fluorophenol (Surr)	55		35 - 105	07/08/11 11:44	07/27/11 13:55	1
Nitrobenzene-d5 (Surr)	45		35 - 100	07/08/11 11:44	07/27/11 13:55	1
Terphenyl-d14 (Surr)	69		30 - 125	07/08/11 11:44	07/27/11 13:55	1
2,4,6-Tribromophenol (Surr)	43		35 - 125	07/08/11 11:44	07/27/11 13:55	1
Phenol-d5 (Surr)	58		40 - 100	07/08/11 11:44	07/27/11 13:55	1

Client Sample ID: LL4SB-415M-0103-SO

Date Collected: 06/28/11 11:15
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-12

Matrix: Solid
Percent Solids: 97.2

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	33	U	68	33	ug/Kg	☼	07/08/11 11:44	07/27/11 15:10	1
Acenaphthylene	33	U	68	33	ug/Kg	☼	07/08/11 11:44	07/27/11 15:10	1
Anthracene	**80**		68	33	ug/Kg	☼	07/08/11 11:44	07/27/11 15:10	1
Benzo[a]anthracene	**95**		68	33	ug/Kg	☼	07/08/11 11:44	07/27/11 15:10	1

Client Sample ID: LL4SB-415M-0103-SO

Date Collected: 06/28/11 11:15
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-12

Matrix: Solid
Percent Solids: 97.2

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**77**		68	33	ug/Kg	☼	07/08/11 11:44	07/27/11 15:10	1
Benzo[b]fluoranthene	**87**		68	33	ug/Kg	☼	07/08/11 11:44	07/27/11 15:10	1
Benzo[g,h,i]perylene	**95**		68	33	ug/Kg	☼	07/08/11 11:44	07/27/11 15:10	1
Benzo[k]fluoranthene	**89**		68	33	ug/Kg	☼	07/08/11 11:44	07/27/11 15:10	1
Chrysene	**87**		68	11	ug/Kg	☼	07/08/11 11:44	07/27/11 15:10	1
Dibenz(a,h)anthracene	33	U	68	33	ug/Kg	☼	07/08/11 11:44	07/27/11 15:10	1
Fluoranthene	**87**		68	33	ug/Kg	☼	07/08/11 11:44	07/27/11 15:10	1
Fluorene	**71**		68	33	ug/Kg	☼	07/08/11 11:44	07/27/11 15:10	1
Indeno[1,2,3-cd]pyrene	**73**		68	33	ug/Kg	☼	07/08/11 11:44	07/27/11 15:10	1
Naphthalene	33	U	68	33	ug/Kg	☼	07/08/11 11:44	07/27/11 15:10	1
Pyrene	**88**		68	33	ug/Kg	☼	07/08/11 11:44	07/27/11 15:10	1
Phenanthrene	**84**		68	33	ug/Kg	☼	07/08/11 11:44	07/27/11 15:10	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*22*	*Q*	*45 - 105*	*07/08/11 11:44*	*07/27/11 15:10*	*1*
2-Fluorophenol (Surr)	*28*	*Q*	*35 - 105*	*07/08/11 11:44*	*07/27/11 15:10*	*1*
Nitrobenzene-d5 (Surr)	*23*	*Q*	*35 - 100*	*07/08/11 11:44*	*07/27/11 15:10*	*1*
Terphenyl-d14 (Surr)	*32*		*30 - 125*	*07/08/11 11:44*	*07/27/11 15:10*	*1*
2,4,6-Tribromophenol (Surr)	*18*	*Q*	*35 - 125*	*07/08/11 11:44*	*07/27/11 15:10*	*1*
Phenol-d5 (Surr)	*28*	*Q*	*40 - 100*	*07/08/11 11:44*	*07/27/11 15:10*	*1*

Client Sample ID: LL4SB-413M-0101-SO

Date Collected: 06/28/11 15:18
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-13

Matrix: Solid
Percent Solids: 98.2

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:29	1
Acenaphthylene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:29	1
Anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:29	1
Benzo[a]anthracene	**7.6**		6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:29	1
Benzo[a]pyrene	**14**		6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:29	1
Benzo[b]fluoranthene	**17**	**M**	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:29	1
Benzo[g,h,i]perylene	**17**		6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:29	1
Benzo[k]fluoranthene	**7.0**	**M**	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:29	1
Chrysene	**8.1**		6.8	1.1	ug/Kg	☼	07/08/11 11:44	07/27/11 15:29	1
Dibenz(a,h)anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:29	1
Fluoranthene	**11**		6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:29	1
Fluorene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:29	1
Indeno[1,2,3-cd]pyrene	**14**		6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:29	1
Naphthalene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:29	1
Pyrene	**10**		6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:29	1
Phenanthrene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:29	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*48*		*45 - 105*	*07/08/11 11:44*	*07/27/11 15:29*	*1*
2-Fluorophenol (Surr)	*58*		*35 - 105*	*07/08/11 11:44*	*07/27/11 15:29*	*1*
Nitrobenzene-d5 (Surr)	*47*		*35 - 100*	*07/08/11 11:44*	*07/27/11 15:29*	*1*
Terphenyl-d14 (Surr)	*66*		*30 - 125*	*07/08/11 11:44*	*07/27/11 15:29*	*1*

Client Sample ID: LL4SB-413M-0101-SO

Date Collected: 06/28/11 15:18
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-13
Matrix: Solid
Percent Solids: 98.2

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*48*		*35 - 125*	*07/08/11 11:44*	*07/27/11 15:29*	*1*
Phenol-d5 (Surr)	*60*		*40 - 100*	*07/08/11 11:44*	*07/27/11 15:29*	*1*

Client Sample ID: LL4SB-413M-0102-SO

Date Collected: 06/28/11 15:24
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-14
Matrix: Solid
Percent Solids: 97.7

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:48	1
Acenaphthylene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:48	1
Anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:48	1
Benzo[a]anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:48	1
Benzo[a]pyrene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:48	1
Benzo[b]fluoranthene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:48	1
Benzo[g,h,i]perylene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:48	1
Benzo[k]fluoranthene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:48	1
Chrysene	3.4	U	6.8	1.1	ug/Kg	☼	07/08/11 11:44	07/27/11 15:48	1
Dibenz(a,h)anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:48	1
Fluoranthene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:48	1
Fluorene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:48	1
Indeno[1,2,3-cd]pyrene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:48	1
Naphthalene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:48	1
Pyrene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:48	1
Phenanthrene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 15:48	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*49*		*45 - 105*	*07/08/11 11:44*	*07/27/11 15:48*	*1*
2-Fluorophenol (Surr)	*55*		*35 - 105*	*07/08/11 11:44*	*07/27/11 15:48*	*1*
Nitrobenzene-d5 (Surr)	*47*		*35 - 100*	*07/08/11 11:44*	*07/27/11 15:48*	*1*
Terphenyl-d14 (Surr)	*69*		*30 - 125*	*07/08/11 11:44*	*07/27/11 15:48*	*1*
2,4,6-Tribromophenol (Surr)	*36*		*35 - 125*	*07/08/11 11:44*	*07/27/11 15:48*	*1*
Phenol-d5 (Surr)	*58*		*40 - 100*	*07/08/11 11:44*	*07/27/11 15:48*	*1*

Client Sample ID: LL4SB-413M-0103-SO

Date Collected: 06/28/11 15:25
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-15
Matrix: Solid
Percent Solids: 97.8

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 14:14	1
Acenaphthylene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 14:14	1
Anthracene	3.4	U J	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 14:14	1
Benzo[a]anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 14:14	1
Benzo[a]pyrene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 14:14	1
Benzo[b]fluoranthene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 14:14	1
Benzo[g,h,i]perylene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 14:14	1

Client Sample ID: LL4SB-413M-0103-SO
Date Collected: 06/28/11 15:25
Date Received: 06/28/11 16:41

Lab Sample ID: 240-1599-15
Matrix: Solid
Percent Solids: 97.8

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 14:14	1
Chrysene	3.4	U	6.8	1.1	ug/Kg	☼	07/08/11 11:44	07/27/11 14:14	1
Dibenz(a,h)anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 14:14	1
Fluoranthene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 14:14	1
Fluorene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 14:14	1
Indeno[1,2,3-cd]pyrene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 14:14	1
Naphthalene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 14:14	1
Pyrene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 14:14	1
Phenanthrene	3.4	U	6.8	3.4	ug/Kg	☼	07/08/11 11:44	07/27/11 14:14	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*48*		*45 - 105*	*07/08/11 11:44*	*07/27/11 14:14*	*1*
2-Fluorophenol (Surr)	*70*		*35 - 105*	*07/08/11 11:44*	*07/27/11 14:14*	*1*
Nitrobenzene-d5 (Surr)	*54*		*35 - 100*	*07/08/11 11:44*	*07/27/11 14:14*	*1*
Terphenyl-d14 (Surr)	*67*		*30 - 125*	*07/08/11 11:44*	*07/27/11 14:14*	*1*
2,4,6-Tribromophenol (Surr)	*42*		*35 - 125*	*07/08/11 11:44*	*07/27/11 14:14*	*1*
Phenol-d5 (Surr)	*74*		*40 - 100*	*07/08/11 11:44*	*07/27/11 14:14*	*1*

Surrogate Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1599-1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		FBP	2FP	NBZ	TPH	TBP	PHL		
Lab Sample ID	Client Sample ID	(45-105)	(35-105)	(35-100)	(30-125)	(35-125)	(40-100)		
240-1599-1	LL4SB-411M-0101-SO	50	59	50	64	32 Q	61		
240-1599-2	LL4SB-411M-0102-SO	54	67	58	68	41	67		
240-1599-3	LL4SB-411M-0103-SO	52	62	54	68	38	63		
240-1599-4	LL4SB-407M-0101-SO	56	64	55	71	28 Q	61		
240-1599-5	LL4SB-407M-0102-SO	56	62	57	67	36	65		
240-1599-6	LL4SB-407M-0103-SO	13 Q	17 Q	15 Q	18 Q	8 Q	18 Q		
240-1599-7	LL4SB-410M-0101-SO	48	58	49	67	27 Q	63		
240-1599-8	LL4SB-410M-0102-SO	51	65	52	69	38	66		
240-1599-9	LL4SB-410M-0103-SO	53	68	52	70	60	77		
240-1599-10	LL4SB-415M-0101-SO	52	61	52	64	32 Q M	64		
240-1599-11	LL4SB-415M-0102-SO	46	55	45	69	43	58		
240-1599-12	LL4SB-415M-0103-SO	22 Q	28 Q	23 Q	32	18 Q	28 Q		
240-1599-13	LL4SB-413M-0101-SO	48	58	47	66	48	60		
240-1599-14	LL4SB-413M-0102-SO	49	55	47	69	36	58		
240-1599-15	LL4SB-413M-0103-SO	48	70	54	67	42	74		
240-1599-15 MS	LL4SB-413M-0103-SO	54	56	54	66	35	63		
240-1599-15 MSD	LL4SB-413M-0103-SO	46	59	48	64	45	62		
LCS 240-7706/22-A	Lab Control Sample	48	66	49	66	48	70		
MB 240-7706/21-A	Method Blank	52	65	56	71	48	66		

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
PHL = Phenol-d5 (Surr)

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-7706/21-A
Matrix: Solid
Analysis Batch: 10089

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7706

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Anthracene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Benzo[a]anthracene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Benzo[a]pyrene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Benzo[b]fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Benzo[g,h,i]perylene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Benzo[k]fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Chrysene	3.3	U	6.7	1.1	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Fluorene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Indeno[1,2,3-cd]pyrene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Pyrene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1
Phenanthrene	3.3	U	6.7	3.3	ug/Kg		07/08/11 11:44	07/27/11 11:43	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*52*		*45 - 105*	*07/08/11 11:44*	*07/27/11 11:43*	*1*
2-Fluorophenol (Surr)	*65*		*35 - 105*	*07/08/11 11:44*	*07/27/11 11:43*	*1*
Nitrobenzene-d5 (Surr)	*56*		*35 - 100*	*07/08/11 11:44*	*07/27/11 11:43*	*1*
Terphenyl-d14 (Surr)	*71*		*30 - 125*	*07/08/11 11:44*	*07/27/11 11:43*	*1*
2,4,6-Tribromophenol (Surr)	*48*		*35 - 125*	*07/08/11 11:44*	*07/27/11 11:43*	*1*
Phenol-d5 (Surr)	*66*		*40 - 100*	*07/08/11 11:44*	*07/27/11 11:43*	*1*

Lab Sample ID: LCS 240-7706/22-A
Matrix: Solid
Analysis Batch: 10479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7706

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	667	350		ug/Kg		52	45 - 110
Acenaphthylene	667	377		ug/Kg		57	45 - 105
Anthracene	667	385		ug/Kg		58	55 - 105
Benzo[a]anthracene	667	377		ug/Kg		56	50 - 110
Benzo[a]pyrene	667	356		ug/Kg		53	50 - 110
Benzo[b]fluoranthene	667	351		ug/Kg		53	45 - 115
Benzo[g,h,i]perylene	667	434		ug/Kg		65	40 - 125
Benzo[k]fluoranthene	667	430		ug/Kg		64	45 - 125
Chrysene	667	399		ug/Kg		60	55 - 110
Dibenz(a,h)anthracene	667	432		ug/Kg		65	40 - 125
Fluoranthene	667	411		ug/Kg		62	55 - 115
Fluorene	667	365		ug/Kg		55	50 - 110
Indeno[1,2,3-cd]pyrene	667	429		ug/Kg		64	40 - 120
Naphthalene	667	294		ug/Kg		44	40 - 105
Pyrene	667	392		ug/Kg		59	45 - 125
Phenanthrene	667	374		ug/Kg		56	50 - 110

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*48*		*45 - 105*

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-7706/22-A
Matrix: Solid
Analysis Batch: 10479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7706

Surrogate	LCS % Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	66		35 - 105
Nitrobenzene-d5 (Surr)	49		35 - 100
Terphenyl-d14 (Surr)	66		30 - 125
2,4,6-Tribromophenol (Surr)	48		35 - 125
Phenol-d5 (Surr)	70		40 - 100

Lab Sample ID: 240-1599-15 MS
Matrix: Solid
Analysis Batch: 10089

Client Sample ID: LL4SB-413M-0103-SO
Prep Type: Total/NA
Prep Batch: 7706

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	3.4	U	681	371		ug/Kg	☼	54	45 - 110
Acenaphthylene	3.4	U	681	377		ug/Kg	☼	55	45 - 105
Anthracene	3.4	U J	681	371	J	ug/Kg	☼	54	55 - 105
Benzo[a]anthracene	3.4	U	681	378		ug/Kg	☼	55	50 - 110
Benzo[a]pyrene	3.4	U	681	341		ug/Kg	☼	50	50 - 110
Benzo[b]fluoranthene	3.4	U	681	381		ug/Kg	☼	56	45 - 115
Benzo[g,h,i]perylene	3.4	U	681	410		ug/Kg	☼	60	40 - 125
Benzo[k]fluoranthene	3.4	U	681	390		ug/Kg	☼	57	45 - 125
Chrysene	3.4	U	681	381		ug/Kg	☼	56	55 - 110
Dibenz(a,h)anthracene	3.4	U	681	415		ug/Kg	☼	61	40 - 125
Fluoranthene	3.4	U	681	390		ug/Kg	☼	57	55 - 115
Fluorene	3.4	U	681	392		ug/Kg	☼	57	50 - 110
Indeno[1,2,3-cd]pyrene	3.4	U	681	408		ug/Kg	☼	60	40 - 120
Naphthalene	3.4	U	681	372		ug/Kg	☼	55	40 - 105
Pyrene	3.4	U	681	384		ug/Kg	☼	56	45 - 125
Phenanthrene	3.4	U	681	368		ug/Kg	☼	54	50 - 110

Surrogate	MS % Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	54		45 - 105
2-Fluorophenol (Surr)	56		35 - 105
Nitrobenzene-d5 (Surr)	54		35 - 100
Terphenyl-d14 (Surr)	66		30 - 125
2,4,6-Tribromophenol (Surr)	35		35 - 125
Phenol-d5 (Surr)	63		40 - 100

Lab Sample ID: 240-1599-15 MSD
Matrix: Solid
Analysis Batch: 10089

Client Sample ID: LL4SB-413M-0103-SO
Prep Type: Total/NA
Prep Batch: 7706

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	3.4	U	681	333		ug/Kg	☼	49	45 - 110	11	30
Acenaphthylene	3.4	U	681	338		ug/Kg	☼	50	45 - 105	11	30
Anthracene	3.4	U J	681	373		ug/Kg	☼	55	55 - 105	1	30
Benzo[a]anthracene	3.4	U	681	379		ug/Kg	☼	56	50 - 110	0	30
Benzo[a]pyrene	3.4	U	681	339		ug/Kg	☼	50	50 - 110	1	30
Benzo[b]fluoranthene	3.4	U	681	387		ug/Kg	☼	57	45 - 115	2	30
Benzo[g,h,i]perylene	3.4	U	681	408		ug/Kg	☼	60	40 - 125	0	30
Benzo[k]fluoranthene	3.4	U	681	377		ug/Kg	☼	55	45 - 125	4	30

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-1599-15 MSD
Matrix: Solid
Analysis Batch: 10089

Client Sample ID: LL4SB-413M-0103-SO
Prep Type: Total/NA
Prep Batch: 7706

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chrysene	3.4	U	681	390		ug/Kg	☼	57	55 - 110	2	30
Dibenz(a,h)anthracene	3.4	U	681	412		ug/Kg	☼	60	40 - 125	1	30
Fluoranthene	3.4	U	681	387		ug/Kg	☼	57	55 - 115	1	30
Fluorene	3.4	U	681	363		ug/Kg	☼	53	50 - 110	8	30
Indeno[1,2,3-cd]pyrene	3.4	U	681	408		ug/Kg	☼	60	40 - 120	0	30
Naphthalene	3.4	U	681	328		ug/Kg	☼	48	40 - 105	13	30
Pyrene	3.4	U	681	386		ug/Kg	☼	57	45 - 125	1	30
Phenanthrene	3.4	U	681	367		ug/Kg	☼	54	50 - 110	0	30

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*46*		*45 - 105*
2-Fluorophenol (Surr)	*59*		*35 - 105*
Nitrobenzene-d5 (Surr)	*48*		*35 - 100*
Terphenyl-d14 (Surr)	*64*		*30 - 125*
2,4,6-Tribromophenol (Surr)	*45*		*35 - 125*
Phenol-d5 (Surr)	*62*		*40 - 100*

GC/MS Semi VOA

Leach Batch: 7694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1599-1	LL4SB-411M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1599-2	LL4SB-411M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1599-3	LL4SB-411M-0103-SO	Total/NA	Solid	Increm, Prep	
240-1599-4	LL4SB-407M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1599-5	LL4SB-407M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1599-6	LL4SB-407M-0103-SO	Total/NA	Solid	Increm, Prep	
240-1599-7	LL4SB-410M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1599-8	LL4SB-410M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1599-9	LL4SB-410M-0103-SO	Total/NA	Solid	Increm, Prep	
240-1599-10	LL4SB-415M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1599-11	LL4SB-415M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1599-12	LL4SB-415M-0103-SO	Total/NA	Solid	Increm, Prep	
240-1599-13	LL4SB-413M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1599-14	LL4SB-413M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1599-15	LL4SB-413M-0103-SO	Total/NA	Solid	Increm, Prep	
240-1599-15 MS	LL4SB-413M-0103-SO	Total/NA	Solid	Increm, Prep	
240-1599-15 MSD	LL4SB-413M-0103-SO	Total/NA	Solid	Increm, Prep	

Prep Batch: 7706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1599-1	LL4SB-411M-0101-SO	Total/NA	Solid	3540C	7694
240-1599-15 MS	LL4SB-413M-0103-SO	Total/NA	Solid	3540C	7694
240-1599-15 MSD	LL4SB-413M-0103-SO	Total/NA	Solid	3540C	7694
240-1599-2	LL4SB-411M-0102-SO	Total/NA	Solid	3540C	7694
240-1599-3	LL4SB-411M-0103-SO	Total/NA	Solid	3540C	7694
240-1599-4	LL4SB-407M-0101-SO	Total/NA	Solid	3540C	7694
240-1599-5	LL4SB-407M-0102-SO	Total/NA	Solid	3540C	7694
240-1599-6	LL4SB-407M-0103-SO	Total/NA	Solid	3540C	7694
240-1599-7	LL4SB-410M-0101-SO	Total/NA	Solid	3540C	7694
240-1599-8	LL4SB-410M-0102-SO	Total/NA	Solid	3540C	7694
240-1599-9	LL4SB-410M-0103-SO	Total/NA	Solid	3540C	7694
240-1599-10	LL4SB-415M-0101-SO	Total/NA	Solid	3540C	7694
240-1599-11	LL4SB-415M-0102-SO	Total/NA	Solid	3540C	7694
240-1599-12	LL4SB-415M-0103-SO	Total/NA	Solid	3540C	7694
240-1599-13	LL4SB-413M-0101-SO	Total/NA	Solid	3540C	7694
240-1599-14	LL4SB-413M-0102-SO	Total/NA	Solid	3540C	7694
240-1599-15	LL4SB-413M-0103-SO	Total/NA	Solid	3540C	7694
MB 240-7706/21-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-7706/22-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 10089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-7706/21-A	Method Blank	Total/NA	Solid	8270C/DoD	7706
240-1599-2	LL4SB-411M-0102-SO	Total/NA	Solid	8270C/DoD	7706
240-1599-6	LL4SB-407M-0103-SO	Total/NA	Solid	8270C/DoD	7706
240-1599-10	LL4SB-415M-0101-SO	Total/NA	Solid	8270C/DoD	7706
240-1599-11	LL4SB-415M-0102-SO	Total/NA	Solid	8270C/DoD	7706
240-1599-15	LL4SB-413M-0103-SO	Total/NA	Solid	8270C/DoD	7706
240-1599-15 MS	LL4SB-413M-0103-SO	Total/NA	Solid	8270C/DoD	7706
240-1599-15 MSD	LL4SB-413M-0103-SO	Total/NA	Solid	8270C/DoD	7706
240-1599-12	LL4SB-415M-0103-SO	Total/NA	Solid	8270C/DoD	7706
240-1599-13	LL4SB-413M-0101-SO	Total/NA	Solid	8270C/DoD	7706

GC/MS Semi VOA (Continued)

Analysis Batch: 10089 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1599-14	LL4SB-413M-0102-SO	Total/NA	Solid	8270C/DoD	7706
240-1599-3	LL4SB-411M-0103-SO	Total/NA	Solid	8270C/DoD	7706
240-1599-1	LL4SB-411M-0101-SO	Total/NA	Solid	8270C/DoD	7706
240-1599-4	LL4SB-407M-0101-SO	Total/NA	Solid	8270C/DoD	7706
240-1599-5	LL4SB-407M-0102-SO	Total/NA	Solid	8270C/DoD	7706

Analysis Batch: 10479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-7706/22-A	Lab Control Sample	Total/NA	Solid	8270C/DoD	7706
240-1599-8	LL4SB-410M-0102-SO	Total/NA	Solid	8270C/DoD	7706
240-1599-9	LL4SB-410M-0103-SO	Total/NA	Solid	8270C/DoD	7706
240-1599-7	LL4SB-410M-0101-SO	Total/NA	Solid	8270C/DoD	7706

General Chemistry

Analysis Batch: 7201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1599-1	LL4SB-411M-0101-SO	Total/NA	Solid	Moisture	
240-1599-2	LL4SB-411M-0102-SO	Total/NA	Solid	Moisture	
240-1599-3	LL4SB-411M-0103-SO	Total/NA	Solid	Moisture	
240-1599-4	LL4SB-407M-0101-SO	Total/NA	Solid	Moisture	
240-1599-5	LL4SB-407M-0102-SO	Total/NA	Solid	Moisture	
240-1599-6	LL4SB-407M-0103-SO	Total/NA	Solid	Moisture	
240-1599-7	LL4SB-410M-0101-SO	Total/NA	Solid	Moisture	
240-1599-8	LL4SB-410M-0102-SO	Total/NA	Solid	Moisture	
240-1599-9	LL4SB-410M-0103-SO	Total/NA	Solid	Moisture	
240-1599-10	LL4SB-415M-0101-SO	Total/NA	Solid	Moisture	
240-1599-11	LL4SB-415M-0102-SO	Total/NA	Solid	Moisture	
240-1599-12	LL4SB-415M-0103-SO	Total/NA	Solid	Moisture	
240-1599-13	LL4SB-413M-0101-SO	Total/NA	Solid	Moisture	
240-1599-14	LL4SB-413M-0102-SO	Total/NA	Solid	Moisture	
240-1599-15	LL4SB-413M-0103-SO	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1599-1

Client Sample ID: LL4SB-411M-0101-SO — Lab Sample ID: 240-1599-1

Date Collected: 06/27/11 12:08 — **Matrix: Solid**
Date Received: 06/28/11 16:41 — **Percent Solids: 98.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7694	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7706	07/08/11 11:44	SE	TAL NC
Total/NA	Analysis	8270C/DoD		1	10089	07/27/11 16:25	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 17:23	AM	TAL NC

Client Sample ID: LL4SB-411M-0102-SO — Lab Sample ID: 240-1599-2

Date Collected: 06/27/11 12:09 — **Matrix: Solid**
Date Received: 06/28/11 16:41 — **Percent Solids: 98.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7694	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7706	07/08/11 11:44	SE	TAL NC
Total/NA	Analysis	8270C/DoD		1	10089	07/27/11 12:21	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 17:23	AM	TAL NC

Client Sample ID: LL4SB-411M-0103-SO — Lab Sample ID: 240-1599-3

Date Collected: 06/27/11 12:10 — **Matrix: Solid**
Date Received: 06/28/11 16:41 — **Percent Solids: 98.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7694	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7706	07/08/11 11:44	SE	TAL NC
Total/NA	Analysis	8270C/DoD		1	10089	07/27/11 16:06	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 17:23	AM	TAL NC

Client Sample ID: LL4SB-407M-0101-SO — Lab Sample ID: 240-1599-4

Date Collected: 06/27/11 15:30 — **Matrix: Solid**
Date Received: 06/28/11 16:41 — **Percent Solids: 97.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7694	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7706	07/08/11 11:44	SE	TAL NC
Total/NA	Analysis	8270C/DoD		10	10089	07/27/11 17:03	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 17:23	AM	TAL NC

Client Sample ID: LL4SB-407M-0102-SO — Lab Sample ID: 240-1599-5

Date Collected: 06/27/11 15:32 — **Matrix: Solid**
Date Received: 06/28/11 16:41 — **Percent Solids: 97.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7694	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7706	07/08/11 11:44	SE	TAL NC
Total/NA	Analysis	8270C/DoD		2.5	10089	07/27/11 17:22	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 17:23	AM	TAL NC

Lab Chronicle

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1599-1

Client Sample ID: LL4SB-407M-0103-SO

Lab Sample ID: 240-1599-6

Date Collected: 06/27/11 15:34
Matrix: Solid
Date Received: 06/28/11 16:41
Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7694	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7706	07/08/11 11:44	SE	TAL NC
Total/NA	Analysis	8270C/DoD		1	10089	07/27/11 12:39	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 17:23	AM	TAL NC

Client Sample ID: LL4SB-410M-0101-SO

Lab Sample ID: 240-1599-7

Date Collected: 06/27/11 17:40
Matrix: Solid
Date Received: 06/28/11 16:41
Percent Solids: 99.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7694	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7706	07/08/11 11:44	SE	TAL NC
Total/NA	Analysis	8270C/DoD		1	10479	08/01/11 11:39	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 17:23	AM	TAL NC

Client Sample ID: LL4SB-410M-0102-SO

Lab Sample ID: 240-1599-8

Date Collected: 06/27/11 17:39
Matrix: Solid
Date Received: 06/28/11 16:41
Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7694	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7706	07/08/11 11:44	SE	TAL NC
Total/NA	Analysis	8270C/DoD		1	10479	08/01/11 11:20	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 17:23	AM	TAL NC

Client Sample ID: LL4SB-410M-0103-SO

Lab Sample ID: 240-1599-9

Date Collected: 06/27/11 17:36
Matrix: Solid
Date Received: 06/28/11 16:41
Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7694	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7706	07/08/11 11:44	SE	TAL NC
Total/NA	Analysis	8270C/DoD		1	10479	08/01/11 11:58	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 17:23	AM	TAL NC

Client Sample ID: LL4SB-415M-0101-SO

Lab Sample ID: 240-1599-10

Date Collected: 06/28/11 11:15
Matrix: Solid
Date Received: 06/28/11 16:41
Percent Solids: 97.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7694	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7706	07/08/11 11:44	SE	TAL NC
Total/NA	Analysis	8270C/DoD		1	10089	07/27/11 13:36	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 17:23	AM	TAL NC

Client Sample ID: LL4SB-415M-0102-SO — Lab Sample ID: 240-1599-11

Date Collected: 06/28/11 11:15 — **Matrix: Solid**
Date Received: 06/28/11 16:41 — **Percent Solids: 96.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7694	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7706	07/08/11 11:44	SE	TAL NC
Total/NA	Analysis	8270C/DoD		1	10089	07/27/11 13:55	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 17:28	AM	TAL NC

Client Sample ID: LL4SB-415M-0103-SO — Lab Sample ID: 240-1599-12

Date Collected: 06/28/11 11:15 — **Matrix: Solid**
Date Received: 06/28/11 16:41 — **Percent Solids: 97.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7694	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7706	07/08/11 11:44	SE	TAL NC
Total/NA	Analysis	8270C/DoD		1	10089	07/27/11 15:10	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 17:28	AM	TAL NC

Client Sample ID: LL4SB-413M-0101-SO — Lab Sample ID: 240-1599-13

Date Collected: 06/28/11 15:18 — **Matrix: Solid**
Date Received: 06/28/11 16:41 — **Percent Solids: 98.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7694	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7706	07/08/11 11:44	SE	TAL NC
Total/NA	Analysis	8270C/DoD		1	10089	07/27/11 15:29	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 17:28	AM	TAL NC

Client Sample ID: LL4SB-413M-0102-SO — Lab Sample ID: 240-1599-14

Date Collected: 06/28/11 15:24 — **Matrix: Solid**
Date Received: 06/28/11 16:41 — **Percent Solids: 97.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7694	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7706	07/08/11 11:44	SE	TAL NC
Total/NA	Analysis	8270C/DoD		1	10089	07/27/11 15:48	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 17:28	AM	TAL NC

Client Sample ID: LL4SB-413M-0103-SO — Lab Sample ID: 240-1599-15

Date Collected: 06/28/11 15:25 — **Matrix: Solid**
Date Received: 06/28/11 16:41 — **Percent Solids: 97.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7694	07/05/11 10:00	DJ	TAL NC
Total/NA	Prep	3540C			7706	07/08/11 11:44	SE	TAL NC
Total/NA	Analysis	8270C/DoD		1	10089	07/27/11 14:14	MU	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 17:28	AM	TAL NC

Lab Chronicle

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1599-1

Laboratory References:
TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1599-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica North Canton	ACLASS	DoD ELAP		ADE-1437
TestAmerica North Canton	California	NELAC	9	01144CA
TestAmerica North Canton	Connecticut	State Program	1	PH-0590
TestAmerica North Canton	Florida	NELAC	4	E87225
TestAmerica North Canton	Georgia	Georgia EPD	4	N/A
TestAmerica North Canton	Illinois	NELAC	5	200004
TestAmerica North Canton	Kansas	NELAC	7	E-10336
TestAmerica North Canton	Kentucky	State Program	4	58
TestAmerica North Canton	Minnesota	NELAC	5	039-999-348
TestAmerica North Canton	Nevada	State Program	9	OH-000482008A
TestAmerica North Canton	New Jersey	NELAC	2	OH001
TestAmerica North Canton	New York	NELAC	2	10975
TestAmerica North Canton	Ohio	OVAP	5	CL0024
TestAmerica North Canton	Pennsylvania	NELAC	3	68-00340
TestAmerica North Canton	USDA	USDA		P330-08-00123
TestAmerica North Canton	West Virginia	West Virginia DEP	3	210
TestAmerica North Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: NORTH CANTON
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other RVAAP

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: PRUDENT TECH	Client Project Manager: JOHN JENT	Site Contact: JOHN JENT	Lab Contact: MARK LORB	COC No: 014331
Address: 4242 MEDICAL DR SUITE 5250	Telephone: 502 439-8005	Telephone: 502 439-8005	Telephone: 330-497-9396	1 of 2 COCs
City/State/Zip: SAN ANTONIO, TX 78229	Email: JJent@prudenttech.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: 210 822-9888		TAT if different from below: ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: LLS 1-4, 12	Method of Shipment/Carrier:			Job/SDG No:
Project Number: W912QR-10-P-0037	Shipping/Tracking No:			
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	6010B TAL	7471A HG	7196 CR+6	8330B NON Buty EXPL	PROPELLANTS	8270C SVOC	8081 PESTICIDES	8082 PCBs	8270C-LL (PAH)	8260B VOC	Sample Specific Notes / Special Instructions:
LL45B-411M-0101-50	6-27-2011	1208			X	X										C									X		
LL45B-411M-0102-50		1209			X	X										C									X		
LL45B-411M-0103-50		1210			X	X										C									X		
LL45B-407M-0101-50		1530			X	X										C									X		
LL45B-407M-0102-50		1532			X	X										C									X		
LL45B-407M-0103-50		1534			X	X										C									X		
LL45B-410M-0101-50		1746 ~~1739~~				X										C									X		
LL45B-410M-0102-50		1739				X										C									X		
LL45B-410M-0103-50	6-27-2011	1736				X										C									X		
LL45B-415M-0101-50	6-28-2011	1115				X										C									X		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	PRUDENT	~~6-28-2011~~ 6-28-2011 1600		TAL-NC	6/28/11 1600
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TAL-NC	6/28/11 1641			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TAL	6-28-11 1641

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TAL 0018-1 (04/10)

08/25/2011

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: NORTH CANTON, OH
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other RCRAP

TestAmerica Laboratories, Inc.

Client Contact	Client Project Manager:	Site Contact:	Lab Contact:	COC No:
Company Name: PRUDENT TECH	JOHN JENT	John Jent	MARK COBB	014329
Address: 4242 MEDICAL DR SUITE 5250	Telephone: 512 439-8005	Telephone: 512 439-8005	Telephone: 330-497-9396	2 of 2 COCs
City/State/Zip: SAN ANTONIO, TX 78229	Email: JJent@prudentweb.com			
Phone: 210-822-9588				
Project Name: LLS 1-4,12	Method of Shipment/Carrier:			
Project Number: W912QR-10-D-0037	Shipping/Tracking No:			
PO#				

Analysis Turnaround Time (in BUS days)
TAT if different from below ____
☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day

For lab use only
Walk-in client ☐
Lab pickup ☐
Lab sampling ☐
Job/SDG No.:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other: MeOH	Filtered Sample (Y/N)	Composite=C / Grab=G	Analyses: 6010B TAL	7471A Hg	7196 Cr+6	8330B NON DAILY RENL	PROPELLANTS	8270C SVOCS	8081 PESTICIDES	8082 PCBs	8270C-LL (PAH)	8260B VOC	Sample Specific Notes / Special Instructions:
LL45B-415M-0102-50	6-28-2011	11:15				X																			X		
LL45B-415M-0103-50	6-28-2011	11:15				X																			X		
LL45B-413M-0101-50	6-28-2011	15:18				X																			X		
LL45B-413M-0102-50	6-28-2011	15:24				X																			X		
LAST ITEM																											

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements & Comments:

	Company:	Date/Time:		Company:	Date/Time:
Relinquished by:	PRUDENT	6-28-2011 1600	Received by:	TAL-NC	6/28/11-1600
Relinquished by:	TAL-NC	6/28/11-1641	Received by:		
Relinquished by:			Received in Laboratory by:		

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TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 1599
North Canton Facility

Client Prudent Project LL1-4,12 By: Jill Clarke (Signature)
Cooler Received on 6-27-11 Opened on 6-28-11
FedEx ☐ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ____
TestAmerica Cooler # ____ Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other ____

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒
   If YES, Quantity____ Quantity Unsalvageable____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☒
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? ____
2. Shippers' packing slip attached to the cooler(s)? Yes ☐ No ☒
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☐ Foam ☐ None ☒ Other ____
6. Cooler temperature upon receipt ____ °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐ ____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM ____ Date ____ by ____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning ____

14. CHAIN OF CUSTODY

The following discrepancies occurred:
Received 1 Bag for sample LL45B-413M-0103-SO 6.28.11@ 3:25 not listed on COC

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.
Sample(s) ____ were received in a broken container.
Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)? ____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Login Sample Receipt Checklist

Client: Prudent Technologies, Inc

Job Number: 240-1599-1

Login Number: 1599

List Source: TestAmerica North Canton

List Number: 1

Creator: McFadden, John

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8, 4.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica North Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-1619-1
Client Project/Site: RVAAP

For:
Prudent Technologies, Inc
4242 Medical Drive
Suite 7250
San Antonio, Texas 78229

Attn: Ms. Amanda L. Miller

Authorized for release by:
08/25/2011 02:21:27 PM

Mark Loeb
Project Manager II
mark.loeb@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Definitions/Glossary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1619-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
M	Manual integrated compound.
Q	One or more quality control criteria failed.
D	The reported value is from a dilution.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
Q	One or more quality control criteria failed.
D	The reported value is from a dilution.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-1619-1

Laboratory: TestAmerica North Canton

Narrative

CASE NARRATIVE

Client: Prudent Technologies, Inc

Project: RVAAP

Report Number: 240-1619-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

TestAmerica utilizes USEPA approved methods and DOD QSM, where applicable, in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters for which TestAmerica North Canton has certification were evaluated to the limit of detection (LOD) and include qualified results where applicable. Parameters not certified under QSM, if any, were evaluated to the detection limit (DL) and include qualified results where applicable.

The sample(s) that contain constituents flagged with U are undetected. The result associated with this flag is the limit of detection (LOD)

RECEIPT

The samples were received on 07/01/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.9 C.

8270C

Samples LL3SB-414M-0101-SO (240-1619-1), LL3SB-414M-0102-SO (240-1619-2) and LL3SB-414M-0103-SO (240-1619-3) were analyzed for 8270C in accordance with EPA SW-846 Method 8270_DoD. The samples were leached on 07/08/2011, prepared on 07/12/2011 and analyzed on 07/31/2011.

Samples LL3SB-414M-0101-SO (240-1619-1)[2X] and LL3SB-414M-0102-SO (240-1619-2)[200X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Due to a required dilution, 2,4,6-Tribromophenol (Surr), 2-Fluorobiphenyl (Surr), 2-Fluorophenol (Surr), Nitrobenzene-d5 (Surr), Phenol-d5

Job ID: 240-1619-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

(Surr) and Terphenyl-d14 (Surr) failed the surrogate recovery criteria low for LL3SB-414M-0102-SO (240-1619-2). Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analyses. All other quality control parameters were within the acceptance limits.

8082

Samples LL3SB-412M-0101-SO (240-1619-4), LL3SB-412M-0102-SO (240-1619-5), LL3SB-424M-0001-SO (240-1619-6), LL3SB-423M-0001-SO (240-1619-7), LL3SB-413M-0101-SO (240-1619-8), LL3SB-413M-0102-SO (240-1619-9) and LL3SB-413M-0103-SO (240-1619-10) were analyzed for 8082 in accordance with EPA SW-846 Method 8082_DOD. The samples were leached on 07/08/2011, prepared on 07/12/2011 and analyzed on 07/14/2011, 07/20/2011 and 07/23/2011.

Due to a required dilution before analysis, sample LL3SB-413M-0101-SO (240-1619-8)[200X] failed DCB Decachlorobiphenyl and Tetrachloro-m-xylene surrogate recovery criteria low. The reporting limits have been adjusted accordingly. Refer to the QC report for details.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: LL2SB-513M-0103-SO, LL3SB-413M-0102-SO, LL3SB-413M-0103-SO.

No other difficulties were encountered during the PCB analyses. All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples LL3SB-414M-0101-SO (240-1619-1), LL3SB-414M-0102-SO (240-1619-2), LL3SB-414M-0103-SO (240-1619-3), LL3SB-412M-0101-SO (240-1619-4), LL3SB-412M-0102-SO (240-1619-5), LL3SB-424M-0001-SO (240-1619-6), LL3SB-423M-0001-SO (240-1619-7), LL3SB-413M-0101-SO (240-1619-8), LL3SB-413M-0102-SO (240-1619-9) and LL3SB-413M-0103-SO (240-1619-10) were analyzed for percent solids in accordance with EPA SW846 3550C. The samples were analyzed on 07/11/2011.

No difficulties were encountered during the % solids analyses. All quality control parameters were within the acceptance limits.

Method Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1619-1

Method	Method Description	Protocol	Laboratory
8270C/DoD	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NC
8082/DOD	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL NC
Moisture	Percent Moisture	EPA	TAL NC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1619-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-1619-1	LL3SB-414M-0101-SO	Solid	06/29/11 17:30	07/01/11 16:47
240-1619-2	LL3SB-414M-0102-SO	Solid	06/29/11 17:30	07/01/11 16:47
240-1619-3	LL3SB-414M-0103-SO	Solid	06/29/11 17:30	07/01/11 16:47
240-1619-4	LL3SB-412M-0101-SO	Solid	06/30/11 10:27	07/01/11 16:47
240-1619-5	LL3SB-412M-0102-SO	Solid	06/30/11 10:45	07/01/11 16:47
240-1619-6	LL3SB-424M-0001-SO	Solid	06/30/11 09:30	07/01/11 16:47
240-1619-7	LL3SB-423M-0001-SO	Solid	06/30/11 11:50	07/01/11 16:47
240-1619-8	LL3SB-413M-0101-SO	Solid	06/30/11 14:24	07/01/11 16:47
240-1619-9	LL3SB-413M-0102-SO	Solid	06/30/11 14:25	07/01/11 16:47
240-1619-10	LL3SB-413M-0103-SO	Solid	06/30/11 14:25	07/01/11 16:47

Detection Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1619-1

Client Sample ID: LL3SB-414M-0101-SO — Lab Sample ID: 240-1619-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	44		13	6.6	ug/Kg	2	☼	8270C/DoD	Total/NA
Acenaphthylene	27		13	6.6	ug/Kg	2	☼	8270C/DoD	Total/NA
Anthracene	160		13	6.6	ug/Kg	2	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	710		13	6.6	ug/Kg	2	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	580		13	6.6	ug/Kg	2	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	760	M	13	6.6	ug/Kg	2	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	350		13	6.6	ug/Kg	2	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	450	M	13	6.6	ug/Kg	2	☼	8270C/DoD	Total/NA
Chrysene	720		13	2.2	ug/Kg	2	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	120		13	6.6	ug/Kg	2	☼	8270C/DoD	Total/NA
Fluoranthene	1400		13	6.6	ug/Kg	2	☼	8270C/DoD	Total/NA
Fluorene	40		13	6.6	ug/Kg	2	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	320		13	6.6	ug/Kg	2	☼	8270C/DoD	Total/NA
Naphthalene	15		13	6.6	ug/Kg	2	☼	8270C/DoD	Total/NA
Pyrene	1100		13	6.6	ug/Kg	2	☼	8270C/DoD	Total/NA
Phenanthrene	660		13	6.6	ug/Kg	2	☼	8270C/DoD	Total/NA

Client Sample ID: LL3SB-414M-0102-SO — Lab Sample ID: 240-1619-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	19000	D	1300	660	ug/Kg	200	☼	8270C/DoD	Total/NA
Anthracene	31000	D	1300	660	ug/Kg	200	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	63000	D	1300	660	ug/Kg	200	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	47000	D	1300	660	ug/Kg	200	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	54000	D M	1300	660	ug/Kg	200	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	21000	D	1300	660	ug/Kg	200	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	35000	D M	1300	660	ug/Kg	200	☼	8270C/DoD	Total/NA
Chrysene	64000	D	1300	220	ug/Kg	200	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	7200	D	1300	660	ug/Kg	200	☼	8270C/DoD	Total/NA
Fluoranthene	160000	D	1300	660	ug/Kg	200	☼	8270C/DoD	Total/NA
Fluorene	11000	D	1300	660	ug/Kg	200	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	21000	D	1300	660	ug/Kg	200	☼	8270C/DoD	Total/NA
Naphthalene	11000	D	1300	660	ug/Kg	200	☼	8270C/DoD	Total/NA
Pyrene	120000	D	1300	660	ug/Kg	200	☼	8270C/DoD	Total/NA
Phenanthrene	96000	D	1300	660	ug/Kg	200	☼	8270C/DoD	Total/NA

Client Sample ID: LL3SB-414M-0103-SO — Lab Sample ID: 240-1619-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	17		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	11		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	15	M	6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	10		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	14	M	6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	19		6.7	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	42		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	7.0		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	30		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	26		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL3SB-412M-0101-SO — Lab Sample ID: 240-1619-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	83		56	17	ug/Kg	1	☼	8082/DOD	Total/NA

Detection Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1619-1

Client Sample ID: LL3SB-412M-0102-SO — Lab Sample ID: 240-1619-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	130		56	17	ug/Kg	1	☼	8082/DOD	Total/NA

Client Sample ID: LL3SB-424M-0001-SO — Lab Sample ID: 240-1619-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	250		56	17	ug/Kg	1	☼	8082/DOD	Total/NA

Client Sample ID: LL3SB-423M-0001-SO — Lab Sample ID: 240-1619-7

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	220		56	17	ug/Kg	1	☼	8082/DOD	Total/NA

Client Sample ID: LL3SB-413M-0101-SO — Lab Sample ID: 240-1619-8

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	100000	D	11000	3500	ug/Kg	200	☼	8082/DOD	Total/NA

Client Sample ID: LL3SB-413M-0102-SO — Lab Sample ID: 240-1619-9

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	450		56	17	ug/Kg	1	☼	8082/DOD	Total/NA

Client Sample ID: LL3SB-413M-0103-SO — Lab Sample ID: 240-1619-10

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	87		55	17	ug/Kg	1	☼	8082/DOD	Total/NA

Client Sample ID: LL3SB-414M-0101-SO

Date Collected: 06/29/11 17:30
Date Received: 07/01/11 16:47

Lab Sample ID: 240-1619-1

Matrix: Solid
Percent Solids: 99.3

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	44		13	6.6	ug/Kg	☼	07/12/11 10:53	07/31/11 17:09	2
Acenaphthylene	27		13	6.6	ug/Kg	☼	07/12/11 10:53	07/31/11 17:09	2
Anthracene	160		13	6.6	ug/Kg	☼	07/12/11 10:53	07/31/11 17:09	2
Benzo[a]anthracene	710		13	6.6	ug/Kg	☼	07/12/11 10:53	07/31/11 17:09	2
Benzo[a]pyrene	580		13	6.6	ug/Kg	☼	07/12/11 10:53	07/31/11 17:09	2
Benzo[b]fluoranthene	760	M	13	6.6	ug/Kg	☼	07/12/11 10:53	07/31/11 17:09	2
Benzo[g,h,i]perylene	350		13	6.6	ug/Kg	☼	07/12/11 10:53	07/31/11 17:09	2
Benzo[k]fluoranthene	450	M	13	6.6	ug/Kg	☼	07/12/11 10:53	07/31/11 17:09	2
Chrysene	720		13	2.2	ug/Kg	☼	07/12/11 10:53	07/31/11 17:09	2
Dibenz(a,h)anthracene	120		13	6.6	ug/Kg	☼	07/12/11 10:53	07/31/11 17:09	2
Fluoranthene	1400		13	6.6	ug/Kg	☼	07/12/11 10:53	07/31/11 17:09	2
Fluorene	40		13	6.6	ug/Kg	☼	07/12/11 10:53	07/31/11 17:09	2
Indeno[1,2,3-cd]pyrene	320		13	6.6	ug/Kg	☼	07/12/11 10:53	07/31/11 17:09	2
Naphthalene	15		13	6.6	ug/Kg	☼	07/12/11 10:53	07/31/11 17:09	2
Pyrene	1100		13	6.6	ug/Kg	☼	07/12/11 10:53	07/31/11 17:09	2
Phenanthrene	660		13	6.6	ug/Kg	☼	07/12/11 10:53	07/31/11 17:09	2

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*54*		*45 - 105*	*07/12/11 10:53*	*07/31/11 17:09*	*2*
2-Fluorophenol (Surr)	*67*		*35 - 105*	*07/12/11 10:53*	*07/31/11 17:09*	*2*
Nitrobenzene-d5 (Surr)	*56*		*35 - 100*	*07/12/11 10:53*	*07/31/11 17:09*	*2*
Terphenyl-d14 (Surr)	*72*		*30 - 125*	*07/12/11 10:53*	*07/31/11 17:09*	*2*
2,4,6-Tribromophenol (Surr)	*53*		*35 - 125*	*07/12/11 10:53*	*07/31/11 17:09*	*2*
Phenol-d5 (Surr)	*65*		*40 - 100*	*07/12/11 10:53*	*07/31/11 17:09*	*2*

Client Sample ID: LL3SB-414M-0102-SO

Date Collected: 06/29/11 17:30
Date Received: 07/01/11 16:47

Lab Sample ID: 240-1619-2

Matrix: Solid
Percent Solids: 99.4

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	19000	D	1300	660	ug/Kg	☼	07/12/11 10:53	07/31/11 16:50	200
Acenaphthylene	660	U	1300	660	ug/Kg	☼	07/12/11 10:53	07/31/11 16:50	200
Anthracene	31000	D	1300	660	ug/Kg	☼	07/12/11 10:53	07/31/11 16:50	200
Benzo[a]anthracene	63000	D	1300	660	ug/Kg	☼	07/12/11 10:53	07/31/11 16:50	200
Benzo[a]pyrene	47000	D	1300	660	ug/Kg	☼	07/12/11 10:53	07/31/11 16:50	200
Benzo[b]fluoranthene	54000	D M	1300	660	ug/Kg	☼	07/12/11 10:53	07/31/11 16:50	200
Benzo[g,h,i]perylene	21000	D	1300	660	ug/Kg	☼	07/12/11 10:53	07/31/11 16:50	200
Benzo[k]fluoranthene	35000	D M	1300	660	ug/Kg	☼	07/12/11 10:53	07/31/11 16:50	200
Chrysene	64000	D	1300	220	ug/Kg	☼	07/12/11 10:53	07/31/11 16:50	200
Dibenz(a,h)anthracene	7200	D	1300	660	ug/Kg	☼	07/12/11 10:53	07/31/11 16:50	200
Fluoranthene	160000	D	1300	660	ug/Kg	☼	07/12/11 10:53	07/31/11 16:50	200
Fluorene	11000	D	1300	660	ug/Kg	☼	07/12/11 10:53	07/31/11 16:50	200
Indeno[1,2,3-cd]pyrene	21000	D	1300	660	ug/Kg	☼	07/12/11 10:53	07/31/11 16:50	200
Naphthalene	11000	D	1300	660	ug/Kg	☼	07/12/11 10:53	07/31/11 16:50	200
Pyrene	120000	D	1300	660	ug/Kg	☼	07/12/11 10:53	07/31/11 16:50	200
Phenanthrene	96000	D	1300	660	ug/Kg	☼	07/12/11 10:53	07/31/11 16:50	200

Client Sample ID: LL3SB-414M-0102-SO

Date Collected: 06/29/11 17:30
Date Received: 07/01/11 16:47

Lab Sample ID: 240-1619-2

Matrix: Solid
Percent Solids: 99.4

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*0*	*Q*	*45 - 105*	*07/12/11 10:53*	*07/31/11 16:50*	*200*
2-Fluorophenol (Surr)	*0*	*Q*	*35 - 105*	*07/12/11 10:53*	*07/31/11 16:50*	*200*
Nitrobenzene-d5 (Surr)	*0*	*Q*	*35 - 100*	*07/12/11 10:53*	*07/31/11 16:50*	*200*
Terphenyl-d14 (Surr)	*0*	*Q*	*30 - 125*	*07/12/11 10:53*	*07/31/11 16:50*	*200*
2,4,6-Tribromophenol (Surr)	*0*	*Q*	*35 - 125*	*07/12/11 10:53*	*07/31/11 16:50*	*200*
Phenol-d5 (Surr)	*0*	*Q*	*40 - 100*	*07/12/11 10:53*	*07/31/11 16:50*	*200*

Client Sample ID: LL3SB-414M-0103-SO

Date Collected: 06/29/11 17:30
Date Received: 07/01/11 16:47

Lab Sample ID: 240-1619-3

Matrix: Solid
Percent Solids: 99.4

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 16:31	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 16:31	1
Anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 16:31	1
Benzo[a]anthracene	**17**		6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 16:31	1
Benzo[a]pyrene	**11**		6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 16:31	1
Benzo[b]fluoranthene	**15**	**M**	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 16:31	1
Benzo[g,h,i]perylene	**10**		6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 16:31	1
Benzo[k]fluoranthene	**14**	**M**	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 16:31	1
Chrysene	**19**		6.7	1.1	ug/Kg	☼	07/12/11 10:53	07/31/11 16:31	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 16:31	1
Fluoranthene	**42**		6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 16:31	1
Fluorene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 16:31	1
Indeno[1,2,3-cd]pyrene	**7.0**		6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 16:31	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 16:31	1
Pyrene	**30**		6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 16:31	1
Phenanthrene	**26**		6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 16:31	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*52*		*45 - 105*	*07/12/11 10:53*	*07/31/11 16:31*	*1*
2-Fluorophenol (Surr)	*61*		*35 - 105*	*07/12/11 10:53*	*07/31/11 16:31*	*1*
Nitrobenzene-d5 (Surr)	*50*		*35 - 100*	*07/12/11 10:53*	*07/31/11 16:31*	*1*
Terphenyl-d14 (Surr)	*72*		*30 - 125*	*07/12/11 10:53*	*07/31/11 16:31*	*1*
2,4,6-Tribromophenol (Surr)	*42*		*35 - 125*	*07/12/11 10:53*	*07/31/11 16:31*	*1*
Phenol-d5 (Surr)	*63*		*40 - 100*	*07/12/11 10:53*	*07/31/11 16:31*	*1*

Client Sample ID: LL3SB-412M-0101-SO

Date Collected: 06/30/11 10:27
Date Received: 07/01/11 16:47

Lab Sample ID: 240-1619-4

Matrix: Solid
Percent Solids: 98.2

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/14/11 17:33	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/12/11 09:19	07/14/11 17:33	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/12/11 09:19	07/14/11 17:33	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/12/11 09:19	07/14/11 17:33	1

Client Sample ID: LL3SB-412M-0101-SO

Date Collected: 06/30/11 10:27
Date Received: 07/01/11 16:47

Lab Sample ID: 240-1619-4

Matrix: Solid
Percent Solids: 98.2

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 17:33	1
Aroclor 1254	**83**		56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 17:33	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 17:33	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*40 - 140*	*07/12/11 09:19*	*07/14/11 17:33*	*1*
Tetrachloro-m-xylene	*72*		*40 - 140*	*07/12/11 09:19*	*07/14/11 17:33*	*1*
DCB Decachlorobiphenyl	*94*		*60 - 125*	*07/12/11 09:19*	*07/14/11 17:33*	*1*
DCB Decachlorobiphenyl	*81*		*60 - 125*	*07/12/11 09:19*	*07/14/11 17:33*	*1*

Client Sample ID: LL3SB-412M-0102-SO

Date Collected: 06/30/11 10:45
Date Received: 07/01/11 16:47

Lab Sample ID: 240-1619-5

Matrix: Solid
Percent Solids: 98.3

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/14/11 17:48	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/12/11 09:19	07/14/11 17:48	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/12/11 09:19	07/14/11 17:48	1
Aroclor 1242	25	U	40	13	ug/Kg	☼	07/12/11 09:19	07/14/11 17:48	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 17:48	1
Aroclor 1254	**130**		56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 17:48	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 17:48	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*40 - 140*	*07/12/11 09:19*	*07/14/11 17:48*	*1*
Tetrachloro-m-xylene	*74*		*40 - 140*	*07/12/11 09:19*	*07/14/11 17:48*	*1*
DCB Decachlorobiphenyl	*76*		*60 - 125*	*07/12/11 09:19*	*07/14/11 17:48*	*1*
DCB Decachlorobiphenyl	*67*		*60 - 125*	*07/12/11 09:19*	*07/14/11 17:48*	*1*

Client Sample ID: LL3SB-424M-0001-SO

Date Collected: 06/30/11 09:30
Date Received: 07/01/11 16:47

Lab Sample ID: 240-1619-6

Matrix: Solid
Percent Solids: 98.2

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/14/11 18:02	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/12/11 09:19	07/14/11 18:02	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/12/11 09:19	07/14/11 18:02	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/12/11 09:19	07/14/11 18:02	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 18:02	1
Aroclor 1254	**250**		56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 18:02	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 18:02	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*40 - 140*	*07/12/11 09:19*	*07/14/11 18:02*	*1*
Tetrachloro-m-xylene	*81*		*40 - 140*	*07/12/11 09:19*	*07/14/11 18:02*	*1*
DCB Decachlorobiphenyl	*93*		*60 - 125*	*07/12/11 09:19*	*07/14/11 18:02*	*1*

Client Sample ID: LL3SB-424M-0001-SO

Date Collected: 06/30/11 09:30
Date Received: 07/01/11 16:47

Lab Sample ID: 240-1619-6

Matrix: Solid
Percent Solids: 98.2

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*60 - 125*	*07/12/11 09:19*	*07/14/11 18:02*	*1*

Client Sample ID: LL3SB-423M-0001-SO

Date Collected: 06/30/11 11:50
Date Received: 07/01/11 16:47

Lab Sample ID: 240-1619-7

Matrix: Solid
Percent Solids: 98.0

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/14/11 18:17	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/12/11 09:19	07/14/11 18:17	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/12/11 09:19	07/14/11 18:17	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/12/11 09:19	07/14/11 18:17	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 18:17	1
Aroclor 1254	**220**		56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 18:17	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 18:17	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*40 - 140*	*07/12/11 09:19*	*07/14/11 18:17*	*1*
Tetrachloro-m-xylene	*72*		*40 - 140*	*07/12/11 09:19*	*07/14/11 18:17*	*1*
DCB Decachlorobiphenyl	*103*		*60 - 125*	*07/12/11 09:19*	*07/14/11 18:17*	*1*
DCB Decachlorobiphenyl	*82*		*60 - 125*	*07/12/11 09:19*	*07/14/11 18:17*	*1*

Client Sample ID: LL3SB-413M-0101-SO

Date Collected: 06/30/11 14:24
Date Received: 07/01/11 16:47

Lab Sample ID: 240-1619-8

Matrix: Solid
Percent Solids: 98.4

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	5000	U	13000	4300	ug/Kg	☼	07/12/11 09:19	07/20/11 17:19	200
Aroclor 1221	5000	U	10000	3300	ug/Kg	☼	07/12/11 09:19	07/20/11 17:19	200
Aroclor 1232	5000	U	9100	2800	ug/Kg	☼	07/12/11 09:19	07/20/11 17:19	200
Aroclor 1242	5000	U	8100	2600	ug/Kg	☼	07/12/11 09:19	07/20/11 17:19	200
Aroclor 1248	5000	U	11000	3500	ug/Kg	☼	07/12/11 09:19	07/20/11 17:19	200
Aroclor 1254	**100000**	**D**	11000	3500	ug/Kg	☼	07/12/11 09:19	07/20/11 17:19	200
Aroclor 1260	5000	U	11000	3500	ug/Kg	☼	07/12/11 09:19	07/20/11 17:19	200

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*Q*	*40 - 140*	*07/12/11 09:19*	*07/20/11 17:19*	*200*
Tetrachloro-m-xylene	*0*	*Q*	*40 - 140*	*07/12/11 09:19*	*07/20/11 17:19*	*200*
DCB Decachlorobiphenyl	*0*	*Q*	*60 - 125*	*07/12/11 09:19*	*07/20/11 17:19*	*200*
DCB Decachlorobiphenyl	*0*	*Q*	*60 - 125*	*07/12/11 09:19*	*07/20/11 17:19*	*200*

Client Sample ID: LL3SB-413M-0102-SO

Date Collected: 06/30/11 14:25
Date Received: 07/01/11 16:47

Lab Sample ID: 240-1619-9

Matrix: Solid
Percent Solids: 98.0

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/23/11 19:36	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/12/11 09:19	07/23/11 19:36	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/12/11 09:19	07/23/11 19:36	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/12/11 09:19	07/23/11 19:36	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/23/11 19:36	1
Aroclor 1254	**450**		56	17	ug/Kg	☼	07/12/11 09:19	07/23/11 19:36	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/23/11 19:36	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*40 - 140*	*07/12/11 09:19*	*07/23/11 19:36*	*1*
Tetrachloro-m-xylene	*62*		*40 - 140*	*07/12/11 09:19*	*07/23/11 19:36*	*1*
DCB Decachlorobiphenyl	*71*		*60 - 125*	*07/12/11 09:19*	*07/23/11 19:36*	*1*
DCB Decachlorobiphenyl	*72*		*60 - 125*	*07/12/11 09:19*	*07/23/11 19:36*	*1*

Client Sample ID: LL3SB-413M-0103-SO

Date Collected: 06/30/11 14:25
Date Received: 07/01/11 16:47

Lab Sample ID: 240-1619-10

Matrix: Solid
Percent Solids: 99.3

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	65	21	ug/Kg	☼	07/12/11 09:19	07/23/11 19:51	1
Aroclor 1221	25	U	50	16	ug/Kg	☼	07/12/11 09:19	07/23/11 19:51	1
Aroclor 1232	25	U	45	14	ug/Kg	☼	07/12/11 09:19	07/23/11 19:51	1
Aroclor 1242	25	U	40	13	ug/Kg	☼	07/12/11 09:19	07/23/11 19:51	1
Aroclor 1248	25	U	55	17	ug/Kg	☼	07/12/11 09:19	07/23/11 19:51	1
Aroclor 1254	**87**		55	17	ug/Kg	☼	07/12/11 09:19	07/23/11 19:51	1
Aroclor 1260	25	U	55	17	ug/Kg	☼	07/12/11 09:19	07/23/11 19:51	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*40 - 140*	*07/12/11 09:19*	*07/23/11 19:51*	*1*
Tetrachloro-m-xylene	*61*		*40 - 140*	*07/12/11 09:19*	*07/23/11 19:51*	*1*
DCB Decachlorobiphenyl	*64*		*60 - 125*	*07/12/11 09:19*	*07/23/11 19:51*	*1*
DCB Decachlorobiphenyl	*73*		*60 - 125*	*07/12/11 09:19*	*07/23/11 19:51*	*1*

Surrogate Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1619-1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	TPH	TBP	PHL
Lab Sample ID	Client Sample ID	(45-105)	(35-105)	(35-100)	(30-125)	(35-125)	(40-100)
240-1619-1	LL3SB-414M-0101-SO	54	67	56	72	53	65
240-1619-2	LL3SB-414M-0102-SO	0 Q	0 Q	0 Q	0 Q	0 Q	0 Q
240-1619-3	LL3SB-414M-0103-SO	52	61	50	72	42	63
LCS 240-8076/15-A	Lab Control Sample	55	72	55	76	53	77
MB 240-8076/14-A	Method Blank	46	59	46	78	42	60

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
PHL = Phenol-d5 (Surr)

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(40-140)	(40-140)	(60-125)	(60-125)
240-1619-4	LL3SB-412M-0101-SO	81	72	94	81
240-1619-5	LL3SB-412M-0102-SO	83	74	76	67
240-1619-6	LL3SB-424M-0001-SO	90	81	93	78
240-1619-7	LL3SB-423M-0001-SO	80	72	103	82
240-1619-8	LL3SB-413M-0101-SO	0 Q	0 Q	0 Q	0 Q
240-1619-9	LL3SB-413M-0102-SO	77	62	71	72
240-1619-10	LL3SB-413M-0103-SO	74	61	64	73
LCS 240-8031/20-A	Lab Control Sample	93	88	101	110
MB 240-8031/19-A	Method Blank	82	81	91	102

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-8076/14-A
Matrix: Solid
Analysis Batch: 10353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8076

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Anthracene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Benzo[a]anthracene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Benzo[a]pyrene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Benzo[b]fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Benzo[g,h,i]perylene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Benzo[k]fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Chrysene	3.3	U	6.7	1.1	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Fluorene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Indeno[1,2,3-cd]pyrene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Pyrene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Phenanthrene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*46*		*45 - 105*	*07/12/11 10:53*	*07/31/11 11:30*	*1*
2-Fluorophenol (Surr)	*59*		*35 - 105*	*07/12/11 10:53*	*07/31/11 11:30*	*1*
Nitrobenzene-d5 (Surr)	*46*		*35 - 100*	*07/12/11 10:53*	*07/31/11 11:30*	*1*
Terphenyl-d14 (Surr)	*78*		*30 - 125*	*07/12/11 10:53*	*07/31/11 11:30*	*1*
2,4,6-Tribromophenol (Surr)	*42*		*35 - 125*	*07/12/11 10:53*	*07/31/11 11:30*	*1*
Phenol-d5 (Surr)	*60*		*40 - 100*	*07/12/11 10:53*	*07/31/11 11:30*	*1*

Lab Sample ID: LCS 240-8076/15-A
Matrix: Solid
Analysis Batch: 10353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8076

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	667	388		ug/Kg		58	45 - 110
Acenaphthylene	667	403		ug/Kg		60	45 - 105
Anthracene	667	441		ug/Kg		66	55 - 105
Benzo[a]anthracene	667	435		ug/Kg		65	50 - 110
Benzo[a]pyrene	667	419		ug/Kg		63	50 - 110
Benzo[b]fluoranthene	667	406		ug/Kg		61	45 - 115
Benzo[g,h,i]perylene	667	497		ug/Kg		74	40 - 125
Benzo[k]fluoranthene	667	507		ug/Kg		76	45 - 125
Chrysene	667	447		ug/Kg		67	55 - 110
Dibenz(a,h)anthracene	667	493		ug/Kg		74	40 - 125
Fluoranthene	667	468		ug/Kg		70	55 - 115
Fluorene	667	404		ug/Kg		61	50 - 110
Indeno[1,2,3-cd]pyrene	667	498		ug/Kg		75	40 - 120
Naphthalene	667	373		ug/Kg		56	40 - 105
Pyrene	667	447		ug/Kg		67	45 - 125
Phenanthrene	667	434		ug/Kg		65	50 - 110

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*55*		*45 - 105*

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-8076/15-A
Matrix: Solid
Analysis Batch: 10353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8076

Surrogate	LCS % Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	72		35 - 105
Nitrobenzene-d5 (Surr)	55		35 - 100
Terphenyl-d14 (Surr)	76		30 - 125
2,4,6-Tribromophenol (Surr)	53		35 - 125
Phenol-d5 (Surr)	77		40 - 100

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-8031/19-A
Matrix: Solid
Analysis Batch: 9463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8031

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	65	21	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1221	25	U	50	16	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1232	25	U	45	14	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1242	25	U	40	13	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1248	25	U	55	17	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1254	25	U	55	17	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1260	25	U	55	17	ug/Kg		07/12/11 09:19	07/23/11 21:19	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		40 - 140	07/12/11 09:19	07/23/11 21:19	1
Tetrachloro-m-xylene	81		40 - 140	07/12/11 09:19	07/23/11 21:19	1
DCB Decachlorobiphenyl	91		60 - 125	07/12/11 09:19	07/23/11 21:19	1
DCB Decachlorobiphenyl	102		60 - 125	07/12/11 09:19	07/23/11 21:19	1

Lab Sample ID: LCS 240-8031/20-A
Matrix: Solid
Analysis Batch: 9463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8031

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Aroclor 1016			333	315		ug/Kg		94	40 - 140		
Aroclor 1260			333	326		ug/Kg		98	60 - 130		

Surrogate	LCS % Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	93		40 - 140
Tetrachloro-m-xylene	88		40 - 140
DCB Decachlorobiphenyl	101		60 - 125
DCB Decachlorobiphenyl	110		60 - 125

GC/MS Semi VOA

Leach Batch: 7730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1619-1	LL3SB-414M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1619-2	LL3SB-414M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1619-3	LL3SB-414M-0103-SO	Total/NA	Solid	Increm, Prep	

Prep Batch: 8076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1619-1	LL3SB-414M-0101-SO	Total/NA	Solid	3540C	7730
240-1619-2	LL3SB-414M-0102-SO	Total/NA	Solid	3540C	7730
240-1619-3	LL3SB-414M-0103-SO	Total/NA	Solid	3540C	7730
LCS 240-8076/15-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-8076/14-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 10353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1619-1	LL3SB-414M-0101-SO	Total/NA	Solid	8270C/DoD	8076
240-1619-2	LL3SB-414M-0102-SO	Total/NA	Solid	8270C/DoD	8076
240-1619-3	LL3SB-414M-0103-SO	Total/NA	Solid	8270C/DoD	8076
LCS 240-8076/15-A	Lab Control Sample	Total/NA	Solid	8270C/DoD	8076
MB 240-8076/14-A	Method Blank	Total/NA	Solid	8270C/DoD	8076

GC Semi VOA

Leach Batch: 7730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1619-4	LL3SB-412M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1619-5	LL3SB-412M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1619-6	LL3SB-424M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1619-7	LL3SB-423M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1619-8	LL3SB-413M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1619-9	LL3SB-413M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1619-10	LL3SB-413M-0103-SO	Total/NA	Solid	Increm, Prep	

Prep Batch: 8031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1619-4	LL3SB-412M-0101-SO	Total/NA	Solid	3540C	7730
240-1619-5	LL3SB-412M-0102-SO	Total/NA	Solid	3540C	7730
240-1619-6	LL3SB-424M-0001-SO	Total/NA	Solid	3540C	7730
240-1619-7	LL3SB-423M-0001-SO	Total/NA	Solid	3540C	7730
240-1619-8	LL3SB-413M-0101-SO	Total/NA	Solid	3540C	7730
240-1619-9	LL3SB-413M-0102-SO	Total/NA	Solid	3540C	7730
240-1619-10	LL3SB-413M-0103-SO	Total/NA	Solid	3540C	7730
LCS 240-8031/20-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-8031/19-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 8466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1619-4	LL3SB-412M-0101-SO	Total/NA	Solid	8082/DOD	8031
240-1619-5	LL3SB-412M-0102-SO	Total/NA	Solid	8082/DOD	8031
240-1619-6	LL3SB-424M-0001-SO	Total/NA	Solid	8082/DOD	8031
240-1619-7	LL3SB-423M-0001-SO	Total/NA	Solid	8082/DOD	8031

GC Semi VOA (Continued)

Analysis Batch: 9102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1619-8	LL3SB-413M-0101-SO	Total/NA	Solid	8082/DOD	8031

Analysis Batch: 9463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1619-9	LL3SB-413M-0102-SO	Total/NA	Solid	8082/DOD	8031
240-1619-10	LL3SB-413M-0103-SO	Total/NA	Solid	8082/DOD	8031
LCS 240-8031/20-A	Lab Control Sample	Total/NA	Solid	8082/DOD	8031
MB 240-8031/19-A	Method Blank	Total/NA	Solid	8082/DOD	8031

General Chemistry

Analysis Batch: 7950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1619-1	LL3SB-414M-0101-SO	Total/NA	Solid	Moisture	
240-1619-1 DU	LL3SB-414M-0101-SO	Total/NA	Solid	Moisture	
240-1619-2	LL3SB-414M-0102-SO	Total/NA	Solid	Moisture	
240-1619-3	LL3SB-414M-0103-SO	Total/NA	Solid	Moisture	
240-1619-4	LL3SB-412M-0101-SO	Total/NA	Solid	Moisture	
240-1619-5	LL3SB-412M-0102-SO	Total/NA	Solid	Moisture	
240-1619-6	LL3SB-424M-0001-SO	Total/NA	Solid	Moisture	
240-1619-7	LL3SB-423M-0001-SO	Total/NA	Solid	Moisture	
240-1619-8	LL3SB-413M-0101-SO	Total/NA	Solid	Moisture	
240-1619-9	LL3SB-413M-0102-SO	Total/NA	Solid	Moisture	
240-1619-10	LL3SB-413M-0103-SO	Total/NA	Solid	Moisture	
240-1619-10 DU	LL3SB-413M-0103-SO	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1619-1

Client Sample ID: LL3SB-414M-0101-SO — Lab Sample ID: 240-1619-1

Date Collected: 06/29/11 17:30 — **Matrix: Solid**
Date Received: 07/01/11 16:47 — **Percent Solids: 99.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3540C			8076	07/12/11 10:53	AK	TAL NC
Total/NA	Analysis	8270C/DoD		2	10353	07/31/11 17:09	MU	TAL NC
Total/NA	Analysis	Moisture		1	7950	07/11/11 12:41	CN	TAL NC

Client Sample ID: LL3SB-414M-0102-SO — Lab Sample ID: 240-1619-2

Date Collected: 06/29/11 17:30 — **Matrix: Solid**
Date Received: 07/01/11 16:47 — **Percent Solids: 99.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3540C			8076	07/12/11 10:53	AK	TAL NC
Total/NA	Analysis	8270C/DoD		200	10353	07/31/11 16:50	MU	TAL NC
Total/NA	Analysis	Moisture		1	7950	07/11/11 12:41	CN	TAL NC

Client Sample ID: LL3SB-414M-0103-SO — Lab Sample ID: 240-1619-3

Date Collected: 06/29/11 17:30 — **Matrix: Solid**
Date Received: 07/01/11 16:47 — **Percent Solids: 99.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3540C			8076	07/12/11 10:53	AK	TAL NC
Total/NA	Analysis	8270C/DoD		1	10353	07/31/11 16:31	MU	TAL NC
Total/NA	Analysis	Moisture		1	7950	07/11/11 12:41	CN	TAL NC

Client Sample ID: LL3SB-412M-0101-SO — Lab Sample ID: 240-1619-4

Date Collected: 06/30/11 10:27 — **Matrix: Solid**
Date Received: 07/01/11 16:47 — **Percent Solids: 98.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3540C			8031	07/12/11 09:19	SM	TAL NC
Total/NA	Analysis	8082/DOD		1	8466	07/14/11 17:33	CR	TAL NC
Total/NA	Analysis	Moisture		1	7950	07/11/11 12:41	CN	TAL NC

Client Sample ID: LL3SB-412M-0102-SO — Lab Sample ID: 240-1619-5

Date Collected: 06/30/11 10:45 — **Matrix: Solid**
Date Received: 07/01/11 16:47 — **Percent Solids: 98.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3540C			8031	07/12/11 09:19	SM	TAL NC
Total/NA	Analysis	8082/DOD		1	8466	07/14/11 17:48	CR	TAL NC
Total/NA	Analysis	Moisture		1	7950	07/11/11 12:41	CN	TAL NC

Client Sample ID: LL3SB-424M-0001-SO

Lab Sample ID: 240-1619-6

Date Collected: 06/30/11 09:30
Matrix: Solid
Date Received: 07/01/11 16:47
Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3540C			8031	07/12/11 09:19	SM	TAL NC
Total/NA	Analysis	8082/DOD		1	8466	07/14/11 18:02	CR	TAL NC
Total/NA	Analysis	Moisture		1	7950	07/11/11 12:41	CN	TAL NC

Client Sample ID: LL3SB-423M-0001-SO

Lab Sample ID: 240-1619-7

Date Collected: 06/30/11 11:50
Matrix: Solid
Date Received: 07/01/11 16:47
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3540C			8031	07/12/11 09:19	SM	TAL NC
Total/NA	Analysis	8082/DOD		1	8466	07/14/11 18:17	CR	TAL NC
Total/NA	Analysis	Moisture		1	7950	07/11/11 12:41	CN	TAL NC

Client Sample ID: LL3SB-413M-0101-SO

Lab Sample ID: 240-1619-8

Date Collected: 06/30/11 14:24
Matrix: Solid
Date Received: 07/01/11 16:47
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3540C			8031	07/12/11 09:19	SM	TAL NC
Total/NA	Analysis	8082/DOD		200	9102	07/20/11 17:19	LH	TAL NC
Total/NA	Analysis	Moisture		1	7950	07/11/11 12:41	CN	TAL NC

Client Sample ID: LL3SB-413M-0102-SO

Lab Sample ID: 240-1619-9

Date Collected: 06/30/11 14:25
Matrix: Solid
Date Received: 07/01/11 16:47
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3540C			8031	07/12/11 09:19	SM	TAL NC
Total/NA	Analysis	8082/DOD		1	9463	07/23/11 19:36	LH	TAL NC
Total/NA	Analysis	Moisture		1	7950	07/11/11 12:41	CN	TAL NC

Client Sample ID: LL3SB-413M-0103-SO

Lab Sample ID: 240-1619-10

Date Collected: 06/30/11 14:25
Matrix: Solid
Date Received: 07/01/11 16:47
Percent Solids: 99.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3540C			8031	07/12/11 09:19	SM	TAL NC
Total/NA	Analysis	8082/DOD		1	9463	07/23/11 19:51	LH	TAL NC
Total/NA	Analysis	Moisture		1	7950	07/11/11 12:41	CN	TAL NC

Lab Chronicle

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1619-1

Laboratory References:
TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1619-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica North Canton	ACLASS	DoD ELAP		ADE-1437
TestAmerica North Canton	California	NELAC	9	01144CA
TestAmerica North Canton	Connecticut	State Program	1	PH-0590
TestAmerica North Canton	Florida	NELAC	4	E87225
TestAmerica North Canton	Georgia	Georgia EPD	4	N/A
TestAmerica North Canton	Illinois	NELAC	5	200004
TestAmerica North Canton	Kansas	NELAC	7	E-10336
TestAmerica North Canton	Kentucky	State Program	4	58
TestAmerica North Canton	Minnesota	NELAC	5	039-999-348
TestAmerica North Canton	Nevada	State Program	9	OH-000482008A
TestAmerica North Canton	New Jersey	NELAC	2	OH001
TestAmerica North Canton	New York	NELAC	2	10975
TestAmerica North Canton	Ohio	OVAP	5	CL0024
TestAmerica North Canton	Pennsylvania	NELAC	3	68-00340
TestAmerica North Canton	USDA	USDA		P330-08-00123
TestAmerica North Canton	West Virginia	West Virginia DEP	3	210
TestAmerica North Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: NORTH CANTON
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other RVAAP

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: PRUDENT TECHNOLOGIES	Client Project Manager: JOHN JENT	Site Contact: JOHN JENT	Lab Contact: MARK LOEB	COC No: 014332
Address: 4242 MEDICAL DR SUITE 5250	Telephone: 502 439-8005	Telephone: 502 439-8008	Telephone: 330-497-9396	1 of 2 COCs
City/State/Zip: SAN ANTONIO, TX 78229	Email: JJent@prudentweb.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: 210 822-9588		TAT if different from below ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: LL 1-4, 12	Method of Shipment/Carrier:			Job/SDG No:
Project Number: W912QR-10-P-0037	Shipping/Tracking No:			
PO #				Sample Specific Notes / Special Instructions:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other: MEOH	Filtered Sample (Y/N)	Composite=C / Grab=G	Analyses: ASSESS 6010B TAL	7471A HG	8330B NON EXPL	PROPELLANTS	8270C SVOCs	8081 PESTICIDES	8082 PCBs	8270C-LL (PAH)	7196 CR+6	8260B VOC	Sample Specific Notes / Special Instructions:
LL35B-414M-0101-~~0001~~-50	6-29-2011	1730				X										C	X							X			
LL35B-414M-0102-~~0001~~-50	6-29-2011	1730				X										C	X							X			
LL35B-414M-0103-~~0001~~-50	6-29-2011	1730				X										C	X							X			
LL35B-412M-0101-~~0001~~-50	6-30-2011	1027				X										C							X				
LL35B-412M-0102-~~0001~~-50	6-30-2011	1045				X										C							X				
~~LL35B-412M-0103-0001-50~~	~~6-30-2011~~	~~1027~~				X										C							X				
LL35S-424M-0001-~~0001~~-50	6-30-2011	0930				X										C							X				
LL35S-423M-0001-~~0001~~-50	6-30-2011	1150				X										C							X				
LL35B-413M-0101-~~0001~~-50	6-30-2011	1424				X										C							X				
LL35B-413M-0102-~~0001~~-50	6-30	1425				X										C							X				

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	PRUDENT	6-30-2011/1600	[signature]	TAL-NC	6/30/11 1600
[signature]	TAL-NC	6/30/11 1647			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			[signature]	TALE	6-30-11 1647

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TAL 0018-1 (04/10)

08/25/2011

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: NORTH CANTON
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other RVAAP

TestAmerica Laboratories, Inc.

Client Contact	Client Project Manager:	Site Contact:	Lab Contact:	COC No:
Company Name: PRUDENT TECHNOLOGIES	JOHN JENT	JOHN JENT	MARK LOEB	014333
Address: 4242 MEDICAL DR SUITE 5250	Telephone: 502 439-8005	Telephone: 502 439-8005	Telephone: 330-497-9396	2 of 2 COCs
City/State/Zip: SAN ANTONIO, TX 78229	Email: jpjent@prudentweb.com	Analysis Turnaround Time (in BUS days)		For lab use only
Phone: 210 822-9588		TAT if different from below ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: LLs 1-4, 12	Method of Shipment/Carrier: COURIER			Job/SDG No:
Project Number: W912QR-10-P-0037	Shipping/Tracking No:			
PO#				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	Analyses: 6010B TAL	7471A HG	7196 CR+6	8330B Nom Expl	PAH/PETROLEUMS	8270C SVOCs	8081 PESTICIDES	8082 PCBs	8270C-LL (PAH)	8260B - VOC	Sample Specific Notes / Special Instructions:
LL35B-413-0103-56	6-30-2011	1425				X																		X			
LAST		ITEM																									

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	PRUDENT	6-30-2011 1600		TAL-NC	6/30/11 1600
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TAL-NC	6/30/11 1647			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TAL	6-30-11 1647

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TAL 0018- 1 (04/10)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 240-1619
North Canton Facility

Client Prudent Project LLC1-4,12 By: JR Clark
Cooler Received on 6-30-11 Opened on 6-30-11 7.1.11 (Signature)
FedEx ☐ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☒ TestAmerica Courier ☐ Other
TestAmerica Cooler # No # Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒
   If YES, Quantity Quantity Unsalvageable
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☒
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions?
2. Shippers' packing slip attached to the cooler(s)? Yes ☐ No ☒
3. Did custody papers accompany the sample(s)? Yes ☑ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☑ No ☐
5. Packing material used: Bubble Wrap ☐ Foam ☐ None ☒ Other
6. Cooler temperature upon receipt 3.9 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☑ Other ☐
   COOLANT: Wet Ice ☑ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☑ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☑ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☑

Contacted PM Date by via Verbal ☐ Voice Mail ☐ Other ☐
Concerning

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108-*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN$/*NaOH*. What time was preservative added to sample(s)?

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Login Sample Receipt Checklist

Client: Prudent Technologies, Inc

Job Number: 240-1619-1

Login Number: 1619

List Source: TestAmerica North Canton

List Number: 1

Creator: Sutek, Nick

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	3.9
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica North Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-1619-2
Client Project/Site: RVAAP

For:
Prudent Technologies, Inc
4242 Medical Drive
Suite 7250
San Antonio, Texas 78229

Attn: Ms. Amanda L. Miller

Authorized for release by:
10/05/2011 09:12:38 AM

Mark Loeb
Project Manager II
mark.loeb@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Definitions/Glossary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1619-2

Qualifiers

Metals

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-1619-2

Laboratory: TestAmerica North Canton

Narrative

CASE NARRATIVE

Client: Prudent Technologies, Inc

Project: RVAAP

Report Number: 240-1619-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

TestAmerica utilizes USEPA approved methods and DOD QSM, where applicable, in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters for which TestAmerica North Canton has certification were evaluated to the limit of detection (LOD) and include qualified results where applicable. Parameters not certified under QSM, if any, were evaluated to the detection limit (DL) and include qualified results where applicable.

The sample(s) that contain constituents flagged with U are undetected. The result associated with this flag is the limit of detection (LOD).

RECEIPT

The samples were received on 07/01/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 3.9 C.

TOTAL METALS (ICPMS)

Samples LL3SB-414M-0101-SO (240-1619-1), LL3SB-414M-0102-SO (240-1619-2) and LL3SB-414M-0103-SO (240-1619-3) were analyzed for total metals (ICPMS) in accordance with EPA SW-846 Method 6020 DoD. The samples were leached on 07/08/2011, prepared on 09/27/2011 and analyzed on 09/28/2011.

Arsenic was detected in method blank MB 240-16917/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

Job ID: 240-1619-2 (Continued)

Laboratory: TestAmerica North Canton (Continued)

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

Method Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1619-2

Method	Method Description	Protocol	Laboratory
6020/DOD	Metals (ICP/MS)	SW846	TAL NC

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1619-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-1619-1	LL3SB-414M-0101-SO	Solid	06/29/11 17:30	07/01/11 16:47
240-1619-2	LL3SB-414M-0102-SO	Solid	06/29/11 17:30	07/01/11 16:47
240-1619-3	LL3SB-414M-0103-SO	Solid	06/29/11 17:30	07/01/11 16:47

Detection Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1619-2

Client Sample ID: LL3SB-414M-0101-SO — Lab Sample ID: 240-1619-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		0.50	0.052	mg/Kg	1	☼	6020/DOD	Total/NA

Client Sample ID: LL3SB-414M-0102-SO — Lab Sample ID: 240-1619-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.5		0.47	0.050	mg/Kg	1	☼	6020/DOD	Total/NA

Client Sample ID: LL3SB-414M-0103-SO — Lab Sample ID: 240-1619-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.5		0.47	0.049	mg/Kg	1	☼	6020/DOD	Total/NA

Client Sample ID: LL3SB-414M-0101-SO

Lab Sample ID: 240-1619-1

Date Collected: 06/29/11 17:30
Matrix: Solid
Date Received: 07/01/11 16:47
Percent Solids: 99.3

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		0.50	0.052	mg/Kg	☼	09/27/11 11:54	09/28/11 08:05	1

Client Sample ID: LL3SB-414M-0102-SO

Lab Sample ID: 240-1619-2

Date Collected: 06/29/11 17:30
Matrix: Solid
Date Received: 07/01/11 16:47
Percent Solids: 99.4

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.5		0.47	0.050	mg/Kg	☼	09/27/11 11:54	09/28/11 08:38	1

Client Sample ID: LL3SB-414M-0103-SO

Lab Sample ID: 240-1619-3

Date Collected: 06/29/11 17:30
Matrix: Solid
Date Received: 07/01/11 16:47
Percent Solids: 99.4

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.5		0.47	0.049	mg/Kg	☼	09/27/11 11:54	09/28/11 08:43	1

Method: 6020/DOD - Metals (ICP/MS)

Lab Sample ID: MB 240-16917/1-A
Matrix: Solid
Analysis Batch: 17129

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16917

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.114	J	0.50	0.052	mg/Kg		09/27/11 11:54	09/28/11 07:53	1

Lab Sample ID: LCS 240-16917/2-A
Matrix: Solid
Analysis Batch: 17129

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16917

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Arsenic			100	81.2		mg/Kg		81	73 - 110		

Lab Sample ID: 240-1619-1 MS
Matrix: Solid
Analysis Batch: 17129

Client Sample ID: LL3SB-414M-0101-SO
Prep Type: Total/NA
Prep Batch: 16917

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits		
Arsenic	11		9.97	18.2		mg/Kg	☼	76	23 - 131		

Lab Sample ID: 240-1619-1 MSD
Matrix: Solid
Analysis Batch: 17129

Client Sample ID: LL3SB-414M-0101-SO
Prep Type: Total/NA
Prep Batch: 16917

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	11		9.97	17.7		mg/Kg	☼	72	23 - 131	3	20

QC Association Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1619-2

Metals

Leach Batch: 7730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1619-1	LL3SB-414M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1619-1 MS	LL3SB-414M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1619-1 MSD	LL3SB-414M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1619-2	LL3SB-414M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1619-3	LL3SB-414M-0103-SO	Total/NA	Solid	Increm, Prep	

Prep Batch: 16917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1619-1	LL3SB-414M-0101-SO	Total/NA	Solid	3050B	7730
240-1619-1 MS	LL3SB-414M-0101-SO	Total/NA	Solid	3050B	7730
240-1619-1 MSD	LL3SB-414M-0101-SO	Total/NA	Solid	3050B	7730
240-1619-2	LL3SB-414M-0102-SO	Total/NA	Solid	3050B	7730
240-1619-3	LL3SB-414M-0103-SO	Total/NA	Solid	3050B	7730
LCS 240-16917/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 240-16917/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 17129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1619-1	LL3SB-414M-0101-SO	Total/NA	Solid	6020/DOD	16917
240-1619-1 MS	LL3SB-414M-0101-SO	Total/NA	Solid	6020/DOD	16917
240-1619-1 MSD	LL3SB-414M-0101-SO	Total/NA	Solid	6020/DOD	16917
240-1619-2	LL3SB-414M-0102-SO	Total/NA	Solid	6020/DOD	16917
240-1619-3	LL3SB-414M-0103-SO	Total/NA	Solid	6020/DOD	16917
LCS 240-16917/2-A	Lab Control Sample	Total/NA	Solid	6020/DOD	16917
MB 240-16917/1-A	Method Blank	Total/NA	Solid	6020/DOD	16917

Lab Chronicle

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1619-2

Client Sample ID: LL3SB-414M-0101-SO — Lab Sample ID: 240-1619-1

Date Collected: 06/29/11 17:30 — **Matrix: Solid**
Date Received: 07/01/11 16:47 — **Percent Solids: 99.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3050B			16917	09/27/11 11:54	AS	TAL NC
Total/NA	Analysis	6020/DOD		1	17129	09/28/11 08:05	KC	TAL NC

Client Sample ID: LL3SB-414M-0102-SO — Lab Sample ID: 240-1619-2

Date Collected: 06/29/11 17:30 — **Matrix: Solid**
Date Received: 07/01/11 16:47 — **Percent Solids: 99.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3050B			16917	09/27/11 11:54	AS	TAL NC
Total/NA	Analysis	6020/DOD		1	17129	09/28/11 08:38	KC	TAL NC

Client Sample ID: LL3SB-414M-0103-SO — Lab Sample ID: 240-1619-3

Date Collected: 06/29/11 17:30 — **Matrix: Solid**
Date Received: 07/01/11 16:47 — **Percent Solids: 99.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3050B			16917	09/27/11 11:54	AS	TAL NC
Total/NA	Analysis	6020/DOD		1	17129	09/28/11 08:43	KC	TAL NC

Laboratory References:
TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1619-2

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica North Canton	ACLASS	DoD ELAP		ADE-1437
TestAmerica North Canton	California	NELAC	9	01144CA
TestAmerica North Canton	Connecticut	State Program	1	PH-0590
TestAmerica North Canton	Florida	NELAC	4	E87225
TestAmerica North Canton	Georgia	Georgia EPD	4	N/A
TestAmerica North Canton	Illinois	NELAC	5	200004
TestAmerica North Canton	Kansas	NELAC	7	E-10336
TestAmerica North Canton	Kentucky	State Program	4	58
TestAmerica North Canton	Minnesota	NELAC	5	039-999-348
TestAmerica North Canton	Nevada	State Program	9	OH-000482008A
TestAmerica North Canton	New Jersey	NELAC	2	OH001
TestAmerica North Canton	New York	NELAC	2	10975
TestAmerica North Canton	Ohio	OVAP	5	CL0024
TestAmerica North Canton	Pennsylvania	NELAC	3	68-00340
TestAmerica North Canton	USDA	USDA		P330-11-00328
TestAmerica North Canton	Virginia	NELAC Secondary AB	3	460175
TestAmerica North Canton	West Virginia	West Virginia DEP	3	210
TestAmerica North Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: NORTH CANTON
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other RVAAP

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: PRUDENT TECHNOLOGIES	Client Project Manager: JOHN JENT	Site Contact: JOHN JENT	Lab Contact: MARK LOEB	COC No: 014332
Address: 4242 MEDICAL DR SUITE 5250	Telephone: 502 439-8005	Telephone: 502 439-8008	Telephone: 330-497-9396	1 of 2 COCs
City/State/Zip: SAN ANTONIO, TX 78229	Email: JJent@prudentweb.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: 210 822-9588		TAT if different from below ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: LL 1-4, 12	Method of Shipment/Carrier:			Job/SDG/No:
Project Number: W912QR-10-P-0037	Shipping/Tracking No:			
PO#				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other: MEOH	Filtered Sample (Y/N)	Composite=C / Grab=G	Analyses: ASSESS 6010B TAL	7471A HG	8330B NON EXPL	PROPELLANTS	8270C SVOCs	8081 PESTICIDES	8082 PCBs	8270C-LL (PAH)	7196 CR+6	8260B VOC	Sample Specific Notes / Special Instructions:
LL35B-414M-0101-~~0001~~-50	6-29-2011	1730				X										C	X							X			
LL35B-414M-0102-~~0001~~-50	6-29-2011	1730				X										C	X							X			
LL35B-414M-0103-~~0001~~-50	6-29-2011	1730				X										C	X							X			
LL35B-412M-0101-~~0001~~-50	6-30-2011	1027				X																	X				
LL35B-412M-0102-~~0001~~-50	6-30-2011	1045				X																	X				
~~LL35B-412M-0103-0001-50~~	~~6-30-2011~~	~~1027~~				X																	X				
LL35S-424M-0001-~~0001~~-50	6-30-2011	0930				X																	X				
LL35S-423M-0001-~~0001~~-50	6-30-2011	1150				X																	X				
LL35B-413M-0101-~~0001~~-50	6-30-2011	1424				X																	X				
LL35B-413M-0102-~~0001~~-50	6-30	1425				X																	X				

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

	Company:	Date/Time:		Company:	Date/Time:
Relinquished by:	PRUDENT	6-30-2011/1600	Received by:	TAL-NC	6/30/11 1600
Relinquished by:	TAL-NC	6/30/11 1647	Received by:		
Relinquished by:			Received in Laboratory by:		6-30-11 1647

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TAL 0018-1 (04/10)

10/05/2011

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: NORTH CANTON
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other RVAAP

TestAmerica Laboratories, Inc.

Client Contact	Client Project Manager:	Site Contact:	Lab Contact:	COC No:
Company Name: PRUDENT TECHNOLOGIES	JOHN JENT	JOHN JENT	MARK LOEB	014333
Address: 4242 MEDICAL DR SUITE 5250	Telephone: 502 439-8005	Telephone: 502 439-8005	Telephone: 330-497-9396	2 of 2 COCs
City/State/Zip: SAN ANTONIO, TX 78229	Email: jpjent@prudentweb.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: 210 822-9588		TAT if different from below ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐ Job/SDG No:
Project Name: LLs 1-4, 12	Method of Shipment/Carrier: COURIER			
Project Number: W912QR-10-P-0037	Shipping/Tracking No:			
PO#				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	6010B TAL	7471A HG	7196 CR+6	8330B Nom Pwd Expl	PCB Pesticides	8270C SVOCs	8081 Pesticides	8082 PCBs	8270C-LL (PAH)	8260B - VOC	Sample Specific Notes / Special Instructions:
LL35B-413-0103-SO	6-30-2011	1425				X																		X			
LAST		ITEM																									

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	PRUDENT	6-30-2011 1600		TAL-NC	6/30/11 1600
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TAL-NC	6/30/11 1647			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TAL	6-30-11 1647

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TAL 0018- 1 (04/10)

10/05/2011

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 240-1619
North Canton Facility

Client Prudent Project LLC1-4,12 By: JR Clark
Cooler Received on 6-30-11 Opened on 6-30-11 7.1.11 (Signature)
FedEx ☐ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☒ TestAmerica Courier ☐ Other
TestAmerica Cooler # No # Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒
   If YES, Quantity Quantity Unsalvageable
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☒
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions?
2. Shippers' packing slip attached to the cooler(s)? Yes ☐ No ☒
3. Did custody papers accompany the sample(s)? Yes ☑ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☑ No ☐
5. Packing material used: Bubble Wrap ☐ Foam ☐ None ☒ Other
6. Cooler temperature upon receipt 3.9 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☑ Other ☐
   COOLANT: Wet Ice ☑ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☑ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☑ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☑

Contacted PM Date by via Verbal ☐ Voice Mail ☐ Other ☐
Concerning

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108-*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN$/*NaOH*. What time was preservative added to sample(s)?

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Login Sample Receipt Checklist

Client: Prudent Technologies, Inc

Job Number: 240-1619-2

Login Number: 1619

List Number: 1

Creator: Sutek, Nick

List Source: TestAmerica North Canton

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	3.9
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica North Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-1620-1
Client Project/Site: RVAAP

For:
Prudent Technologies, Inc
4242 Medical Drive
Suite 7250
San Antonio, Texas 78229

Attn: Ms. Amanda L. Miller

Authorized for release by:
09/26/2011 02:52:26 PM

Mark Loeb
Project Manager II
mark.loeb@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
Q	One or more quality control criteria failed.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
M	Manual integrated compound.
J	Estimated: The analyte was positively identified; the quantitation is an estimation

GC Semi VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
Q	One or more quality control criteria failed.
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.

Metals

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.
D	The reported value is from a dilution.

General Chemistry

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-1620-1

Laboratory: TestAmerica North Canton

Narrative

CASE NARRATIVE

Client: Prudent Technologies, Inc

Project: RVAAP

Report Number: 240-1620-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

TestAmerica utilizes USEPA approved methods and DOD QSM, where applicable, in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters for which TestAmerica North Canton has certification were evaluated to the limit of detection (LOD) and include qualified results where applicable. Parameters not certified under QSM, if any, were evaluated to the detection limit (DL) and include qualified results where applicable.

The sample(s) that contain constituents flagged with U are undetected. The result associated with this flag is the limit of detection (LOD).

RECEIPT

The samples were received on 06/29/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.0 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples CHASS-0001V-0001-SO (240-1620-6) and CHASS-0002V-0001-SO (240-1620-7) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B DoD. The samples were analyzed on 07/08/2011.

4-Bromofluorobenzene (Surr) and Toluene-d8 (Surr) failed the surrogate recovery criteria low for samples CHASS-0001V-0001-SO (240-1620-6), CHASS-0002V-0001-SO (240-1620-7), MB 240-7596/6-A, LCS 240-7596/7-A, and 240-1585-E-8-B MS. There was insufficient sample to perform a re-extraction; therefore, the data have been reported. Refer to the QC report for details.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

Job ID: 240-1620-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

SEMIVOLATILE ORGANIC COMPOUNDS (GC MS)

Samples LL3SB-415M-0101-SO (240-1620-1), LL3SB-415M-0102-SO (240-1620-2), LL3SB-415M-0103-SO (240-1620-3), CHASS-0001M-0001-SO (240-1620-4) and CHASS-0002M-0001-SO (240-1620-5) were analyzed for semivolatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8270 DoD. The samples were leached on 07/08/2011, prepared on 07/12/2011 and analyzed on 07/31/2011.

Bis(2-ethylhexyl) phthalate was detected in method blank MB 240-8076/14-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

4,6-Dinitro-2-methylphenol, Benzyl alcohol, Dibenz(a,h)anthracene and Pentachlorophenol failed the recovery criteria low for the MS and of sample 240-1650-8 in batch 240-10353. For the MSD of sample 240-1650-8 in batch 240-10353, 4,6-Dinitro-2-methylphenol, Benzyl alcohol, Dibenz(a,h)anthracene and Pentachlorophenol failed the recovery criteria low. 2,4-Dinitrotoluene failed the recovery criteria high. Also, Dibenz(a,h)anthracene exceeded the rpd limit.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount. Refer to the QC report for details.

The following sample was diluted due to the nature of the sample matrix: LL2SB-513M-0102-SO. Elevated reporting limits (RLs) are provided.

No other difficulties were encountered during the SVOCs analyses. All other quality control parameters were within the acceptance limits.

CHLORINATED PESTICIDES

Samples CHASS-0001M-0001-SO (240-1620-4) and CHASS-0002M-0001-SO (240-1620-5) were analyzed for chlorinated pesticides in accordance with EPA SW-846 Method 8081A DoD. The samples were leached on 07/08/2011, prepared on 07/12/2011 and analyzed on 07/29/2011.

Toxaphene was detected in method blank MB 240-8071/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

DCB Decachlorobiphenyl failed the surrogate recovery criteria high for CHASS-0002M-0001-SOMS (240-1620-5MS). Refer to the QC report for details.

Samples CHASS-0001M-0001-SO (240-1620-4)[2X] and CHASS-0002M-0001-SO (240-1620-5)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Either TCMX (surrogate) and / or DCB (surrogate) results are reported from the confirmation column for the associated samplesCHASS-0001M-0001-SO, CHASS-0002M-0001-SO and batch 8071 method blank (MB), laboratory control sample (LCS), matrix spike (MS), and matrix spike duplicate(MSD)

The closing continuing calibration verification (CCV) for analytical batch 8071 exceeded control criteria. Heptachlor, DDT, Endrin aldehyde, Methoxychlor, and Endrin Ketone were biased below the lower control limit. The associated samples CHASS-0001M-0001-SO, CHASS-0002M-0001-SO were non-detect for any analyte; therefore the data have been reported.

No other difficulties were encountered during the pesticides analyses. All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples CHASS-0001M-0001-SO (240-1620-4) and CHASS-0002M-0001-SO (240-1620-5) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082 DOD. The samples were leached on 07/08/2011, prepared on 07/12/2011 and analyzed on 07/20/2011.

Job ID: 240-1620-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

No difficulties were encountered during the PCBs analyses. All quality control parameters were within the acceptance limits.

TOTAL METALS (ICPMS)

Samples LL3SB-415M-0101-SO (240-1620-1), LL3SB-415M-0102-SO (240-1620-2), LL3SB-415M-0103-SO (240-1620-3), CHASS-0001M-0001-SO (240-1620-4) and CHASS-0002M-0001-SO (240-1620-5) were analyzed for total metals (ICPMS) in accordance with EPA SW-846 Method 6020 DoD. The samples were leached on 07/08/2011, prepared on 07/15/2011 and analyzed on 08/25/2011, 08/26/2011 and 08/29/2011.

Nickel was detected in method blank MB 240-8611/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

Barium, Manganese and Zinc failed the recovery criteria low for the MS and Manganese and Zinc failed the recovery criteria low for the MSD of sample 240-1728-14 in batch 240-13699. Refer to the QC report for details.

The following sample(s) was diluted due to the nature of the sample matrix: LL2SS-516M-0001-SO. Elevated reporting limits (RLs) are provided.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

MERCURY

Samples CHASS-0001M-0001-SO (240-1620-4) and CHASS-0002M-0001-SO (240-1620-5) were analyzed for Mercury in accordance with EPA SW-846 7471A DOD. The samples were leached on 07/08/2011, prepared on 07/15/2011 and analyzed on 07/18/2011.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM

Samples CHASS-0001M-0001-SO (240-1620-4) and CHASS-0002M-0001-SO (240-1620-5) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were leached on 07/08/2011, prepared on 07/18/2011 and analyzed on 07/20/2011.

No difficulties were encountered during the hexavalent chromium analyses. All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples LL3SB-415M-0101-SO (240-1620-1), LL3SB-415M-0102-SO (240-1620-2), LL3SB-415M-0103-SO (240-1620-3), CHASS-0001M-0001-SO (240-1620-4), CHASS-0002M-0001-SO (240-1620-5), CHASS-0001V-0001-SO (240-1620-6) and CHASS-0002V-0001-SO (240-1620-7) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 07/05/2011 and 07/12/2011.

No difficulties were encountered during the % solids analyses. All quality control parameters were within the acceptance limits.

Method Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1620-1

Method	Method Description	Protocol	Laboratory
8260B/DoD	Volatile Organic Compounds (GC/MS)	SW846	TAL NC
8270C/DoD	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NC
8081/DOD	Organochlorine Pesticides (GC)	SW846	TAL NC
8082/DOD	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL NC
8330 (Modified)	Organic Compounds by UV/HPLC	SW846	TAL WSC
8330/8330A	Nitroaromatics & Nitramines: Explosives (8330/A)	SW846	TAL WSC
6020/DOD	Metals (ICP/MS)	SW846	TAL NC
7471/DOD	Mercury (CVAA)	SW846	TAL NC
7196A	Chromium, Hexavalent	SW846	TAL NC
D 2216-90	Moisture, Percent (D2216-90) - AFCEE	ASTM	TAL WSC
Moisture	Percent Moisture	EPA	TAL NC
WS-WC-0050	Nitrocellulose as N by WS-WC-0050	TAL-SOP	TAL WSC

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-SOP = TAL-SOP

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1620-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-1620-1	LL3SB-415M-0101-SO	Solid	06/29/11 13:10	06/29/11 16:40
240-1620-2	LL3SB-415M-0102-SO	Solid	06/29/11 13:10	06/29/11 16:40
240-1620-3	LL3SB-415M-0103-SO	Solid	06/29/11 13:10	06/29/11 16:40
240-1620-4	CHASS-0001M-0001-SO	Solid	06/29/11 12:30	06/29/11 16:40
240-1620-5	CHASS-0002M-0001-SO	Solid	06/29/11 12:30	06/29/11 16:40
240-1620-6	CHASS-0001V-0001-SO	Solid	06/29/11 12:35	06/29/11 16:40
240-1620-7	CHASS-0002V-0001-SO	Solid	06/29/11 12:35	06/29/11 16:40

Detection Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1620-1

Client Sample ID: LL3SB-415M-0101-SO — Lab Sample ID: 240-1620-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	13		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	81		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	81		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	100	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	54		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	52	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	75		6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	13		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	130		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	43		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Naphthalene	8.0		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	110		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	59		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Arsenic	11		0.45	0.047	mg/Kg	1	☼	6020/DOD	Total/NA

Client Sample ID: LL3SB-415M-0102-SO — Lab Sample ID: 240-1620-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	25		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	360		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	400		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	480	M	6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	250		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	220	M	6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	320		6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	65		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	350		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluorene	10		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	210		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Naphthalene	15		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	360		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	110		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Arsenic	13		0.47	0.049	mg/Kg	1	☼	6020/DOD	Total/NA

Client Sample ID: LL3SB-415M-0103-SO — Lab Sample ID: 240-1620-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	6.9		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	89		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	100		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	120	M	6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	55		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	56	M	6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	88		6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	17		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	87		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	50		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	89		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	23		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Arsenic	19		0.47	0.049	mg/Kg	1	☼	6020/DOD	Total/NA

Client Sample ID: CHASS-0001M-0001-SO — Lab Sample ID: 240-1620-4

Client Sample ID: CHASS-0001M-0001-SO (Continued)

Lab Sample ID: 240-1620-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	18	J	50	15	ug/Kg	1	☼	8270C/DoD	Total/NA
Diethyl phthalate	21	J	50	16	ug/Kg	1	☼	8270C/DoD	Total/NA
Bis(2-ethylhexyl) phthalate	80		50	19	ug/Kg	1	☼	8270C/DoD	Total/NA
Aluminum	4900		9.7	2.4	mg/Kg	1	☼	6020/DOD	Total/NA
Antimony	0.062	J	0.19	0.060	mg/Kg	1	☼	6020/DOD	Total/NA
Arsenic	8.1		0.49	0.051	mg/Kg	1	☼	6020/DOD	Total/NA
Barium	27		0.49	0.13	mg/Kg	1	☼	6020/DOD	Total/NA
Beryllium	0.28		0.097	0.0034	mg/Kg	1	☼	6020/DOD	Total/NA
Cadmium	0.042	J	0.19	0.0030	mg/Kg	1	☼	6020/DOD	Total/NA
Calcium	640		190	39	mg/Kg	1	☼	6020/DOD	Total/NA
Chromium	11		0.49	0.16	mg/Kg	1	☼	6020/DOD	Total/NA
Cobalt	5.2		0.097	0.0044	mg/Kg	1	☼	6020/DOD	Total/NA
Copper	13		0.39	0.11	mg/Kg	1	☼	6020/DOD	Total/NA
Iron	15000		49	11	mg/Kg	1	☼	6020/DOD	Total/NA
Lead	8.3		0.29	0.068	mg/Kg	1	☼	6020/DOD	Total/NA
Magnesium	1300		97	8.6	mg/Kg	1	☼	6020/DOD	Total/NA
Manganese	220		0.49	0.16	mg/Kg	1	☼	6020/DOD	Total/NA
Nickel	14		0.49	0.084	mg/Kg	1	☼	6020/DOD	Total/NA
Potassium	590		97	3.6	mg/Kg	1	☼	6020/DOD	Total/NA
Selenium	0.75		0.49	0.020	mg/Kg	1	☼	6020/DOD	Total/NA
Sodium	27	J	97	14	mg/Kg	1	☼	6020/DOD	Total/NA
Thallium	0.099	J	0.19	0.055	mg/Kg	1	☼	6020/DOD	Total/NA
Vanadium	10		0.49	0.042	mg/Kg	1	☼	6020/DOD	Total/NA
Zinc	40		3.9	0.97	mg/Kg	1	☼	6020/DOD	Total/NA
Mercury	0.020	J	0.081	0.011	mg/Kg	1	☼	7471/DOD	Total/NA
Hexavalent chromium	0.32	J	0.81	0.27	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: CHASS-0002M-0001-SO

Lab Sample ID: 240-1620-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	22	J	50	15	ug/Kg	1	☼	8270C/DoD	Total/NA
Diethyl phthalate	26	J M	50	16	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	7.3		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Bis(2-ethylhexyl) phthalate	81		50	19	ug/Kg	1	☼	8270C/DoD	Total/NA
Aluminum	4700		9.3	2.3	mg/Kg	1	☼	6020/DOD	Total/NA
Antimony	0.059	J	0.19	0.057	mg/Kg	1	☼	6020/DOD	Total/NA
Arsenic	8.4		0.46	0.048	mg/Kg	1	☼	6020/DOD	Total/NA
Barium	28		0.46	0.12	mg/Kg	1	☼	6020/DOD	Total/NA
Beryllium	0.28		0.093	0.0032	mg/Kg	1	☼	6020/DOD	Total/NA
Cadmium	0.052	J	0.19	0.0029	mg/Kg	1	☼	6020/DOD	Total/NA
Calcium	630		190	37	mg/Kg	1	☼	6020/DOD	Total/NA
Chromium	9.8		0.46	0.15	mg/Kg	1	☼	6020/DOD	Total/NA
Cobalt	4.7		0.093	0.0042	mg/Kg	1	☼	6020/DOD	Total/NA
Copper	13		0.37	0.10	mg/Kg	1	☼	6020/DOD	Total/NA
Iron	15000		46	10	mg/Kg	1	☼	6020/DOD	Total/NA
Lead	8.2		0.28	0.065	mg/Kg	1	☼	6020/DOD	Total/NA
Magnesium	1200		93	8.2	mg/Kg	1	☼	6020/DOD	Total/NA
Manganese	220		0.46	0.15	mg/Kg	1	☼	6020/DOD	Total/NA
Nickel	13		0.46	0.080	mg/Kg	1	☼	6020/DOD	Total/NA
Potassium	540		93	3.5	mg/Kg	1	☼	6020/DOD	Total/NA
Selenium	0.70		0.46	0.019	mg/Kg	1	☼	6020/DOD	Total/NA
Sodium	24	J	93	13	mg/Kg	1	☼	6020/DOD	Total/NA
Thallium	0.088	J	0.19	0.052	mg/Kg	1	☼	6020/DOD	Total/NA
Vanadium	9.7		0.46	0.040	mg/Kg	1	☼	6020/DOD	Total/NA

Client Sample ID: CHASS-0002M-0001-SO (Continued) — Lab Sample ID: 240-1620-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Zinc	42		3.7	0.93	mg/Kg	1	☼	6020/DOD	Total/NA
Mercury	0.017	J	0.067	0.0094	mg/Kg	1	☼	7471/DOD	Total/NA

Client Sample ID: CHASS-0001V-0001-SO — Lab Sample ID: 240-1620-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone	110	J	1100	46	ug/Kg	1	☼	8260B/DoD	Total/NA
Methylene Chloride	83	J	270	82	ug/Kg	1	☼	8260B/DoD	Total/NA

Client Sample ID: CHASS-0002V-0001-SO — Lab Sample ID: 240-1620-7

No Detections

Client Sample ID: CHASS-0001M-0001-SO — Lab Sample ID: G1G120502001X

No Detections

Client Sample ID: LL3SB-415M-0101-SO

Date Collected: 06/29/11 13:10
Date Received: 06/29/11 16:40

Lab Sample ID: 240-1620-1

Matrix: Solid
Percent Solids: 98.3

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.4	U	6.8	3.4	ug/Kg	☼	07/12/11 10:53	07/31/11 14:00	1
Acenaphthylene	3.4	U	6.8	3.4	ug/Kg	☼	07/12/11 10:53	07/31/11 14:00	1
Anthracene	**13**		6.8	3.4	ug/Kg	☼	07/12/11 10:53	07/31/11 14:00	1
Benzo[a]anthracene	**81**		6.8	3.4	ug/Kg	☼	07/12/11 10:53	07/31/11 14:00	1
Benzo[a]pyrene	**81**		6.8	3.4	ug/Kg	☼	07/12/11 10:53	07/31/11 14:00	1
Benzo[b]fluoranthene	**100**	**M**	6.8	3.4	ug/Kg	☼	07/12/11 10:53	07/31/11 14:00	1
Benzo[g,h,i]perylene	**54**		6.8	3.4	ug/Kg	☼	07/12/11 10:53	07/31/11 14:00	1
Benzo[k]fluoranthene	**52**	**M**	6.8	3.4	ug/Kg	☼	07/12/11 10:53	07/31/11 14:00	1
Chrysene	**75**		6.8	1.1	ug/Kg	☼	07/12/11 10:53	07/31/11 14:00	1
Dibenz(a,h)anthracene	**13**		6.8	3.4	ug/Kg	☼	07/12/11 10:53	07/31/11 14:00	1
Fluoranthene	**130**		6.8	3.4	ug/Kg	☼	07/12/11 10:53	07/31/11 14:00	1
Fluorene	3.4	U	6.8	3.4	ug/Kg	☼	07/12/11 10:53	07/31/11 14:00	1
Indeno[1,2,3-cd]pyrene	**43**		6.8	3.4	ug/Kg	☼	07/12/11 10:53	07/31/11 14:00	1
Naphthalene	**8.0**		6.8	3.4	ug/Kg	☼	07/12/11 10:53	07/31/11 14:00	1
Pyrene	**110**		6.8	3.4	ug/Kg	☼	07/12/11 10:53	07/31/11 14:00	1
Phenanthrene	**59**		6.8	3.4	ug/Kg	☼	07/12/11 10:53	07/31/11 14:00	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*		*45 - 105*	*07/12/11 10:53*	*07/31/11 14:00*	*1*
2-Fluorophenol (Surr)	*72*		*35 - 105*	*07/12/11 10:53*	*07/31/11 14:00*	*1*
Nitrobenzene-d5 (Surr)	*56*		*35 - 100*	*07/12/11 10:53*	*07/31/11 14:00*	*1*
Terphenyl-d14 (Surr)	*79*		*30 - 125*	*07/12/11 10:53*	*07/31/11 14:00*	*1*
2,4,6-Tribromophenol (Surr)	*54*		*35 - 125*	*07/12/11 10:53*	*07/31/11 14:00*	*1*
Phenol-d5 (Surr)	*74*		*40 - 100*	*07/12/11 10:53*	*07/31/11 14:00*	*1*

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**11**		0.45	0.047	mg/Kg	☼	07/15/11 12:40	08/25/11 23:48	1

Client Sample ID: LL3SB-415M-0102-SO

Date Collected: 06/29/11 13:10
Date Received: 06/29/11 16:40

Lab Sample ID: 240-1620-2

Matrix: Solid
Percent Solids: 98.8

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:19	1
Acenaphthylene	3.3	U	6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:19	1
Anthracene	**25**		6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:19	1
Benzo[a]anthracene	**360**		6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:19	1
Benzo[a]pyrene	**400**		6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:19	1
Benzo[b]fluoranthene	**480**	**M**	6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:19	1
Benzo[g,h,i]perylene	**250**		6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:19	1
Benzo[k]fluoranthene	**220**	**M**	6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:19	1
Chrysene	**320**		6.8	1.1	ug/Kg	☼	07/12/11 10:53	07/31/11 14:19	1
Dibenz(a,h)anthracene	**65**		6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:19	1
Fluoranthene	**350**		6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:19	1
Fluorene	**10**		6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:19	1
Indeno[1,2,3-cd]pyrene	**210**		6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:19	1
Naphthalene	**15**		6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:19	1
Pyrene	**360**		6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:19	1

Client Sample ID: LL3SB-415M-0102-SO

Date Collected: 06/29/11 13:10
Date Received: 06/29/11 16:40

Lab Sample ID: 240-1620-2

Matrix: Solid
Percent Solids: 98.8

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	110		6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:19	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*60*		*45 - 105*	*07/12/11 10:53*	*07/31/11 14:19*	*1*
2-Fluorophenol (Surr)	*66*		*35 - 105*	*07/12/11 10:53*	*07/31/11 14:19*	*1*
Nitrobenzene-d5 (Surr)	*57*		*35 - 100*	*07/12/11 10:53*	*07/31/11 14:19*	*1*
Terphenyl-d14 (Surr)	*76*		*30 - 125*	*07/12/11 10:53*	*07/31/11 14:19*	*1*
2,4,6-Tribromophenol (Surr)	*51*		*35 - 125*	*07/12/11 10:53*	*07/31/11 14:19*	*1*
Phenol-d5 (Surr)	*69*		*40 - 100*	*07/12/11 10:53*	*07/31/11 14:19*	*1*

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		0.47	0.049	mg/Kg	☼	07/15/11 12:40	08/25/11 23:52	1

Client Sample ID: LL3SB-415M-0103-SO

Date Collected: 06/29/11 13:10
Date Received: 06/29/11 16:40

Lab Sample ID: 240-1620-3

Matrix: Solid
Percent Solids: 98.6

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:38	1
Acenaphthylene	3.3	U	6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:38	1
Anthracene	6.9		6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:38	1
Benzo[a]anthracene	89		6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:38	1
Benzo[a]pyrene	100		6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:38	1
Benzo[b]fluoranthene	120	M	6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:38	1
Benzo[g,h,i]perylene	55		6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:38	1
Benzo[k]fluoranthene	56	M	6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:38	1
Chrysene	88		6.8	1.1	ug/Kg	☼	07/12/11 10:53	07/31/11 14:38	1
Dibenz(a,h)anthracene	17		6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:38	1
Fluoranthene	87		6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:38	1
Fluorene	3.3	U	6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:38	1
Indeno[1,2,3-cd]pyrene	50		6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:38	1
Naphthalene	3.3	U	6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:38	1
Pyrene	89		6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:38	1
Phenanthrene	23		6.8	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 14:38	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*52*		*45 - 105*	*07/12/11 10:53*	*07/31/11 14:38*	*1*
2-Fluorophenol (Surr)	*62*		*35 - 105*	*07/12/11 10:53*	*07/31/11 14:38*	*1*
Nitrobenzene-d5 (Surr)	*48*		*35 - 100*	*07/12/11 10:53*	*07/31/11 14:38*	*1*
Terphenyl-d14 (Surr)	*64*		*30 - 125*	*07/12/11 10:53*	*07/31/11 14:38*	*1*
2,4,6-Tribromophenol (Surr)	*45*		*35 - 125*	*07/12/11 10:53*	*07/31/11 14:38*	*1*
Phenol-d5 (Surr)	*61*		*40 - 100*	*07/12/11 10:53*	*07/31/11 14:38*	*1*

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	19		0.47	0.049	mg/Kg	☼	07/15/11 12:40	08/25/11 23:57	1

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1620-1

Client Sample ID: CHASS-0001M-0001-SO
Date Collected: 06/29/11 12:30
Date Received: 06/29/11 16:40

Lab Sample ID: 240-1620-4
Matrix: Solid
Percent Solids: 99.1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Benzo[a]anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Benzoic acid	340	U M	670	340	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Benzo[b]fluoranthene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Benzo[k]fluoranthene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Benzyl alcohol	27	U	330	21	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Bis(2-chloroethoxy)methane	27	U	100	22	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Bis(2-chloroethyl)ether	3.3	U	100	2.0	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
4-Bromophenyl phenyl ether	27	U	50	13	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Butyl benzyl phthalate	27	U	50	10	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
2,4-Dimethylphenol	81	U	150	20	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Dimethyl phthalate	27	U	50	17	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
4,6-Dinitro-2-methylphenol	81	U	150	81	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
2,4-Dinitrophenol	81	U	330	81	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
2,4-Dinitrotoluene	27	U	200	27	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
2,6-Dinitrotoluene	27	U	200	21	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Fluoranthene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Fluorene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Hexachlorobenzene	3.3	U	6.7	2.1	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Hexachlorobutadiene	27	U	50	27	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Hexachlorocyclopentadiene	27	U	330	27	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Hexachloroethane	27	U	50	9.1	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
N-Nitrosodiphenylamine	27	U	50	21	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
N-Nitrosodi-n-propylamine	27	U	50	27	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
1,4-Dichlorobenzene	27	U	50	20	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
2-Chloronaphthalene	3.3	U	50	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
2-Chlorophenol	27	U	50	27	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
4-Chlorophenyl phenyl ether	27	U	50	13	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Chrysene	3.3	U	6.7	1.1	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Dibenzofuran	3.3	U	50	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Benzo[g,h,i]perylene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Benzo[a]pyrene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Di-n-butyl phthalate	**18**	**J**	50	15	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
1,2-Dichlorobenzene	27	U	50	9.8	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
1,3-Dichlorobenzene	27	U	50	11	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
3,3'-Dichlorobenzidine	81	U	100	18	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
2,4-Dichlorophenol	27	U	150	20	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Diethyl phthalate	**21**	**J**	50	16	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Indeno[1,2,3-cd]pyrene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Isophorone	27	U	50	13	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
2-Methylnaphthalene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
2-Methylphenol	81	U	200	81	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
2-Nitroaniline	27	U	200	9.2	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
3-Nitroaniline	81	U	200	16	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
4-Nitroaniline	27	U	200	26	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Nitrobenzene	3.3	U	100	2.2	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1

Client Sample ID: CHASS-0001M-0001-SO
Date Collected: 06/29/11 12:30
Date Received: 06/29/11 16:40

Lab Sample ID: 240-1620-4
Matrix: Solid
Percent Solids: 99.1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	27	U	50	27	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
4-Nitrophenol	81	U	330	81	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Pyrene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Pentachlorophenol	81	U	150	81	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Phenanthrene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
1,2,4-Trichlorobenzene	27	U	50	27	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
2,4,5-Trichlorophenol	27	U	150	25	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
2,4,6-Trichlorophenol	81	U	150	81	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Phenol	27	U	50	27	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Carbazole	27	U	50	27	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
4-Chloroaniline	27	U	150	17	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
3 & 4 Methylphenol	81	U	400	20	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Bis(2-ethylhexyl) phthalate	**80**		50	19	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
Di-n-octyl phthalate	27	U	50	27	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
4-Chloro-3-methylphenol	27	U	150	21	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1
bis (2-Chloroisopropyl) ether	27	U	100	9.6	ug/Kg	☼	07/12/11 10:53	07/31/11 13:23	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*55*		*45 - 105*	*07/12/11 10:53*	*07/31/11 13:23*	*1*
2-Fluorophenol (Surr)	*67*		*35 - 105*	*07/12/11 10:53*	*07/31/11 13:23*	*1*
Nitrobenzene-d5 (Surr)	*55*		*35 - 100*	*07/12/11 10:53*	*07/31/11 13:23*	*1*
Terphenyl-d14 (Surr)	*71*		*30 - 125*	*07/12/11 10:53*	*07/31/11 13:23*	*1*
2,4,6-Tribromophenol (Surr)	*48*		*35 - 125*	*07/12/11 10:53*	*07/31/11 13:23*	*1*
Phenol-d5 (Surr)	*69*		*40 - 100*	*07/12/11 10:53*	*07/31/11 13:23*	*1*

Method: 8081/DOD - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	1.4	U	4.0	1.3	ug/Kg	☼	07/12/11 10:41	07/29/11 07:33	2
4,4'-DDE	1.4	U	3.4	0.79	ug/Kg	☼	07/12/11 10:41	07/29/11 07:33	2
4,4'-DDT	1.4	U	4.0	1.3	ug/Kg	☼	07/12/11 10:41	07/29/11 07:33	2
Aldrin	2.7	U	8.1	2.4	ug/Kg	☼	07/12/11 10:41	07/29/11 07:33	2
alpha-BHC	2.7	U	5.0	1.5	ug/Kg	☼	07/12/11 10:41	07/29/11 07:33	2
alpha-Chlordane	2.7	U	6.1	1.9	ug/Kg	☼	07/12/11 10:41	07/29/11 07:33	2
beta-BHC	2.7	U	7.1	2.2	ug/Kg	☼	07/12/11 10:41	07/29/11 07:33	2
delta-BHC	2.7	U	8.1	2.4	ug/Kg	☼	07/12/11 10:41	07/29/11 07:33	2
Dieldrin	1.4	U	3.4	0.95	ug/Kg	☼	07/12/11 10:41	07/29/11 07:33	2
Endosulfan I	1.4	U	3.4	1.0	ug/Kg	☼	07/12/11 10:41	07/29/11 07:33	2
Endosulfan II	2.7	U	5.0	1.7	ug/Kg	☼	07/12/11 10:41	07/29/11 07:33	2
Endosulfan sulfate	2.7	U	6.1	1.8	ug/Kg	☼	07/12/11 10:41	07/29/11 07:33	2
Endrin	1.4	U	3.4	1.0	ug/Kg	☼	07/12/11 10:41	07/29/11 07:33	2
Endrin aldehyde	2.7	U	6.1	2.0	ug/Kg	☼	07/12/11 10:41	07/29/11 07:33	2
Endrin ketone	1.4	U	4.0	1.3	ug/Kg	☼	07/12/11 10:41	07/29/11 07:33	2
gamma-BHC (Lindane)	2.7	U	5.0	1.5	ug/Kg	☼	07/12/11 10:41	07/29/11 07:33	2
gamma-Chlordane	1.4	U	3.4	0.85	ug/Kg	☼	07/12/11 10:41	07/29/11 07:33	2
Heptachlor	2.7	U	7.1	2.2	ug/Kg	☼	07/12/11 10:41	07/29/11 07:33	2
Heptachlor epoxide	2.7	U	5.0	1.6	ug/Kg	☼	07/12/11 10:41	07/29/11 07:33	2
Methoxychlor	6.7	U	10	3.0	ug/Kg	☼	07/12/11 10:41	07/29/11 07:33	2
Toxaphene	40	U	140	38	ug/Kg	☼	07/12/11 10:41	07/29/11 07:33	2

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*146*	*Q*	*55 - 130*	*07/12/11 10:41*	*07/29/11 07:33*	*2*

Client Sample ID: CHASS-0001M-0001-SO
Date Collected: 06/29/11 12:30
Date Received: 06/29/11 16:40

Lab Sample ID: 240-1620-4
Matrix: Solid
Percent Solids: 99.1

Method: 8081/DOD - Organochlorine Pesticides (GC) (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*114*		*55 - 130*	*07/12/11 10:41*	*07/29/11 07:33*	*2*
Tetrachloro-m-xylene	*96*		*70 - 125*	*07/12/11 10:41*	*07/29/11 07:33*	*2*
Tetrachloro-m-xylene	*43*	*Q*	*70 - 125*	*07/12/11 10:41*	*07/29/11 07:33*	*2*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/20/11 20:01	1
Aroclor 1221	25	U	50	16	ug/Kg	☼	07/12/11 09:19	07/20/11 20:01	1
Aroclor 1232	25	U	45	14	ug/Kg	☼	07/12/11 09:19	07/20/11 20:01	1
Aroclor 1242	25	U	40	13	ug/Kg	☼	07/12/11 09:19	07/20/11 20:01	1
Aroclor 1248	25	U	55	17	ug/Kg	☼	07/12/11 09:19	07/20/11 20:01	1
Aroclor 1254	25	U	55	17	ug/Kg	☼	07/12/11 09:19	07/20/11 20:01	1
Aroclor 1260	25	U	55	17	ug/Kg	☼	07/12/11 09:19	07/20/11 20:01	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*87*		*40 - 140*	*07/12/11 09:19*	*07/20/11 20:01*	*1*
Tetrachloro-m-xylene	*86*		*40 - 140*	*07/12/11 09:19*	*07/20/11 20:01*	*1*
DCB Decachlorobiphenyl	*88*		*60 - 125*	*07/12/11 09:19*	*07/20/11 20:01*	*1*
DCB Decachlorobiphenyl	*113*		*60 - 125*	*07/12/11 09:19*	*07/20/11 20:01*	*1*

Method: 8330 (Modified) - Organic Compounds by UV/HPLC

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	0.040 U		0.25	0.020	mg/kg		07/14/11 09:55	07/27/11 15:00	1

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.10 U		0.25	0.020	mg/kg		07/14/11 09:50	07/27/11 09:49	1
1,3-Dinitrobenzene	0.10 U		0.25	0.050	mg/kg		07/14/11 09:50	07/27/11 09:49	1
2,4,6-Trinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/14/11 09:50	07/27/11 09:49	1
2,4-Dinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/14/11 09:50	07/27/11 09:49	1
2,6-Dinitrotoluene	0.10 U		0.25	0.030	mg/kg		07/14/11 09:50	07/27/11 09:49	1
2-Amino-4,6-dinitrotoluene	0.10 U		0.25	0.10	mg/kg		07/14/11 09:50	07/27/11 09:49	1
2-Nitrotoluene	0.10 U		0.25	0.080	mg/kg		07/14/11 09:50	07/27/11 09:49	1
3-Nitrotoluene	0.10 U		0.25	0.070	mg/kg		07/14/11 09:50	07/27/11 09:49	1
4-Amino-2,6-dinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/14/11 09:50	07/27/11 09:49	1
4-Nitrotoluene	0.10 U		0.25	0.080	mg/kg		07/14/11 09:50	07/27/11 09:49	1
HMX	0.10 U		0.25	0.030	mg/kg		07/14/11 09:50	07/27/11 09:49	1
Nitrobenzene	0.10 U		0.25	0.050	mg/kg		07/14/11 09:50	07/27/11 09:49	1
Nitroglycerin	0.25 U		0.50	0.13	mg/kg		07/14/11 09:50	07/27/11 09:49	1
PETN	0.25 U		0.50	0.16	mg/kg		07/14/11 09:50	07/27/11 09:49	1
RDX	0.10 U		0.25	0.040	mg/kg		07/14/11 09:50	07/27/11 09:49	1
Tetryl	0.10 U		0.25	0.050	mg/kg		07/14/11 09:50	07/27/11 09:49	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
3,4-Dinitrotoluene	*91*		*78 - 108*	*07/14/11 09:50*	*07/27/11 09:49*	*1*

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4900**		9.7	2.4	mg/Kg	☼	07/15/11 12:40	08/29/11 15:19	1
Antimony	**0.062**	**J**	0.19	0.060	mg/Kg	☼	07/15/11 12:40	08/26/11 00:13	1
Arsenic	**8.1**		0.49	0.051	mg/Kg	☼	07/15/11 12:40	08/26/11 00:13	1

Client Sample ID: CHASS-0001M-0001-SO

Date Collected: 06/29/11 12:30
Date Received: 06/29/11 16:40

Lab Sample ID: 240-1620-4

Matrix: Solid
Percent Solids: 99.1

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	27		0.49	0.13	mg/Kg	☼	07/15/11 12:40	08/26/11 00:13	1
Beryllium	0.28		0.097	0.0034	mg/Kg	☼	07/15/11 12:40	08/29/11 15:19	1
Cadmium	0.042	J	0.19	0.0030	mg/Kg	☼	07/15/11 12:40	08/29/11 15:19	1
Calcium	640		190	39	mg/Kg	☼	07/15/11 12:40	08/26/11 00:13	1
Chromium	11		0.49	0.16	mg/Kg	☼	07/15/11 12:40	08/26/11 00:13	1
Cobalt	5.2		0.097	0.0044	mg/Kg	☼	07/15/11 12:40	08/29/11 15:19	1
Copper	13		0.39	0.11	mg/Kg	☼	07/15/11 12:40	08/26/11 00:13	1
Iron	15000		49	11	mg/Kg	☼	07/15/11 12:40	08/26/11 00:13	1
Lead	8.3		0.29	0.068	mg/Kg	☼	07/15/11 12:40	08/26/11 00:13	1
Magnesium	1300		97	8.6	mg/Kg	☼	07/15/11 12:40	08/26/11 00:13	1
Manganese	220		0.49	0.16	mg/Kg	☼	07/15/11 12:40	08/26/11 00:13	1
Nickel	14		0.49	0.084	mg/Kg	☼	07/15/11 12:40	08/26/11 00:13	1
Potassium	590		97	3.6	mg/Kg	☼	07/15/11 12:40	08/26/11 00:13	1
Selenium	0.75		0.49	0.020	mg/Kg	☼	07/15/11 12:40	08/26/11 00:13	1
Silver	0.049	U	0.097	0.016	mg/Kg	☼	07/15/11 12:40	08/29/11 15:19	1
Sodium	27	J	97	14	mg/Kg	☼	07/15/11 12:40	08/26/11 00:13	1
Thallium	0.099	J	0.19	0.055	mg/Kg	☼	07/15/11 12:40	08/26/11 00:13	1
Vanadium	10		0.49	0.042	mg/Kg	☼	07/15/11 12:40	08/26/11 00:13	1
Zinc	40		3.9	0.97	mg/Kg	☼	07/15/11 12:40	08/29/11 15:19	1

Method: 7471/DOD - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	J	0.081	0.011	mg/Kg	☼	07/15/11 15:30	07/18/11 17:22	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	0.32	J	0.81	0.27	mg/Kg	☼	07/18/11 14:13	07/20/11 16:12	1

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	2.3 U		6.2	0.96	mg/kg	☼	07/20/11 05:35	07/21/11 12:39	1

Client Sample ID: CHASS-0002M-0001-SO

Date Collected: 06/29/11 12:30
Date Received: 06/29/11 16:40

Lab Sample ID: 240-1620-5

Matrix: Solid
Percent Solids: 99.0

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Benzo[a]anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Benzoic acid	340	U	670	340	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Benzo[b]fluoranthene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Benzo[k]fluoranthene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Benzyl alcohol	27	U	330	21	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Bis(2-chloroethoxy)methane	27	U	100	22	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Bis(2-chloroethyl)ether	3.3	U	100	2.0	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
4-Bromophenyl phenyl ether	27	U	50	13	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Butyl benzyl phthalate	27	U	50	10	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
2,4-Dimethylphenol	81	U	150	20	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Dimethyl phthalate	27	U	50	17	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1

Client Sample ID: CHASS-0002M-0001-SO
Date Collected: 06/29/11 12:30
Date Received: 06/29/11 16:40

Lab Sample ID: 240-1620-5
Matrix: Solid
Percent Solids: 99.0

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	81	U	150	81	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
2,4-Dinitrophenol	81	U	330	81	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
2,4-Dinitrotoluene	27	U	200	27	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
2,6-Dinitrotoluene	27	U	200	21	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Fluoranthene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Fluorene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Hexachlorobenzene	3.3	U	6.7	2.1	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Hexachlorobutadiene	27	U	50	27	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Hexachlorocyclopentadiene	27	U	330	27	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Hexachloroethane	27	U	50	9.1	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
N-Nitrosodiphenylamine	27	U	50	21	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
N-Nitrosodi-n-propylamine	27	U	50	27	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
1,4-Dichlorobenzene	27	U	50	20	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
2-Chloronaphthalene	3.3	U	50	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
2-Chlorophenol	27	U	50	27	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
4-Chlorophenyl phenyl ether	27	U	50	13	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Chrysene	3.3	U	6.7	1.1	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Dibenzofuran	3.3	U	50	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Benzo[g,h,i]perylene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Benzo[a]pyrene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Di-n-butyl phthalate	**22**	**J**	50	15	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
1,2-Dichlorobenzene	27	U	50	9.8	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
1,3-Dichlorobenzene	27	U	50	11	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
3,3'-Dichlorobenzidine	81	U	100	18	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
2,4-Dichlorophenol	27	U	150	20	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Diethyl phthalate	**26**	**J M**	50	16	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Indeno[1,2,3-cd]pyrene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Isophorone	27	U	50	13	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
2-Methylnaphthalene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
2-Methylphenol	81	U	200	81	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
2-Nitroaniline	27	U	200	9.2	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
3-Nitroaniline	81	U	200	16	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
4-Nitroaniline	27	U	200	26	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Nitrobenzene	3.3	U	100	2.2	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
2-Nitrophenol	27	U	50	27	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
4-Nitrophenol	81	U	330	81	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Pyrene	3.3	U	6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Pentachlorophenol	81	U	150	81	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Phenanthrene	**7.3**		6.7	3.3	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
1,2,4-Trichlorobenzene	27	U	50	27	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
2,4,5-Trichlorophenol	27	U	150	25	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
2,4,6-Trichlorophenol	81	U	150	81	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Phenol	27	U M	50	27	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Carbazole	27	U	50	27	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
4-Chloroaniline	27	U	150	17	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
3 & 4 Methylphenol	81	U	400	20	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Bis(2-ethylhexyl) phthalate	**81**		50	19	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
Di-n-octyl phthalate	27	U	50	27	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1

Client Sample ID: CHASS-0002M-0001-SO
Date Collected: 06/29/11 12:30
Date Received: 06/29/11 16:40

Lab Sample ID: 240-1620-5
Matrix: Solid
Percent Solids: 99.0

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	27	U	150	21	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1
bis (2-Chloroisopropyl) ether	27	U	100	9.6	ug/Kg	☼	07/12/11 10:53	07/31/11 13:42	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*57*	*M*	*45 - 105*	*07/12/11 10:53*	*07/31/11 13:42*	*1*
2-Fluorophenol (Surr)	*69*	*M*	*35 - 105*	*07/12/11 10:53*	*07/31/11 13:42*	*1*
Nitrobenzene-d5 (Surr)	*54*	*M*	*35 - 100*	*07/12/11 10:53*	*07/31/11 13:42*	*1*
Terphenyl-d14 (Surr)	*73*		*30 - 125*	*07/12/11 10:53*	*07/31/11 13:42*	*1*
2,4,6-Tribromophenol (Surr)	*49*	*M*	*35 - 125*	*07/12/11 10:53*	*07/31/11 13:42*	*1*
Phenol-d5 (Surr)	*71*	*M*	*40 - 100*	*07/12/11 10:53*	*07/31/11 13:42*	*1*

Method: 8081/DOD - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	1.4	U	4.0	1.3	ug/Kg	☼	07/12/11 10:41	07/29/11 08:02	2
4,4'-DDE	1.4	U J	3.4	0.79	ug/Kg	☼	07/12/11 10:41	07/29/11 08:02	2
4,4'-DDT	1.4	U	4.0	1.3	ug/Kg	☼	07/12/11 10:41	07/29/11 08:02	2
Aldrin	2.7	U J	8.1	2.4	ug/Kg	☼	07/12/11 10:41	07/29/11 08:02	2
alpha-BHC	2.7	U J	5.0	1.5	ug/Kg	☼	07/12/11 10:41	07/29/11 08:02	2
alpha-Chlordane	2.7	U J	6.1	1.9	ug/Kg	☼	07/12/11 10:41	07/29/11 08:02	2
beta-BHC	2.7	U J	7.1	2.2	ug/Kg	☼	07/12/11 10:41	07/29/11 08:02	2
delta-BHC	2.7	U J	8.1	2.4	ug/Kg	☼	07/12/11 10:41	07/29/11 08:02	2
Dieldrin	1.4	U J	3.4	0.95	ug/Kg	☼	07/12/11 10:41	07/29/11 08:02	2
Endosulfan I	1.4	U	3.4	1.0	ug/Kg	☼	07/12/11 10:41	07/29/11 08:02	2
Endosulfan II	2.7	U	5.0	1.7	ug/Kg	☼	07/12/11 10:41	07/29/11 08:02	2
Endosulfan sulfate	2.7	U	6.1	1.8	ug/Kg	☼	07/12/11 10:41	07/29/11 08:02	2
Endrin	1.4	U	3.4	1.0	ug/Kg	☼	07/12/11 10:41	07/29/11 08:02	2
Endrin aldehyde	2.7	U	6.1	2.0	ug/Kg	☼	07/12/11 10:41	07/29/11 08:02	2
Endrin ketone	1.4	U	4.0	1.3	ug/Kg	☼	07/12/11 10:41	07/29/11 08:02	2
gamma-BHC (Lindane)	2.7	U J	5.0	1.5	ug/Kg	☼	07/12/11 10:41	07/29/11 08:02	2
gamma-Chlordane	1.4	U J	3.4	0.85	ug/Kg	☼	07/12/11 10:41	07/29/11 08:02	2
Heptachlor	2.7	U	7.1	2.2	ug/Kg	☼	07/12/11 10:41	07/29/11 08:02	2
Heptachlor epoxide	2.7	U J	5.0	1.6	ug/Kg	☼	07/12/11 10:41	07/29/11 08:02	2
Methoxychlor	6.7	U	10	3.0	ug/Kg	☼	07/12/11 10:41	07/29/11 08:02	2
Toxaphene	40	U	140	38	ug/Kg	☼	07/12/11 10:41	07/29/11 08:02	2

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*145*	*Q*	*55 - 130*	*07/12/11 10:41*	*07/29/11 08:02*	*2*
DCB Decachlorobiphenyl	*114*		*55 - 130*	*07/12/11 10:41*	*07/29/11 08:02*	*2*
Tetrachloro-m-xylene	*561*	*Q*	*70 - 125*	*07/12/11 10:41*	*07/29/11 08:02*	*2*
Tetrachloro-m-xylene	*96*		*70 - 125*	*07/12/11 10:41*	*07/29/11 08:02*	*2*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/20/11 20:15	1
Aroclor 1221	25	U	50	16	ug/Kg	☼	07/12/11 09:19	07/20/11 20:15	1
Aroclor 1232	25	U	45	14	ug/Kg	☼	07/12/11 09:19	07/20/11 20:15	1
Aroclor 1242	25	U	40	13	ug/Kg	☼	07/12/11 09:19	07/20/11 20:15	1
Aroclor 1248	25	U	55	17	ug/Kg	☼	07/12/11 09:19	07/20/11 20:15	1
Aroclor 1254	25	U	55	17	ug/Kg	☼	07/12/11 09:19	07/20/11 20:15	1
Aroclor 1260	25	U	55	17	ug/Kg	☼	07/12/11 09:19	07/20/11 20:15	1

Client Sample ID: CHASS-0002M-0001-SO
Date Collected: 06/29/11 12:30
Date Received: 06/29/11 16:40

Lab Sample ID: 240-1620-5
Matrix: Solid
Percent Solids: 99.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*40 - 140*	*07/12/11 09:19*	*07/20/11 20:15*	*1*
Tetrachloro-m-xylene	*86*		*40 - 140*	*07/12/11 09:19*	*07/20/11 20:15*	*1*
DCB Decachlorobiphenyl	*95*		*60 - 125*	*07/12/11 09:19*	*07/20/11 20:15*	*1*
DCB Decachlorobiphenyl	*98*		*60 - 125*	*07/12/11 09:19*	*07/20/11 20:15*	*1*

Method: 8330 (Modified) - Organic Compounds by UV/HPLC

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	0.038 U		0.24	0.019	mg/kg		07/14/11 09:55	07/27/11 15:14	0.95

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.098 U		0.24	0.020	mg/kg		07/14/11 09:50	07/27/11 12:30	0.98
1,3-Dinitrobenzene	0.098 U		0.24	0.049	mg/kg		07/14/11 09:50	07/27/11 12:30	0.98
2,4,6-Trinitrotoluene	0.098 U		0.24	0.020	mg/kg		07/14/11 09:50	07/27/11 12:30	0.98
2,4-Dinitrotoluene	0.098 U		0.24	0.020	mg/kg		07/14/11 09:50	07/27/11 12:30	0.98
2,6-Dinitrotoluene	0.098 U		0.24	0.029	mg/kg		07/14/11 09:50	07/27/11 12:30	0.98
2-Amino-4,6-dinitrotoluene	0.098 U		0.24	0.098	mg/kg		07/14/11 09:50	07/27/11 12:30	0.98
2-Nitrotoluene	0.098 U		0.24	0.078	mg/kg		07/14/11 09:50	07/27/11 12:30	0.98
3-Nitrotoluene	0.098 U		0.24	0.069	mg/kg		07/14/11 09:50	07/27/11 12:30	0.98
4-Amino-2,6-dinitrotoluene	0.098 U		0.24	0.020	mg/kg		07/14/11 09:50	07/27/11 12:30	0.98
4-Nitrotoluene	0.098 U		0.24	0.078	mg/kg		07/14/11 09:50	07/27/11 12:30	0.98
HMX	0.098 U		0.24	0.029	mg/kg		07/14/11 09:50	07/27/11 12:30	0.98
Nitrobenzene	0.098 U		0.24	0.049	mg/kg		07/14/11 09:50	07/27/11 12:30	0.98
Nitroglycerin	0.24 U		0.49	0.13	mg/kg		07/14/11 09:50	07/27/11 12:30	0.98
PETN	0.24 U		0.49	0.16	mg/kg		07/14/11 09:50	07/27/11 12:30	0.98
RDX	0.098 U		0.24	0.039	mg/kg		07/14/11 09:50	07/27/11 12:30	0.98
Tetryl	0.098 U		0.24	0.049	mg/kg		07/14/11 09:50	07/27/11 12:30	0.98

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*91*		*78 - 108*	*07/14/11 09:50*	*07/27/11 12:30*	*0.98*

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4700**		9.3	2.3	mg/Kg	☼	07/15/11 12:40	08/29/11 15:23	1
Antimony	**0.059**	**J**	0.19	0.057	mg/Kg	☼	07/15/11 12:40	08/26/11 00:18	1
Arsenic	**8.4**		0.46	0.048	mg/Kg	☼	07/15/11 12:40	08/26/11 00:18	1
Barium	**28**		0.46	0.12	mg/Kg	☼	07/15/11 12:40	08/26/11 00:18	1
Beryllium	**0.28**		0.093	0.0032	mg/Kg	☼	07/15/11 12:40	08/29/11 15:23	1
Cadmium	**0.052**	**J**	0.19	0.0029	mg/Kg	☼	07/15/11 12:40	08/29/11 15:23	1
Calcium	**630**		190	37	mg/Kg	☼	07/15/11 12:40	08/26/11 00:18	1
Chromium	**9.8**		0.46	0.15	mg/Kg	☼	07/15/11 12:40	08/26/11 00:18	1
Cobalt	**4.7**		0.093	0.0042	mg/Kg	☼	07/15/11 12:40	08/29/11 15:23	1
Copper	**13**		0.37	0.10	mg/Kg	☼	07/15/11 12:40	08/26/11 00:18	1
Iron	**15000**		46	10	mg/Kg	☼	07/15/11 12:40	08/26/11 00:18	1
Lead	**8.2**		0.28	0.065	mg/Kg	☼	07/15/11 12:40	08/26/11 00:18	1
Magnesium	**1200**		93	8.2	mg/Kg	☼	07/15/11 12:40	08/26/11 00:18	1
Manganese	**220**		0.46	0.15	mg/Kg	☼	07/15/11 12:40	08/26/11 00:18	1
Nickel	**13**		0.46	0.080	mg/Kg	☼	07/15/11 12:40	08/26/11 00:18	1
Potassium	**540**		93	3.5	mg/Kg	☼	07/15/11 12:40	08/26/11 00:18	1
Selenium	**0.70**		0.46	0.019	mg/Kg	☼	07/15/11 12:40	08/26/11 00:18	1
Silver	0.046	U	0.093	0.015	mg/Kg	☼	07/15/11 12:40	08/29/11 15:23	1
Sodium	**24**	**J**	93	13	mg/Kg	☼	07/15/11 12:40	08/26/11 00:18	1

Client Sample ID: CHASS-0002M-0001-SO

Date Collected: 06/29/11 12:30
Date Received: 06/29/11 16:40

Lab Sample ID: 240-1620-5

Matrix: Solid
Percent Solids: 99.0

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.088	J	0.19	0.052	mg/Kg	☼	07/15/11 12:40	08/26/11 00:18	1
Vanadium	9.7		0.46	0.040	mg/Kg	☼	07/15/11 12:40	08/26/11 00:18	1
Zinc	42		3.7	0.93	mg/Kg	☼	07/15/11 12:40	08/29/11 15:23	1

Method: 7471/DOD - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.067	0.0094	mg/Kg	☼	07/15/11 15:30	07/18/11 17:24	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	0.81	U	0.81	0.27	mg/Kg	☼	07/18/11 14:13	07/20/11 16:13	1

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	2.1 U		5.7	0.89	mg/kg	☼	07/20/11 05:35	07/21/11 12:41	1

Client Sample ID: CHASS-0001V-0001-SO

Date Collected: 06/29/11 12:35
Date Received: 06/29/11 16:40

Lab Sample ID: 240-1620-6

Matrix: Solid
Percent Solids: 85.5

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	11	U	270	22	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
1,1,2,2-Tetrachloroethane	27	U	270	9.5	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
1,1,2-Trichloroethane	27	U	270	13	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
1,1-Dichloroethane	27	U	270	18	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
1,1-Dichloroethene	27	U	270	19	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
1,2-Dichloroethane	27	U	270	11	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
1,2-Dichloroethene, Total	8.7	U	530	8.7	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
1,2-Dichloropropane	11	U	270	8.7	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
2-Butanone	110	J	1100	46	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
2-Hexanone	53	U	1100	21	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
4-Methyl-2-pentanone	110	U	1100	51	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
Acetone	210	U	1100	180	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
Benzene	27	U	270	13	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
Bromoform	27	U	270	20	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
Bromomethane	53	U	270	31	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
Carbon disulfide	27	U	270	13	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
Carbon tetrachloride	11	U	270	6.8	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
Chlorobenzene	11	U	270	6.8	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
Chloromethane	27	U	270	15	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
cis-1,2-Dichloroethene	11	U	270	7.3	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
cis-1,3-Dichloropropene	11	U	270	8.4	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
Dibromochloromethane	27	U	270	13	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
Bromodichloromethane	27	U	270	11	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
Ethylbenzene	11	U	270	5.8	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
Methylene Chloride	83	J	270	82	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
Styrene	11	U	270	6.0	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
Tetrachloroethene	27	U	270	13	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
Toluene	27	U	270	18	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
trans-1,2-Dichloroethene	27	U	270	9.8	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
trans-1,3-Dichloropropene	27	U	270	21	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1

Client Sample ID: CHASS-0001V-0001-SO

Date Collected: 06/29/11 12:35
Date Received: 06/29/11 16:40

Lab Sample ID: 240-1620-6

Matrix: Solid
Percent Solids: 85.5

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	27	U	270	10	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
Vinyl chloride	27	U	270	19	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
Xylenes (total)	32	U	530	8.6	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
Chloroform	27	U	270	9.4	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
Bromochloromethane	27	U	270	14	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
1,2-Dibromoethane	27	U	270	11	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1
Chloroethane	110	U	270	65	ug/Kg	☼	07/07/11 15:43	07/08/11 18:08	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*71*	*Q*	*85 - 115*	*07/07/11 15:43*	*07/08/11 18:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*61 - 130*	*07/07/11 15:43*	*07/08/11 18:08*	*1*
4-Bromofluorobenzene (Surr)	*71*	*Q*	*85 - 120*	*07/07/11 15:43*	*07/08/11 18:08*	*1*
Dibromofluoromethane (Surr)	*65*		*59 - 138*	*07/07/11 15:43*	*07/08/11 18:08*	*1*

Client Sample ID: CHASS-0002V-0001-SO

Date Collected: 06/29/11 12:35
Date Received: 06/29/11 16:40

Lab Sample ID: 240-1620-7

Matrix: Solid
Percent Solids: 84.7

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	11	U	280	24	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
1,1,2,2-Tetrachloroethane	28	U	280	10	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
1,1,2-Trichloroethane	28	U	280	14	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
1,1-Dichloroethane	28	U	280	19	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
1,1-Dichloroethene	28	U	280	20	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
1,2-Dichloroethane	28	U	280	11	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
1,2-Dichloroethene, Total	9.3	U	570	9.3	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
1,2-Dichloropropane	11	U	280	9.3	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
2-Butanone	110	U	1100	49	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
2-Hexanone	57	U	1100	23	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
4-Methyl-2-pentanone	110	U	1100	54	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
Acetone	230	U	1100	190	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
Benzene	28	U	280	14	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
Bromoform	28	U	280	22	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
Bromomethane	57	U	280	33	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
Carbon disulfide	28	U	280	14	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
Carbon tetrachloride	11	U	280	7.2	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
Chlorobenzene	11	U	280	7.2	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
Chloromethane	28	U	280	16	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
cis-1,2-Dichloroethene	11	U	280	7.8	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
cis-1,3-Dichloropropene	11	U	280	8.9	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
Dibromochloromethane	28	U	280	14	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
Bromodichloromethane	28	U	280	11	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
Ethylbenzene	11	U	280	6.1	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
Methylene Chloride	110	U	280	87	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
Styrene	11	U	280	6.3	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
Tetrachloroethene	28	U	280	14	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
Toluene	28	U	280	19	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
trans-1,2-Dichloroethene	28	U	280	10	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
trans-1,3-Dichloropropene	28	U	280	23	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1620-1

Client Sample ID: CHASS-0002V-0001-SO
Date Collected: 06/29/11 12:35
Date Received: 06/29/11 16:40

Lab Sample ID: 240-1620-7
Matrix: Solid
Percent Solids: 84.7

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	28	U	280	11	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
Vinyl chloride	28	U	280	20	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
Xylenes (total)	34	U	570	9.2	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
Chloroform	28	U	280	10	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
Bromochloromethane	28	U	280	15	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
1,2-Dibromoethane	28	U	280	11	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1
Chloroethane	110	U	280	69	ug/Kg	☼	07/07/11 15:43	07/08/11 17:47	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*65*	*Q*	*85 - 115*	*07/07/11 15:43*	*07/08/11 17:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*71*		*61 - 130*	*07/07/11 15:43*	*07/08/11 17:47*	*1*
4-Bromofluorobenzene (Surr)	*64*	*Q*	*85 - 120*	*07/07/11 15:43*	*07/08/11 17:47*	*1*
Dibromofluoromethane (Surr)	*59*		*59 - 138*	*07/07/11 15:43*	*07/08/11 17:47*	*1*

Surrogate Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1620-1

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	BFB	DBFM
Lab Sample ID	Client Sample ID	(85-115)	(61-130)	(85-120)	(59-138)
240-1620-6	CHASS-0001V-0001-SO	71 Q	78	71 Q	65
240-1620-7	CHASS-0002V-0001-SO	65 Q	71	64 Q	59
LCS 240-7596/7-A	Lab Control Sample	76 Q	80	78 Q	73
MB 240-7596/6-A	Method Blank	75 Q	82	73 Q	69

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	TPH	TBP	PHL
Lab Sample ID	Client Sample ID	(45-105)	(35-105)	(35-100)	(30-125)	(35-125)	(40-100)
240-1620-1	LL3SB-415M-0101-SO	59	72	56	79	54	74
240-1620-2	LL3SB-415M-0102-SO	60	66	57	76	51	69
240-1620-3	LL3SB-415M-0103-SO	52	62	48	64	45	61
240-1620-4	CHASS-0001M-0001-SO	55	67	55	71	48	69
240-1620-5	CHASS-0002M-0001-SO	57 M	69 M	54 M	73	49 M	71 M
LCS 240-8076/15-A	Lab Control Sample	55	72	55	76	53	77
MB 240-8076/14-A	Method Blank	46	59	46	78	42	60

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
PHL = Phenol-d5 (Surr)

Method: 8081/DOD - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(55-130)	(55-130)	(70-125)	(70-125)
240-1620-4	CHASS-0001M-0001-SO	146 Q	114	96	43 Q
240-1620-5	CHASS-0002M-0001-SO	145 Q	114	561 Q	96
240-1620-5 MS	CHASS-0002M-0001-SO	174 Q	145 Q	995 M Q	119
240-1620-5 MSD	CHASS-0002M-0001-SO	183 Q	125	407 Q	104
LCS 240-8071/2-A	Lab Control Sample	118	105	443 Q	92
MB 240-8071/1-A	Method Blank	108	105	608 Q	72

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1620-1

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(40-140)	(40-140)	(60-125)	(60-125)
240-1620-4	CHASS-0001M-0001-SO	87	86	88	113
240-1620-5	CHASS-0002M-0001-SO	83	86	95	98
LCS 240-8031/20-A	Lab Control Sample	93	88	101	110
MB 240-8031/19-A	Method Blank	82	81	91	102

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Matrix: Solid **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)
		DNT
Lab Sample ID	Client Sample ID	(78-108)
240-1620-4	CHASS-0001M-0001-SO	91
240-1620-5	CHASS-0002M-0001-SO	91
G1G120502001D	CHASS-0001M-0001-SO	91
G1G120502001S	CHASS-0001M-0001-SO	91
G1G140000078B	Method Blank	91
G1G140000078C	Lab Control Sample	91

Surrogate Legend

DNT = 3,4-Dinitrotoluene

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-7596/6-A
Matrix: Solid
Analysis Batch: 7735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7596

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	10	U	250	21	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
1,1,2,2-Tetrachloroethane	25	U	250	8.9	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
1,1,2-Trichloroethane	25	U	250	12	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
1,1-Dichloroethane	25	U	250	17	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
1,1-Dichloroethene	25	U	250	18	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
1,2-Dichloroethane	25	U	250	10	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
1,2-Dichloroethene, Total	8.2	U	500	8.2	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
1,2-Dichloropropane	10	U	250	8.2	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
2-Butanone	100	U	1000	43	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
2-Hexanone	50	U	1000	20	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
4-Methyl-2-pentanone	100	U	1000	48	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Acetone	200	U	1000	170	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Benzene	25	U	250	12	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Bromoform	25	U	250	19	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Bromomethane	50	U	250	29	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Carbon disulfide	25	U	250	12	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Carbon tetrachloride	10	U	250	6.4	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Chlorobenzene	10	U	250	6.4	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Chloromethane	25	U	250	14	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
cis-1,2-Dichloroethene	10	U	250	6.9	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
cis-1,3-Dichloropropene	10	U	250	7.9	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Dibromochloromethane	25	U	250	12	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Bromodichloromethane	25	U	250	9.9	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Ethylbenzene	10	U	250	5.4	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Methylene Chloride	100	U	250	77	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Styrene	10	U	250	5.6	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Tetrachloroethene	25	U	250	12	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Toluene	25	U	250	17	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
trans-1,2-Dichloroethene	25	U	250	9.2	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
trans-1,3-Dichloropropene	25	U	250	20	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Trichloroethene	25	U	250	9.7	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Vinyl chloride	25	U	250	18	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Xylenes (total)	30	U	500	8.1	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Chloroform	25	U	250	8.8	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Bromochloromethane	25	U	250	13	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
1,2-Dibromoethane	25	U	250	10	ug/Kg		07/07/11 15:43	07/08/11 16:21	1
Chloroethane	100	U	250	61	ug/Kg		07/07/11 15:43	07/08/11 16:21	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*75*	*Q*	*85 - 115*	*07/07/11 15:43*	*07/08/11 16:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*61 - 130*	*07/07/11 15:43*	*07/08/11 16:21*	*1*
4-Bromofluorobenzene (Surr)	*73*	*Q*	*85 - 120*	*07/07/11 15:43*	*07/08/11 16:21*	*1*
Dibromofluoromethane (Surr)	*69*		*59 - 138*	*07/07/11 15:43*	*07/08/11 16:21*	*1*

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-7596/7-A
Matrix: Solid
Analysis Batch: 7735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1-Trichloroethane	500	447		ug/Kg		89	70 - 135
1,1,2,2-Tetrachloroethane	500	505		ug/Kg		101	55 - 130
1,1,2-Trichloroethane	500	489		ug/Kg		98	60 - 125
1,1-Dichloroethane	500	477		ug/Kg		95	75 - 125
1,1-Dichloroethene	500	491		ug/Kg		98	65 - 135
1,2-Dichloroethane	500	480		ug/Kg		96	70 - 135
1,2-Dichloropropane	500	493		ug/Kg		99	70 - 120
2-Butanone	1000	1080		ug/Kg		108	30 - 160
2-Hexanone	1000	985	J	ug/Kg		99	45 - 145
4-Methyl-2-pentanone	1000	935	J	ug/Kg		94	45 - 145
Acetone	1000	955	J	ug/Kg		96	20 - 160
Benzene	500	480		ug/Kg		96	75 - 125
Bromoform	500	505		ug/Kg		101	55 - 135
Bromomethane	500	360		ug/Kg		72	30 - 160
Carbon disulfide	500	346		ug/Kg		69	45 - 160
Carbon tetrachloride	500	430		ug/Kg		86	65 - 135
Chlorobenzene	500	476		ug/Kg		95	75 - 125
Chloromethane	500	321		ug/Kg		64	50 - 130
cis-1,2-Dichloroethene	500	477		ug/Kg		95	65 - 125
cis-1,3-Dichloropropene	500	396		ug/Kg		79	70 - 125
Dibromochloromethane	500	433		ug/Kg		87	65 - 130
Bromodichloromethane	500	409		ug/Kg		82	70 - 130
Ethylbenzene	500	464		ug/Kg		93	75 - 125
Methylene Chloride	500	520		ug/Kg		104	55 - 140
m-Xylene & p-Xylene	1000	945		ug/Kg		95	80 - 125
o-Xylene	500	471		ug/Kg		94	75 - 125
Styrene	500	430		ug/Kg		86	75 - 125
Tetrachloroethene	500	477		ug/Kg		95	65 - 140
Toluene	500	476		ug/Kg		95	70 - 125
trans-1,2-Dichloroethene	500	468		ug/Kg		94	65 - 135
trans-1,3-Dichloropropene	500	387		ug/Kg		77	65 - 125
Trichloroethene	500	471		ug/Kg		94	75 - 125
Vinyl chloride	500	361		ug/Kg		72	60 - 125
Chloroform	500	483		ug/Kg		97	70 - 125
Bromochloromethane	500	493		ug/Kg		99	70 - 125
Chloroethane	500	367		ug/Kg		73	40 - 155

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*76*	*Q*	*85 - 115*
1,2-Dichloroethane-d4 (Surr)	*80*		*61 - 130*
4-Bromofluorobenzene (Surr)	*78*	*Q*	*85 - 120*
Dibromofluoromethane (Surr)	*73*		*59 - 138*

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1620-1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-8076/14-A
Matrix: Solid
Analysis Batch: 10353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8076

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Anthracene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Benzo[a]anthracene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Benzoic acid	330	U	660	330	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Benzo[b]fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Benzo[k]fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Benzyl alcohol	27	U	330	21	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Bis(2-chloroethoxy)methane	27	U	100	22	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Bis(2-chloroethyl)ether	3.3	U	100	2.0	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
4-Bromophenyl phenyl ether	27	U	50	13	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Butyl benzyl phthalate	27	U	50	10	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
2,4-Dimethylphenol	80	U	150	20	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Dimethyl phthalate	27	U	50	17	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
4,6-Dinitro-2-methylphenol	80	U	150	80	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
2,4-Dinitrophenol	80	U	330	80	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
2,4-Dinitrotoluene	27	U	200	27	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
2,6-Dinitrotoluene	27	U	200	21	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Fluorene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Hexachlorobenzene	3.3	U	6.7	2.1	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Hexachlorobutadiene	27	U	50	27	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Hexachlorocyclopentadiene	27	U	330	27	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Hexachloroethane	27	U	50	9.0	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
N-Nitrosodiphenylamine	27	U	50	21	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
N-Nitrosodi-n-propylamine	27	U	50	27	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
1,4-Dichlorobenzene	27	U	50	20	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
2-Chloronaphthalene	3.3	U	50	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
2-Chlorophenol	27	U	50	27	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
4-Chlorophenyl phenyl ether	27	U	50	13	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Chrysene	3.3	U	6.7	1.1	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Dibenzofuran	3.3	U	50	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Benzo[g,h,i]perylene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Benzo[a]pyrene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Di-n-butyl phthalate	27	U	50	15	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
1,2-Dichlorobenzene	27	U	50	9.7	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
1,3-Dichlorobenzene	27	U	50	11	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
3,3'-Dichlorobenzidine	80	U	100	18	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
2,4-Dichlorophenol	27	U	150	20	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Diethyl phthalate	27	U	50	16	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Indeno[1,2,3-cd]pyrene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Isophorone	27	U	50	13	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
2-Methylnaphthalene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
2-Methylphenol	80	U	200	80	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
2-Nitroaniline	27	U	200	9.1	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
3-Nitroaniline	80	U	200	16	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
4-Nitroaniline	27	U	200	26	ug/Kg		07/12/11 10:53	07/31/11 11:30	1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-8076/14-A
Matrix: Solid
Analysis Batch: 10353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8076

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	3.3	U	100	2.2	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
2-Nitrophenol	27	U	50	27	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
4-Nitrophenol	80	U	330	80	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Pyrene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Pentachlorophenol	80	U	150	80	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Phenanthrene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
1,2,4-Trichlorobenzene	27	U	50	27	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
2,4,5-Trichlorophenol	27	U	150	25	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
2,4,6-Trichlorophenol	80	U	150	80	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Phenol	27	U	50	27	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Carbazole	27	U	50	27	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
4-Chloroaniline	27	U	150	17	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
3 & 4 Methylphenol	80	U	400	20	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Bis(2-ethylhexyl) phthalate	23.2	J	50	19	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Di-n-octyl phthalate	27	U	50	27	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
4-Chloro-3-methylphenol	27	U	150	21	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
bis (2-Chloroisopropyl) ether	27	U	100	9.5	ug/Kg		07/12/11 10:53	07/31/11 11:30	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*46*		*45 - 105*	*07/12/11 10:53*	*07/31/11 11:30*	*1*
2-Fluorophenol (Surr)	*59*		*35 - 105*	*07/12/11 10:53*	*07/31/11 11:30*	*1*
Nitrobenzene-d5 (Surr)	*46*		*35 - 100*	*07/12/11 10:53*	*07/31/11 11:30*	*1*
Terphenyl-d14 (Surr)	*78*		*30 - 125*	*07/12/11 10:53*	*07/31/11 11:30*	*1*
2,4,6-Tribromophenol (Surr)	*42*		*35 - 125*	*07/12/11 10:53*	*07/31/11 11:30*	*1*
Phenol-d5 (Surr)	*60*		*40 - 100*	*07/12/11 10:53*	*07/31/11 11:30*	*1*

Lab Sample ID: LCS 240-8076/15-A
Matrix: Solid
Analysis Batch: 10353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8076

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	667	388		ug/Kg		58	45 - 110
Acenaphthylene	667	403		ug/Kg		60	45 - 105
Anthracene	667	441		ug/Kg		66	55 - 105
Benzo[a]anthracene	667	435		ug/Kg		65	50 - 110
Benzoic acid	667	330	U	ug/Kg		20	0 - 110
Benzo[b]fluoranthene	667	406		ug/Kg		61	45 - 115
Benzo[k]fluoranthene	667	507		ug/Kg		76	45 - 125
Benzyl alcohol	667	469		ug/Kg		70	20 - 125
Bis(2-chloroethoxy)methane	667	453		ug/Kg		68	45 - 110
Bis(2-chloroethyl)ether	667	440		ug/Kg		66	40 - 105
4-Bromophenyl phenyl ether	667	453		ug/Kg		68	45 - 115
Butyl benzyl phthalate	667	491		ug/Kg		74	50 - 125
2,4-Dimethylphenol	667	427		ug/Kg		64	30 - 105
Dimethyl phthalate	667	471		ug/Kg		71	50 - 110
4,6-Dinitro-2-methylphenol	667	429		ug/Kg		64	30 - 135
2,4-Dinitrophenol	667	321	J	ug/Kg		48	15 - 130
2,4-Dinitrotoluene	667	509		ug/Kg		76	50 - 115
2,6-Dinitrotoluene	667	493		ug/Kg		74	50 - 110

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-8076/15-A
Matrix: Solid
Analysis Batch: 10353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8076

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Fluoranthene	667	468		ug/Kg		70	55 - 115
Fluorene	667	404		ug/Kg		61	50 - 110
Hexachlorobenzene	667	444		ug/Kg		67	45 - 120
Hexachlorobutadiene	667	341		ug/Kg		51	40 - 115
Hexachloroethane	667	352		ug/Kg		53	35 - 110
N-Nitrosodiphenylamine	667	438		ug/Kg		66	50 - 115
N-Nitrosodi-n-propylamine	667	459		ug/Kg		69	40 - 115
1,4-Dichlorobenzene	667	353		ug/Kg		53	35 - 105
2-Chloronaphthalene	667	388		ug/Kg		58	45 - 105
2-Chlorophenol	667	453		ug/Kg		68	45 - 105
4-Chlorophenyl phenyl ether	667	427		ug/Kg		64	45 - 110
Chrysene	667	447		ug/Kg		67	55 - 110
Dibenz(a,h)anthracene	667	493		ug/Kg		74	40 - 125
Dibenzofuran	667	416		ug/Kg		62	50 - 105
Benzo[g,h,i]perylene	667	497		ug/Kg		74	40 - 125
Benzo[a]pyrene	667	419		ug/Kg		63	50 - 110
Di-n-butyl phthalate	667	481		ug/Kg		72	55 - 110
1,2-Dichlorobenzene	667	373		ug/Kg		56	45 - 110
1,3-Dichlorobenzene	667	347		ug/Kg		52	40 - 100
3,3'-Dichlorobenzidine	667	337		ug/Kg		50	10 - 130
2,4-Dichlorophenol	667	443		ug/Kg		66	45 - 110
Diethyl phthalate	667	483		ug/Kg		72	50 - 115
Indeno[1,2,3-cd]pyrene	667	498		ug/Kg		75	40 - 120
Isophorone	667	437		ug/Kg		65	45 - 110
2-Methylnaphthalene	667	448		ug/Kg		67	45 - 105
2-Methylphenol	667	548		ug/Kg		82	40 - 105
Naphthalene	667	373		ug/Kg		56	40 - 105
2-Nitroaniline	667	479		ug/Kg		72	45 - 120
3-Nitroaniline	667	449		ug/Kg		67	25 - 110
4-Nitroaniline	667	485		ug/Kg		73	35 - 115
Nitrobenzene	667	403		ug/Kg		60	40 - 115
2-Nitrophenol	667	423		ug/Kg		63	40 - 110
4-Nitrophenol	667	442		ug/Kg		66	15 - 140
Pyrene	667	447		ug/Kg		67	45 - 125
Pentachlorophenol	667	349		ug/Kg		52	25 - 120
Phenanthrene	667	434		ug/Kg		65	50 - 110
1,2,4-Trichlorobenzene	667	348		ug/Kg		52	45 - 110
2,4,5-Trichlorophenol	667	449		ug/Kg		67	50 - 110
2,4,6-Trichlorophenol	667	357		ug/Kg		53	45 - 110
Phenol	667	525		ug/Kg		79	40 - 100
Carbazole	667	459		ug/Kg		69	45 - 115
4-Chloroaniline	667	394		ug/Kg		59	10 - 110
3 & 4 Methylphenol	1330	1010		ug/Kg		76	40 - 105
Bis(2-ethylhexyl) phthalate	667	503		ug/Kg		75	45 - 125
Di-n-octyl phthalate	667	516		ug/Kg		77	40 - 130
4-Chloro-3-methylphenol	667	490		ug/Kg		73	45 - 115
bis (2-Chloroisopropyl) ether	667	442		ug/Kg		66	20 - 115

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-8076/15-A
Matrix: Solid
Analysis Batch: 10353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8076

Surrogate	LCS % Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	55		45 - 105
2-Fluorophenol (Surr)	72		35 - 105
Nitrobenzene-d5 (Surr)	55		35 - 100
Terphenyl-d14 (Surr)	76		30 - 125
2,4,6-Tribromophenol (Surr)	53		35 - 125
Phenol-d5 (Surr)	77		40 - 100

Method: 8081/DOD - Organochlorine Pesticides (GC)

Lab Sample ID: MB 240-8071/1-A
Matrix: Solid
Analysis Batch: 10137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8071

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.67	U	2.0	0.62	ug/Kg		07/12/11 10:41	07/29/11 09:29	1
4,4'-DDE	0.67	U	1.7	0.39	ug/Kg		07/12/11 10:41	07/29/11 09:29	1
4,4'-DDT	0.67	U	2.0	0.63	ug/Kg		07/12/11 10:41	07/29/11 09:29	1
Aldrin	1.3	U	4.0	1.2	ug/Kg		07/12/11 10:41	07/29/11 09:29	1
alpha-BHC	1.3	U	2.5	0.73	ug/Kg		07/12/11 10:41	07/29/11 09:29	1
alpha-Chlordane	1.3	U	3.0	0.94	ug/Kg		07/12/11 10:41	07/29/11 09:29	1
beta-BHC	1.3	U	3.5	1.1	ug/Kg		07/12/11 10:41	07/29/11 09:29	1
delta-BHC	1.3	U	4.0	1.2	ug/Kg		07/12/11 10:41	07/29/11 09:29	1
Dieldrin	0.67	U	1.7	0.47	ug/Kg		07/12/11 10:41	07/29/11 09:29	1
Endosulfan I	0.67	U	1.7	0.52	ug/Kg		07/12/11 10:41	07/29/11 09:29	1
Endosulfan II	1.3	U	2.5	0.82	ug/Kg		07/12/11 10:41	07/29/11 09:29	1
Endosulfan sulfate	1.3	U	3.0	0.87	ug/Kg		07/12/11 10:41	07/29/11 09:29	1
Endrin	0.67	U	1.7	0.50	ug/Kg		07/12/11 10:41	07/29/11 09:29	1
Endrin aldehyde	1.3	U	3.0	1.0	ug/Kg		07/12/11 10:41	07/29/11 09:29	1
Endrin ketone	0.67	U	2.0	0.63	ug/Kg		07/12/11 10:41	07/29/11 09:29	1
gamma-BHC (Lindane)	1.3	U	2.5	0.74	ug/Kg		07/12/11 10:41	07/29/11 09:29	1
gamma-Chlordane	0.67	U	1.7	0.42	ug/Kg		07/12/11 10:41	07/29/11 09:29	1
Heptachlor	1.3	U	3.5	1.1	ug/Kg		07/12/11 10:41	07/29/11 09:29	1
Heptachlor epoxide	1.3	U	2.5	0.80	ug/Kg		07/12/11 10:41	07/29/11 09:29	1
Methoxychlor	3.3	U	5.0	1.5	ug/Kg		07/12/11 10:41	07/29/11 09:29	1
Toxaphene	20	U	67	19	ug/Kg		07/12/11 10:41	07/29/11 09:29	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	108		55 - 130	07/12/11 10:41	07/29/11 09:29	1
DCB Decachlorobiphenyl	105		55 - 130	07/12/11 10:41	07/29/11 09:29	1
Tetrachloro-m-xylene	608	Q	70 - 125	07/12/11 10:41	07/29/11 09:29	1
Tetrachloro-m-xylene	72		70 - 125	07/12/11 10:41	07/29/11 09:29	1

Lab Sample ID: LCS 240-8071/2-A
Matrix: Solid
Analysis Batch: 10137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8071

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDD	33.3	30.7		ug/Kg		92	30 - 135
4,4'-DDE	33.3	35.4		ug/Kg		106	70 - 125

Method: 8081/DOD - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 240-8071/2-A
Matrix: Solid
Analysis Batch: 10137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8071

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDT	33.3	21.0		ug/Kg		63	45 - 140
Aldrin	33.3	35.9		ug/Kg		108	45 - 140
alpha-BHC	33.3	37.9		ug/Kg		114	60 - 125
alpha-Chlordane	33.3	33.9		ug/Kg		102	65 - 120
beta-BHC	33.3	33.2		ug/Kg		100	60 - 125
delta-BHC	33.3	37.1	M	ug/Kg		111	55 - 130
Dieldrin	33.3	35.1		ug/Kg		105	65 - 125
Endosulfan I	33.3	17.3		ug/Kg		52	15 - 135
Endosulfan II	33.3	19.9		ug/Kg		60	35 - 140
Endosulfan sulfate	33.3	31.6		ug/Kg		95	60 - 135
Endrin	33.3	31.5		ug/Kg		94	60 - 135
Endrin aldehyde	33.3	23.5		ug/Kg		71	35 - 145
Endrin ketone	33.3	25.6		ug/Kg		77	65 - 135
gamma-BHC (Lindane)	33.3	35.1		ug/Kg		105	60 - 125
gamma-Chlordane	33.3	34.5		ug/Kg		104	65 - 125
Heptachlor	33.3	21.9		ug/Kg		66	50 - 140
Heptachlor epoxide	33.3	35.3		ug/Kg		106	65 - 130
Methoxychlor	33.3	21.1		ug/Kg		63	55 - 145

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*118*		*55 - 130*
DCB Decachlorobiphenyl	*105*		*55 - 130*
Tetrachloro-m-xylene	*443*	*Q*	*70 - 125*
Tetrachloro-m-xylene	*92*		*70 - 125*

Lab Sample ID: 240-1620-5 MS
Matrix: Solid
Analysis Batch: 10137

Client Sample ID: CHASS-0002M-0001-SO
Prep Type: Total/NA
Prep Batch: 8071

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDD	1.4		33.6	40.3		ug/Kg	☼	120	30 - 135
4,4'-DDE	1.4		33.6	47.8	J	ug/Kg	☼	142	70 - 125
4,4'-DDT	1.4		33.6	30.2		ug/Kg	☼	90	45 - 140
Aldrin	2.7		33.6	48.3	J	ug/Kg	☼	144	45 - 140
alpha-BHC	2.7		33.6	46.6	J	ug/Kg	☼	139	60 - 125
alpha-Chlordane	2.7		33.6	47.6	J	ug/Kg	☼	142	65 - 120
beta-BHC	2.7		33.6	42.7	J	ug/Kg	☼	127	60 - 125
delta-BHC	2.7		33.6	46.5	J	ug/Kg	☼	138	55 - 130
Dieldrin	1.4		33.6	42.8	J	ug/Kg	☼	127	65 - 125
Endosulfan I	1.4		33.6	23.8		ug/Kg	☼	71	15 - 135
Endosulfan II	2.7		33.6	25.3		ug/Kg	☼	75	35 - 140
Endosulfan sulfate	2.7		33.6	40.2		ug/Kg	☼	120	60 - 135
Endrin	1.4		33.6	41.0		ug/Kg	☼	122	60 - 135
Endrin aldehyde	2.7		33.6	27.2		ug/Kg	☼	81	35 - 145
Endrin ketone	1.4		33.6	32.9		ug/Kg	☼	98	65 - 135
gamma-BHC (Lindane)	2.7		33.6	42.7	J	ug/Kg	☼	127	60 - 125
gamma-Chlordane	1.4		33.6	46.0	J	ug/Kg	☼	137	65 - 125
Heptachlor	2.7		33.6	33.8		ug/Kg	☼	101	50 - 140
Heptachlor epoxide	2.7		33.6	45.9	J	ug/Kg	☼	137	65 - 130

Method: 8081/DOD - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 240-1620-5 MS
Matrix: Solid
Analysis Batch: 10137

Client Sample ID: CHASS-0002M-0001-SO
Prep Type: Total/NA
Prep Batch: 8071

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Methoxychlor	6.7		33.6	29.1		ug/Kg	☼	87	55 - 145

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*174*	*Q*	*55 - 130*
DCB Decachlorobiphenyl	*145*	*Q*	*55 - 130*
Tetrachloro-m-xylene	*995*	*M Q*	*70 - 125*
Tetrachloro-m-xylene	*119*		*70 - 125*

Lab Sample ID: 240-1620-5 MSD
Matrix: Solid
Analysis Batch: 10137

Client Sample ID: CHASS-0002M-0001-SO
Prep Type: Total/NA
Prep Batch: 8071

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
4,4'-DDD	1.4		33.5	37.9		ug/Kg	☼	113	30 - 135	6	30
4,4'-DDE	1.4		33.5	43.6	J	ug/Kg	☼	130	70 - 125	9	30
4,4'-DDT	1.4		33.5	29.5		ug/Kg	☼	88	45 - 140	2	30
Aldrin	2.7		33.5	43.1		ug/Kg	☼	128	45 - 140	11	30
alpha-BHC	2.7		33.5	45.0	J	ug/Kg	☼	134	60 - 125	4	30
alpha-Chlordane	2.7		33.5	43.1	J	ug/Kg	☼	128	65 - 120	10	30
beta-BHC	2.7		33.5	40.2		ug/Kg	☼	120	60 - 125	6	30
delta-BHC	2.7		33.5	43.7		ug/Kg	☼	130	55 - 130	6	30
Dieldrin	1.4		33.5	40.0		ug/Kg	☼	119	65 - 125	7	30
Endosulfan I	1.4		33.5	22.4		ug/Kg	☼	67	15 - 135	6	30
Endosulfan II	2.7		33.5	23.9		ug/Kg	☼	71	35 - 140	5	30
Endosulfan sulfate	2.7		33.5	39.5		ug/Kg	☼	118	60 - 135	2	30
Endrin	1.4		33.5	35.1		ug/Kg	☼	105	60 - 135	16	30
Endrin aldehyde	2.7		33.5	23.5		ug/Kg	☼	70	35 - 145	14	30
Endrin ketone	1.4		33.5	32.7		ug/Kg	☼	98	65 - 135	0	30
gamma-BHC (Lindane)	2.7		33.5	39.9		ug/Kg	☼	119	60 - 125	7	30
gamma-Chlordane	1.4		33.5	42.8	J	ug/Kg	☼	128	65 - 125	7	30
Heptachlor	2.7		33.5	32.3		ug/Kg	☼	96	50 - 140	5	30
Heptachlor epoxide	2.7		33.5	42.8		ug/Kg	☼	128	65 - 130	7	30
Methoxychlor	6.7		33.5	29.6		ug/Kg	☼	88	55 - 145	2	30

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*183*	*Q*	*55 - 130*
DCB Decachlorobiphenyl	*125*		*55 - 130*
Tetrachloro-m-xylene	*407*	*Q*	*70 - 125*
Tetrachloro-m-xylene	*104*		*70 - 125*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-8031/19-A
Matrix: Solid
Analysis Batch: 9463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8031

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	65	21	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1221	25	U	50	16	ug/Kg		07/12/11 09:19	07/23/11 21:19	1

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 240-8031/19-A
Matrix: Solid
Analysis Batch: 9463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8031

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1232	25	U	45	14	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1242	25	U	40	13	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1248	25	U	55	17	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1254	25	U	55	17	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1260	25	U	55	17	ug/Kg		07/12/11 09:19	07/23/11 21:19	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*40 - 140*	*07/12/11 09:19*	*07/23/11 21:19*	*1*
Tetrachloro-m-xylene	*81*		*40 - 140*	*07/12/11 09:19*	*07/23/11 21:19*	*1*
DCB Decachlorobiphenyl	*91*		*60 - 125*	*07/12/11 09:19*	*07/23/11 21:19*	*1*
DCB Decachlorobiphenyl	*102*		*60 - 125*	*07/12/11 09:19*	*07/23/11 21:19*	*1*

Lab Sample ID: LCS 240-8031/20-A
Matrix: Solid
Analysis Batch: 9463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8031

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Aroclor 1016			333	315		ug/Kg		94	40 - 140		
Aroclor 1260			333	326		ug/Kg		98	60 - 130		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*93*		*40 - 140*
Tetrachloro-m-xylene	*88*		*40 - 140*
DCB Decachlorobiphenyl	*101*		*60 - 125*
DCB Decachlorobiphenyl	*110*		*60 - 125*

Method: 8330 (Modified) - Organic Compounds by UV/HPLC

Lab Sample ID: G1G140000081B
Matrix: Solid
Analysis Batch: 1195081

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 1195081_P

Analyte	MB Result	MB Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	0.040 U		0.25	0.020	mg/kg		07/14/11 09:55	07/27/11 14:31	1

Lab Sample ID: G1G140000081C
Matrix: Solid
Analysis Batch: 1195081

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 1195081_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Nitroguanidine			1.00	0.919		mg/kg		92	72 - 121		

Lab Sample ID: 240-1620-5 MS
Matrix: Solid
Analysis Batch: 1195081

Client Sample ID: CHASS-0002M-0001-SO
Prep Type: Total
Prep Batch: 1195081_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits		
Nitroguanidine	0.038 U		0.980	0.883		mg/kg		90	72 - 121		

Method: 8330 (Modified) - Organic Compounds by UV/HPLC (Continued)

Lab Sample ID: 240-1620-5 MSD | **Client Sample ID: CHASS-0002M-0001-SO**
Matrix: Solid | **Prep Type: Total**
Analysis Batch: 1195081 | **Prep Batch: 1195081_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Nitroguanidine	0.038 U		1.00	0.903		mg/kg		90	72 - 121	2.3	20

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Lab Sample ID: G1G140000078B | **Client Sample ID: Method Blank**
Matrix: Solid | **Prep Type: Total**
Analysis Batch: 1195078 | **Prep Batch: 1195078_P**

Analyte	MB Result	MB Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.10 U		0.25	0.020	mg/kg		07/14/11 09:50	07/27/11 08:28	1
1,3-Dinitrobenzene	0.10 U		0.25	0.050	mg/kg		07/14/11 09:50	07/27/11 08:28	1
2,4,6-Trinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/14/11 09:50	07/27/11 08:28	1
2,4-Dinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/14/11 09:50	07/27/11 08:28	1
2,6-Dinitrotoluene	0.10 U		0.25	0.030	mg/kg		07/14/11 09:50	07/27/11 08:28	1
2-Amino-4,6-dinitrotoluene	0.10 U		0.25	0.10	mg/kg		07/14/11 09:50	07/27/11 08:28	1
2-Nitrotoluene	0.10 U		0.25	0.080	mg/kg		07/14/11 09:50	07/27/11 08:28	1
3-Nitrotoluene	0.10 U		0.25	0.070	mg/kg		07/14/11 09:50	07/27/11 08:28	1
4-Amino-2,6-dinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/14/11 09:50	07/27/11 08:28	1
4-Nitrotoluene	0.10 U		0.25	0.080	mg/kg		07/14/11 09:50	07/27/11 08:28	1
HMX	0.10 U		0.25	0.030	mg/kg		07/14/11 09:50	07/27/11 08:28	1
Nitrobenzene	0.10 U		0.25	0.050	mg/kg		07/14/11 09:50	07/27/11 08:28	1
Nitroglycerin	0.25 U		0.50	0.13	mg/kg		07/14/11 09:50	07/27/11 08:28	1
PETN	0.25 U		0.50	0.16	mg/kg		07/14/11 09:50	07/27/11 08:28	1
RDX	0.10 U		0.25	0.040	mg/kg		07/14/11 09:50	07/27/11 08:28	1
Tetryl	0.10 U		0.25	0.050	mg/kg		07/14/11 09:50	07/27/11 08:28	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*91*		*78 - 108*	*07/14/11 09:50*	*07/27/11 08:28*	*1*

Lab Sample ID: G1G140000078C | **Client Sample ID: Lab Control Sample**
Matrix: Solid | **Prep Type: Total**
Analysis Batch: 1195078 | **Prep Batch: 1195078_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,3,5-Trinitrobenzene	1.00	1.02		mg/kg		102	75 - 125
1,3-Dinitrobenzene	1.00	1.03		mg/kg		103	80 - 125
2,4,6-Trinitrotoluene	1.00	0.924		mg/kg		92	55 - 140
2,4-Dinitrotoluene	1.00	0.991		mg/kg		99	80 - 125
2,6-Dinitrotoluene	1.00	0.992		mg/kg		99	80 - 120
2-Amino-4,6-dinitrotoluene	1.00	1.00		mg/kg		100	80 - 125
2-Nitrotoluene	1.00	0.985		mg/kg		99	80 - 125
3-Nitrotoluene	1.00	0.981		mg/kg		98	75 - 120
4-Amino-2,6-dinitrotoluene	1.00	0.995		mg/kg		100	80 - 125
4-Nitrotoluene	1.00	0.968		mg/kg		97	75 - 125
HMX	1.00	1.01		mg/kg		101	75 - 125
Nitrobenzene	1.00	1.02		mg/kg		102	75 - 125
Nitroglycerin	5.00	4.70		mg/kg		94	84 - 114
PETN	5.00	4.74		mg/kg		95	85 - 115
RDX	1.00	1.03		mg/kg		103	70 - 135

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A) (Continued)

Lab Sample ID: G1G140000078C
Matrix: Solid
Analysis Batch: 1195078

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 1195078_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Tetryl			1.00	0.946		mg/kg		95	10 - 150		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
3,4-Dinitrotoluene	*91*		*78 - 108*

Lab Sample ID: G1G120502001D
Matrix: Solid
Analysis Batch: 1195078

Client Sample ID: CHASS-0001M-0001-SO
Prep Type: Total
Prep Batch: 1195078_P

Analyte	Sample Result	Sample Qualifier	Spike Added	SD1 Result	SD1 Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,3,5-Trinitrobenzene	0.10 U		1.00	1.02		mg/kg		102	75 - 125	2.7	30
1,3-Dinitrobenzene	0.10 U		1.00	1.03		mg/kg		103	80 - 125	2.3	30
2,4,6-Trinitrotoluene	0.10 U		1.00	0.926		mg/kg		93	55 - 140	2.8	30
2,4-Dinitrotoluene	0.10 U		1.00	0.991		mg/kg		99	80 - 125	2.8	30
2,6-Dinitrotoluene	0.10 U		1.00	0.987		mg/kg		99	80 - 120	3.2	30
2-Amino-4,6-dinitrotoluene	0.10 U		1.00	1.00		mg/kg		100	80 - 125	3.0	30
2-Nitrotoluene	0.10 U		1.00	0.980		mg/kg		98	80 - 125	2.6	30
3-Nitrotoluene	0.10 U		1.00	0.982		mg/kg		98	75 - 120	3.5	30
4-Amino-2,6-dinitrotoluene	0.10 U		1.00	0.993		mg/kg		99	80 - 125	3.4	30
4-Nitrotoluene	0.10 U		1.00	0.971		mg/kg		97	75 - 125	3.0	30
HMX	0.10 U		1.00	1.00		mg/kg		100	75 - 125	2.2	30
Nitrobenzene	0.10 U		1.00	1.02		mg/kg		102	75 - 125	2.1	30
Nitroglycerin	0.25 U		5.00	4.73		mg/kg		95	84 - 114	4.1	30
PETN	0.25 U		5.00	4.71		mg/kg		94	85 - 115	1.8	30
RDX	0.10 U		1.00	1.05		mg/kg		105	70 - 135	7.2	30
Tetryl	0.10 U		1.00	0.942		mg/kg		94	10 - 150	2.6	30

Surrogate	*SD1 % Recovery*	*SD1 Qualifier*	*Limits*
3,4-Dinitrotoluene	*91*		*78 - 108*

Lab Sample ID: G1G120502001S
Matrix: Solid
Analysis Batch: 1195078

Client Sample ID: CHASS-0001M-0001-SO
Prep Type: Total
Prep Batch: 1195078_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS1 Result	MS1 Qualifier	Unit	D	% Rec	% Rec. Limits
1,3,5-Trinitrobenzene	0.10 U		0.976	0.996		mg/kg		102	75 - 125
1,3-Dinitrobenzene	0.10 U		0.976	1.00		mg/kg		103	80 - 125
2,4,6-Trinitrotoluene	0.10 U		0.976	0.901		mg/kg		92	55 - 140
2,4-Dinitrotoluene	0.10 U		0.976	0.964		mg/kg		99	80 - 125
2,6-Dinitrotoluene	0.10 U		0.976	0.956		mg/kg		98	80 - 120
2-Amino-4,6-dinitrotoluene	0.10 U		0.976	0.974		mg/kg		100	80 - 125
2-Nitrotoluene	0.10 U		0.976	0.955		mg/kg		98	80 - 125
3-Nitrotoluene	0.10 U		0.976	0.949		mg/kg		97	75 - 120
4-Amino-2,6-dinitrotoluene	0.10 U		0.976	0.959		mg/kg		98	80 - 125
4-Nitrotoluene	0.10 U		0.976	0.942		mg/kg		97	75 - 125
HMX	0.10 U		0.976	0.982		mg/kg		101	75 - 125
Nitrobenzene	0.10 U		0.976	0.994		mg/kg		102	75 - 125
Nitroglycerin	0.25 U		4.88	4.54		mg/kg		93	84 - 114
PETN	0.25 U		4.88	4.63		mg/kg		95	85 - 115

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A) (Continued)

Lab Sample ID: G1G120502001S — **Client Sample ID: CHASS-0001M-0001-SO**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1195078 — **Prep Batch: 1195078_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS1 Result	MS1 Qualifier	Unit	D	% Rec	% Rec. Limits
RDX	0.10 U		0.976	0.979		mg/kg		100	70 - 135
Tetryl	0.10 U		0.976	0.918		mg/kg		94	10 - 150

Surrogate	*MS1 % Recovery*	*MS1 Qualifier*	*Limits*
3,4-Dinitrotoluene	*91*		*78 - 108*

Method: 6020/DOD - Metals (ICP/MS)

Lab Sample ID: MB 240-8611/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 13778 — **Prep Batch: 8611**

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.15	U	0.20	0.062	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Arsenic	0.15	U	0.50	0.052	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Barium	0.30	U	0.50	0.13	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Calcium	100	U	200	40	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Chromium	0.45	U	0.50	0.16	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Copper	0.30	U	0.40	0.11	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Iron	30	U	50	11	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Lead	0.20	U	0.30	0.071	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Magnesium	25	U	100	8.9	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Manganese	0.40	U	0.50	0.16	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Nickel	0.103	J	0.50	0.086	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Potassium	10	U	100	3.8	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Selenium	0.060	U	0.50	0.021	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Sodium	40	U	100	14	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Thallium	0.15	U	0.20	0.056	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Vanadium	0.10	U	0.50	0.043	mg/Kg		07/15/11 12:40	08/25/11 22:08	1

Lab Sample ID: MB 240-8611/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 13699 — **Prep Batch: 8611**

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.0	U	10	2.5	mg/Kg		07/15/11 12:40	08/29/11 13:37	1
Beryllium	0.010	U	0.10	0.0035	mg/Kg		07/15/11 12:40	08/29/11 13:37	1
Cadmium	0.010	U	0.20	0.0031	mg/Kg		07/15/11 12:40	08/29/11 13:37	1
Cobalt	0.015	U	0.10	0.0045	mg/Kg		07/15/11 12:40	08/29/11 13:37	1
Silver	0.050	U	0.10	0.016	mg/Kg		07/15/11 12:40	08/29/11 13:37	1
Zinc	2.0	U	4.0	1.0	mg/Kg		07/15/11 12:40	08/29/11 13:37	1

Lab Sample ID: LCS 240-8611/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 13778 — **Prep Batch: 8611**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Antimony	10.0	10.1	D	mg/Kg		101	68 - 113
Arsenic	100	99.8	D	mg/Kg		100	73 - 110
Barium	100	96.2	D	mg/Kg		96	70 - 110

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-8611/2-A
Matrix: Solid
Analysis Batch: 13778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Calcium	1000	1010	J D	mg/Kg		101	80 - 120
Chromium	100	102	D	mg/Kg		102	70 - 110
Copper	100	108	D	mg/Kg		108	73 - 110
Iron	1000	1060	D	mg/Kg		106	80 - 120
Lead	100	92.1	D	mg/Kg		92	75 - 110
Magnesium	1000	1080	D	mg/Kg		108	80 - 120
Manganese	100	106	D	mg/Kg		106	80 - 120
Nickel	100	108	D	mg/Kg		108	75 - 110
Potassium	1000	1020	D	mg/Kg		102	80 - 120
Selenium	100	98.3	D	mg/Kg		98	65 - 110
Sodium	1000	1070	D	mg/Kg		107	80 - 120
Thallium	100	90.6	D	mg/Kg		91	71 - 110
Vanadium	100	98.9	D	mg/Kg		99	72 - 110

Lab Sample ID: LCS 240-8611/2-A ^10
Matrix: Solid
Analysis Batch: 13699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	1000	1040	D	mg/Kg		104	80 - 120
Beryllium	100	99.6	D	mg/Kg		100	79 - 110
Cadmium	100	106	D	mg/Kg		106	74 - 110
Cobalt	100	99.7	D	mg/Kg		100	74 - 110
Silver	10.0	10.8	D	mg/Kg		108	60 - 114
Zinc	100	111	D	mg/Kg		111	72 - 113

Method: 7471/DOD - Mercury (CVAA)

Lab Sample ID: MB 240-8619/1-A
Matrix: Solid
Analysis Batch: 8899

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8619

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033	U	0.10	0.014	mg/Kg		07/15/11 15:30	07/18/11 16:40	1

Lab Sample ID: LCS 240-8619/2-A
Matrix: Solid
Analysis Batch: 8899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8619

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.833	0.840		mg/Kg		101	80 - 120

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 240-8820/3-A
Matrix: Solid
Analysis Batch: 9165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8820

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	0.80	U	0.80	0.27	mg/Kg		07/18/11 14:13	07/20/11 00:00	1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSI 240-8820/5-A
Matrix: Solid
Analysis Batch: 9165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8820

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	% Rec	% Rec. Limits
Hexavalent chromium	643	712		mg/Kg		111	75 - 125

Lab Sample ID: LCSS 240-8820/4-A
Matrix: Solid
Analysis Batch: 9165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8820

Analyte	Spike Added	LCSS Result	LCSS Qualifier	Unit	D	% Rec	% Rec. Limits
Hexavalent chromium	20.0	21.2		mg/Kg		106	90 - 110

Method: WS-WC-0050 - Nitrocellulose as N by WS-WC-0050

Lab Sample ID: G1G200000012B
Matrix: Solid
Analysis Batch: 1201012

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 1201012_P

Analyte	MB Result	MB Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	1.8 U		5.0	0.78	mg/kg		07/20/11 05:35	07/21/11 12:31	1

Lab Sample ID: G1G200000012C
Matrix: Solid
Analysis Batch: 1201012

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 1201012_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrocellulose	50.7	32.4		mg/kg		64	34 - 115

GC/MS VOA

Prep Batch: 7596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-6	CHASS-0001V-0001-SO	Total/NA	Solid	5035	
240-1620-7	CHASS-0002V-0001-SO	Total/NA	Solid	5035	
LCS 240-7596/7-A	Lab Control Sample	Total/NA	Solid	5035	
MB 240-7596/6-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 7735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-6	CHASS-0001V-0001-SO	Total/NA	Solid	8260B/DoD	7596
240-1620-7	CHASS-0002V-0001-SO	Total/NA	Solid	8260B/DoD	7596
LCS 240-7596/7-A	Lab Control Sample	Total/NA	Solid	8260B/DoD	7596
MB 240-7596/6-A	Method Blank	Total/NA	Solid	8260B/DoD	7596

GC/MS Semi VOA

Leach Batch: 7730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-1	LL3SB-415M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1620-2	LL3SB-415M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1620-3	LL3SB-415M-0103-SO	Total/NA	Solid	Increm, Prep	
240-1620-4	CHASS-0001M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1620-5	CHASS-0002M-0001-SO	Total/NA	Solid	Increm, Prep	

Prep Batch: 8076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-1	LL3SB-415M-0101-SO	Total/NA	Solid	3540C	7730
240-1620-2	LL3SB-415M-0102-SO	Total/NA	Solid	3540C	7730
240-1620-3	LL3SB-415M-0103-SO	Total/NA	Solid	3540C	7730
240-1620-4	CHASS-0001M-0001-SO	Total/NA	Solid	3540C	7730
240-1620-5	CHASS-0002M-0001-SO	Total/NA	Solid	3540C	7730
LCS 240-8076/15-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-8076/14-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 10353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-1	LL3SB-415M-0101-SO	Total/NA	Solid	8270C/DoD	8076
240-1620-2	LL3SB-415M-0102-SO	Total/NA	Solid	8270C/DoD	8076
240-1620-3	LL3SB-415M-0103-SO	Total/NA	Solid	8270C/DoD	8076
240-1620-4	CHASS-0001M-0001-SO	Total/NA	Solid	8270C/DoD	8076
240-1620-5	CHASS-0002M-0001-SO	Total/NA	Solid	8270C/DoD	8076
LCS 240-8076/15-A	Lab Control Sample	Total/NA	Solid	8270C/DoD	8076
MB 240-8076/14-A	Method Blank	Total/NA	Solid	8270C/DoD	8076

GC Semi VOA

Leach Batch: 7730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-4	CHASS-0001M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1620-5	CHASS-0002M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1620-5 MS	CHASS-0002M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1620-5 MSD	CHASS-0002M-0001-SO	Total/NA	Solid	Increm, Prep	

GC Semi VOA (Continued)

Prep Batch: 8031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-4	CHASS-0001M-0001-SO	Total/NA	Solid	3540C	7730
240-1620-5	CHASS-0002M-0001-SO	Total/NA	Solid	3540C	7730
LCS 240-8031/20-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-8031/19-A	Method Blank	Total/NA	Solid	3540C	

Prep Batch: 8071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-4	CHASS-0001M-0001-SO	Total/NA	Solid	3540C	7730
240-1620-5	CHASS-0002M-0001-SO	Total/NA	Solid	3540C	7730
240-1620-5 MS	CHASS-0002M-0001-SO	Total/NA	Solid	3540C	7730
240-1620-5 MSD	CHASS-0002M-0001-SO	Total/NA	Solid	3540C	7730
LCS 240-8071/2-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-8071/1-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 9102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-4	CHASS-0001M-0001-SO	Total/NA	Solid	8082/DOD	8031
240-1620-5	CHASS-0002M-0001-SO	Total/NA	Solid	8082/DOD	8031

Analysis Batch: 9463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-8031/20-A	Lab Control Sample	Total/NA	Solid	8082/DOD	8031
MB 240-8031/19-A	Method Blank	Total/NA	Solid	8082/DOD	8031

Analysis Batch: 10137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-4	CHASS-0001M-0001-SO	Total/NA	Solid	8081/DOD	8071
240-1620-5	CHASS-0002M-0001-SO	Total/NA	Solid	8081/DOD	8071
240-1620-5 MS	CHASS-0002M-0001-SO	Total/NA	Solid	8081/DOD	8071
240-1620-5 MSD	CHASS-0002M-0001-SO	Total/NA	Solid	8081/DOD	8071
LCS 240-8071/2-A	Lab Control Sample	Total/NA	Solid	8081/DOD	8071
MB 240-8071/1-A	Method Blank	Total/NA	Solid	8081/DOD	8071

HPLC

Analysis Batch: 1195078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-4	CHASS-0001M-0001-SO	Total	Solid	8330/8330A	
240-1620-5	CHASS-0002M-0001-SO	Total	Solid	8330/8330A	
G1G120502001D	CHASS-0001M-0001-SO	Total	Solid	8330/8330A	
G1G120502001S	CHASS-0001M-0001-SO	Total	Solid	8330/8330A	
G1G140000078B	Method Blank	Total	Solid	8330/8330A	
G1G140000078C	Lab Control Sample	Total	Solid	8330/8330A	

Analysis Batch: 1195081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-4	CHASS-0001M-0001-SO	Total	Solid	8330 (Modified)	
240-1620-5	CHASS-0002M-0001-SO	Total	Solid	8330 (Modified)	
240-1620-5 MS	CHASS-0002M-0001-SO	Total	Solid	8330 (Modified)	
240-1620-5 MSD	CHASS-0002M-0001-SO	Total	Solid	8330 (Modified)	
G1G140000081B	Method Blank	Total	Solid	8330 (Modified)	
G1G140000081C	Lab Control Sample	Total	Solid	8330 (Modified)	

HPLC (Continued)

Prep Batch: 1195078_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-4	CHASS-0001M-0001-SO	Total	Solid	8330	
240-1620-5	CHASS-0002M-0001-SO	Total	Solid	8330	
G1G120502001D	CHASS-0001M-0001-SO	Total	Solid	8330	
G1G120502001S	CHASS-0001M-0001-SO	Total	Solid	8330	
G1G140000078B	Method Blank	Total	Solid	8330	
G1G140000078C	Lab Control Sample	Total	Solid	8330	

Prep Batch: 1195081_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-4	CHASS-0001M-0001-SO	Total	Solid	3550A	
240-1620-5	CHASS-0002M-0001-SO	Total	Solid	3550A	
240-1620-5 MS	CHASS-0002M-0001-SO	Total	Solid	3550A	
240-1620-5 MSD	CHASS-0002M-0001-SO	Total	Solid	3550A	
G1G140000081B	Method Blank	Total	Solid	3550A	
G1G140000081C	Lab Control Sample	Total	Solid	3550A	

Metals

Leach Batch: 7730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-1	LL3SB-415M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1620-2	LL3SB-415M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1620-3	LL3SB-415M-0103-SO	Total/NA	Solid	Increm, Prep	
240-1620-4	CHASS-0001M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1620-5	CHASS-0002M-0001-SO	Total/NA	Solid	Increm, Prep	

Prep Batch: 8611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-1	LL3SB-415M-0101-SO	Total/NA	Solid	3050B	7730
240-1620-2	LL3SB-415M-0102-SO	Total/NA	Solid	3050B	7730
240-1620-3	LL3SB-415M-0103-SO	Total/NA	Solid	3050B	7730
240-1620-4	CHASS-0001M-0001-SO	Total/NA	Solid	3050B	7730
240-1620-5	CHASS-0002M-0001-SO	Total/NA	Solid	3050B	7730
LCS 240-8611/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 240-8611/2-A ^10	Lab Control Sample	Total/NA	Solid	3050B	
MB 240-8611/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 8619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-4	CHASS-0001M-0001-SO	Total/NA	Solid	7471A	7730
240-1620-5	CHASS-0002M-0001-SO	Total/NA	Solid	7471A	7730
LCS 240-8619/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 240-8619/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 8899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-4	CHASS-0001M-0001-SO	Total/NA	Solid	7471/DOD	8619
240-1620-5	CHASS-0002M-0001-SO	Total/NA	Solid	7471/DOD	8619
LCS 240-8619/2-A	Lab Control Sample	Total/NA	Solid	7471/DOD	8619
MB 240-8619/1-A	Method Blank	Total/NA	Solid	7471/DOD	8619

Metals (Continued)

Analysis Batch: 13699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-4	CHASS-0001M-0001-SO	Total/NA	Solid	6020/DOD	8611
240-1620-5	CHASS-0002M-0001-SO	Total/NA	Solid	6020/DOD	8611
LCS 240-8611/2-A ^10	Lab Control Sample	Total/NA	Solid	6020/DOD	8611
MB 240-8611/1-A	Method Blank	Total/NA	Solid	6020/DOD	8611

Analysis Batch: 13778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-1	LL3SB-415M-0101-SO	Total/NA	Solid	6020/DOD	8611
240-1620-2	LL3SB-415M-0102-SO	Total/NA	Solid	6020/DOD	8611
240-1620-3	LL3SB-415M-0103-SO	Total/NA	Solid	6020/DOD	8611
240-1620-4	CHASS-0001M-0001-SO	Total/NA	Solid	6020/DOD	8611
240-1620-5	CHASS-0002M-0001-SO	Total/NA	Solid	6020/DOD	8611
LCS 240-8611/2-A	Lab Control Sample	Total/NA	Solid	6020/DOD	8611
MB 240-8611/1-A	Method Blank	Total/NA	Solid	6020/DOD	8611

General Chemistry

Analysis Batch: 7201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-6	CHASS-0001V-0001-SO	Total/NA	Solid	Moisture	
240-1620-7	CHASS-0002V-0001-SO	Total/NA	Solid	Moisture	

Leach Batch: 7730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-4	CHASS-0001M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1620-5	CHASS-0002M-0001-SO	Total/NA	Solid	Increm, Prep	

Analysis Batch: 8093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-1	LL3SB-415M-0101-SO	Total/NA	Solid	Moisture	
240-1620-2	LL3SB-415M-0102-SO	Total/NA	Solid	Moisture	
240-1620-3	LL3SB-415M-0103-SO	Total/NA	Solid	Moisture	
240-1620-4	CHASS-0001M-0001-SO	Total/NA	Solid	Moisture	
240-1620-5	CHASS-0002M-0001-SO	Total/NA	Solid	Moisture	
240-1620-5 DU	CHASS-0002M-0001-SO	Total/NA	Solid	Moisture	

Prep Batch: 8820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-4	CHASS-0001M-0001-SO	Total/NA	Solid	3060A	7730
240-1620-5	CHASS-0002M-0001-SO	Total/NA	Solid	3060A	7730
LCSI 240-8820/5-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSS 240-8820/4-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 240-8820/3-A	Method Blank	Total/NA	Solid	3060A	

Analysis Batch: 9165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-4	CHASS-0001M-0001-SO	Total/NA	Solid	7196A	8820
240-1620-5	CHASS-0002M-0001-SO	Total/NA	Solid	7196A	8820
LCSI 240-8820/5-A	Lab Control Sample	Total/NA	Solid	7196A	8820
LCSS 240-8820/4-A	Lab Control Sample	Total/NA	Solid	7196A	8820
MB 240-8820/3-A	Method Blank	Total/NA	Solid	7196A	8820

General Chemistry (Continued)

Analysis Batch: 1201012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-4	CHASS-0001M-0001-SO	Total	Solid	WS-WC-0050	
240-1620-5	CHASS-0002M-0001-SO	Total	Solid	WS-WC-0050	
G1G200000012B	Method Blank	Total	Solid	WS-WC-0050	
G1G200000012C	Lab Control Sample	Total	Solid	WS-WC-0050	

Analysis Batch: 1206169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-4	CHASS-0001M-0001-SO	Total	Solid	D 2216-90	
240-1620-5	CHASS-0002M-0001-SO	Total	Solid	D 2216-90	
G1G120502001X	CHASS-0001M-0001-SO	Total	Solid	D 2216-90	

Prep Batch: 1201012_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1620-4	CHASS-0001M-0001-SO	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	
240-1620-5	CHASS-0002M-0001-SO	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	
G1G200000012B	Method Blank	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	
G1G200000012C	Lab Control Sample	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	

Client Sample ID: LL3SB-415M-0101-SO — Lab Sample ID: 240-1620-1

Date Collected: 06/29/11 13:10 — **Matrix: Solid**
Date Received: 06/29/11 16:40 — **Percent Solids: 98.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3540C			8076	07/12/11 10:53	AK	TAL NC
Total/NA	Analysis	8270C/DoD		1	10353	07/31/11 14:00	MU	TAL NC
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3050B			8611	07/15/11 12:40	DE	TAL NC
Total/NA	Analysis	6020/DOD		1	13778	08/25/11 23:48	NJM	TAL NC
Total/NA	Analysis	Moisture		1	8093	07/12/11 11:24	AM	TAL NC

Client Sample ID: LL3SB-415M-0102-SO — Lab Sample ID: 240-1620-2

Date Collected: 06/29/11 13:10 — **Matrix: Solid**
Date Received: 06/29/11 16:40 — **Percent Solids: 98.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3540C			8076	07/12/11 10:53	AK	TAL NC
Total/NA	Analysis	8270C/DoD		1	10353	07/31/11 14:19	MU	TAL NC
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3050B			8611	07/15/11 12:40	DE	TAL NC
Total/NA	Analysis	6020/DOD		1	13778	08/25/11 23:52	NJM	TAL NC
Total/NA	Analysis	Moisture		1	8093	07/12/11 11:24	AM	TAL NC

Client Sample ID: LL3SB-415M-0103-SO — Lab Sample ID: 240-1620-3

Date Collected: 06/29/11 13:10 — **Matrix: Solid**
Date Received: 06/29/11 16:40 — **Percent Solids: 98.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3540C			8076	07/12/11 10:53	AK	TAL NC
Total/NA	Analysis	8270C/DoD		1	10353	07/31/11 14:38	MU	TAL NC
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3050B			8611	07/15/11 12:40	DE	TAL NC
Total/NA	Analysis	6020/DOD		1	13778	08/25/11 23:57	NJM	TAL NC
Total/NA	Analysis	Moisture		1	8093	07/12/11 11:24	AM	TAL NC

Client Sample ID: CHASS-0001M-0001-SO — Lab Sample ID: 240-1620-4

Date Collected: 06/29/11 12:30 — **Matrix: Solid**
Date Received: 06/29/11 16:40 — **Percent Solids: 99.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3540C			8076	07/12/11 10:53	AK	TAL NC
Total/NA	Analysis	8270C/DoD		1	10353	07/31/11 13:23	MU	TAL NC
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3540C			8071	07/12/11 10:41	SM	TAL NC
Total/NA	Analysis	8081/DOD		2	10137	07/29/11 07:33	CV	TAL NC

Client Sample ID: CHASS-0001M-0001-SO

Lab Sample ID: 240-1620-4

Date Collected: 06/29/11 12:30

Matrix: Solid

Date Received: 06/29/11 16:40

Percent Solids: 99.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			8031	07/12/11 09:19	SM	TAL NC
Total/NA	Analysis	8082/DOD		1	9102	07/20/11 20:01	LH	TAL NC
Total	Prep	8330			1195078_P	07/14/11 09:50	HJA	TAL WSC
Total	Analysis	8330/8330A		1	1195078	07/27/11 09:49	NS	TAL WSC
Total	Prep	3550A			1195081_P	07/14/11 09:55	JR	TAL WSC
Total	Analysis	8330 (Modified)		1	1195081	07/27/11 15:00	NS	TAL WSC
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3050B			8611	07/15/11 12:40	DE	TAL NC
Total/NA	Analysis	6020/DOD		1	13699	08/29/11 15:19	NJM	TAL NC
Total/NA	Analysis	6020/DOD		1	13778	08/26/11 00:13	NJM	TAL NC
Total/NA	Prep	7471A			8619	07/15/11 15:30	DE	TAL NC
Total/NA	Analysis	7471/DOD		1	8899	07/18/11 17:22	BD	TAL NC
Total/NA	Analysis	Moisture		1	8093	07/12/11 11:24	AM	TAL NC
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3060A			8820	07/18/11 14:13	LG	TAL NC
Total/NA	Analysis	7196A		1	9165	07/20/11 16:12	JM	TAL NC
Total	Prep	EXTRACTION, SOLID/SOLVENT (Manual)			1201012_P	07/20/11 05:35	HJA	TAL WSC
Total	Analysis	WS-WC-0050		1	1201012	07/21/11 12:39	JR	TAL WSC
Total	Analysis	D 2216-90		1	1206169	07/26/11 11:20	KG	TAL WSC

Client Sample ID: CHASS-0002M-0001-SO

Lab Sample ID: 240-1620-5

Date Collected: 06/29/11 12:30

Matrix: Solid

Date Received: 06/29/11 16:40

Percent Solids: 99.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3540C			8076	07/12/11 10:53	AK	TAL NC
Total/NA	Analysis	8270C/DoD		1	10353	07/31/11 13:42	MU	TAL NC
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3540C			8071	07/12/11 10:41	SM	TAL NC
Total/NA	Analysis	8081/DOD		2	10137	07/29/11 08:02	CV	TAL NC
Total/NA	Prep	3540C			8031	07/12/11 09:19	SM	TAL NC
Total/NA	Analysis	8082/DOD		1	9102	07/20/11 20:15	LH	TAL NC
Total	Prep	8330			1195078_P	07/14/11 09:50	HJA	TAL WSC
Total	Analysis	8330/8330A		0.98	1195078	07/27/11 12:30	NS	TAL WSC
Total	Prep	3550A			1195081_P	07/14/11 09:55	JR	TAL WSC
Total	Analysis	8330 (Modified)		0.95	1195081	07/27/11 15:14	NS	TAL WSC
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3050B			8611	07/15/11 12:40	DE	TAL NC
Total/NA	Analysis	6020/DOD		1	13699	08/29/11 15:23	NJM	TAL NC
Total/NA	Analysis	6020/DOD		1	13778	08/26/11 00:18	NJM	TAL NC
Total/NA	Prep	7471A			8619	07/15/11 15:30	DE	TAL NC
Total/NA	Analysis	7471/DOD		1	8899	07/18/11 17:24	BD	TAL NC

Lab Chronicle

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1620-1

Client Sample ID: CHASS-0002M-0001-SO

Lab Sample ID: 240-1620-5

Date Collected: 06/29/11 12:30
Matrix: Solid
Date Received: 06/29/11 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	8093	07/12/11 11:24	AM	TAL NC
Total/NA	Leach	Increm, Prep			7730	07/08/11 13:30	DJ	TAL NC
Total/NA	Prep	3060A			8820	07/18/11 14:13	LG	TAL NC
Total/NA	Analysis	7196A		1	9165	07/20/11 16:13	JM	TAL NC
Total	Prep	EXTRACTION, SOLID/SOLVENT (Manual)			1201012_P	07/20/11 05:35	HJA	TAL WSC
Total	Analysis	WS-WC-0050		1	1201012	07/21/11 12:41	JR	TAL WSC
Total	Analysis	D 2216-90		1	1206169	07/26/11 11:20	KG	TAL WSC

Client Sample ID: CHASS-0001V-0001-SO

Lab Sample ID: 240-1620-6

Date Collected: 06/29/11 12:35
Matrix: Solid
Date Received: 06/29/11 16:40
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7596	07/07/11 15:43	BF	TAL NC
Total/NA	Analysis	8260B/DoD		1	7735	07/08/11 18:08	SM	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 16:58	AM	TAL NC

Client Sample ID: CHASS-0002V-0001-SO

Lab Sample ID: 240-1620-7

Date Collected: 06/29/11 12:35
Matrix: Solid
Date Received: 06/29/11 16:40
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7596	07/07/11 15:43	BF	TAL NC
Total/NA	Analysis	8260B/DoD		1	7735	07/08/11 17:47	SM	TAL NC
Total/NA	Analysis	Moisture		1	7201	07/05/11 16:58	AM	TAL NC

Laboratory References:
TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396
TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1620-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica North Canton	ACLASS	DoD ELAP		ADE-1437
TestAmerica North Canton	California	NELAC	9	01144CA
TestAmerica North Canton	Connecticut	State Program	1	PH-0590
TestAmerica North Canton	Florida	NELAC	4	E87225
TestAmerica North Canton	Georgia	Georgia EPD	4	N/A
TestAmerica North Canton	Illinois	NELAC	5	200004
TestAmerica North Canton	Kansas	NELAC	7	E-10336
TestAmerica North Canton	Kentucky	State Program	4	58
TestAmerica North Canton	Minnesota	NELAC	5	039-999-348
TestAmerica North Canton	Nevada	State Program	9	OH-000482008A
TestAmerica North Canton	New Jersey	NELAC	2	OH001
TestAmerica North Canton	New York	NELAC	2	10975
TestAmerica North Canton	Ohio	OVAP	5	CL0024
TestAmerica North Canton	Pennsylvania	NELAC	3	68-00340
TestAmerica North Canton	USDA	USDA		P330-11-00328
TestAmerica North Canton	Virginia	NELAC Secondary AB	3	460175
TestAmerica North Canton	West Virginia	West Virginia DEP	3	210
TestAmerica North Canton	Wisconsin	State Program	5	999518190
TestAmerica West Sacramento		USEPA UCMR		CA00044
TestAmerica West Sacramento	A2LA	DoD ELAP		2928-01
TestAmerica West Sacramento	Alaska	Alaska UST	10	UST-055
TestAmerica West Sacramento	Arizona	State Program	9	AZ0708
TestAmerica West Sacramento	Arkansas	State Program	6	88-0691
TestAmerica West Sacramento	California	NELAC	9	1119CA
TestAmerica West Sacramento	Colorado	State Program	8	N/A
TestAmerica West Sacramento	Connecticut	State Program	1	PH-0691
TestAmerica West Sacramento	Florida	NELAC	4	E87570
TestAmerica West Sacramento	Georgia	State Program	4	960
TestAmerica West Sacramento	Guam	State Program	9	N/A
TestAmerica West Sacramento	Hawaii	State Program	9	N/A
TestAmerica West Sacramento	Illinois	NELAC	5	200060
TestAmerica West Sacramento	Kansas	NELAC	7	E-10375
TestAmerica West Sacramento	Louisiana	NELAC	6	30612
TestAmerica West Sacramento	Michigan	State Program	5	9947
TestAmerica West Sacramento	Nevada	State Program	9	CA44
TestAmerica West Sacramento	New Jersey	NELAC	2	CA005
TestAmerica West Sacramento	New Mexico	State Program	6	N/A
TestAmerica West Sacramento	New York	NELAC	2	11666
TestAmerica West Sacramento	Oregon	NELAC	10	CA200005
TestAmerica West Sacramento	Pennsylvania	NELAC	3	68-01272
TestAmerica West Sacramento	South Carolina	State Program	4	87014
TestAmerica West Sacramento	Texas	NELAC	6	T104704399-08-TX
TestAmerica West Sacramento	US Fish & Wildlife	US Fish & Wildlife		LE148388-0
TestAmerica West Sacramento	USDA	USDA		P330-09-00055
TestAmerica West Sacramento	Utah	NELAC	8	QUAN1
TestAmerica West Sacramento	Virginia	State Program	3	178
TestAmerica West Sacramento	Washington	State Program	10	C581
TestAmerica West Sacramento	West Virginia	West Virginia DEP	3	334
TestAmerica West Sacramento	West Virginia	West Virginia DHHR (DW)	3	9930C
TestAmerica West Sacramento	Wisconsin	State Program	5	998204680
TestAmerica West Sacramento	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: NORTH CANTON

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other RVAAP

TestAmerica Laboratories, Inc.

COC No: 014330

_____ of _____ COCs

Client Contact	Client Project Manager:	Site Contact:	Lab Contact:
Company Name: PRUDENT TECH	JOHN JENT	JOHN JENT	MARK LOEB
Address: 4242 MEDICAL DR SUITE 5250	Telephone: 502 439-8005	Telephone: 502 439 8005	Telephone: 330-497-9396
City/State/Zip: SAN ANTONIO, TX 78229	Email: JJjent@prudentweb.com		
Phone: 210 822-9588			
Project Name: LLs 1-4, 12	Method of Shipment/Carrier: COURIER		
Project Number: W912QR-10-P-0037	Shipping/Tracking No:		
PO#			

Analysis Turnaround Time (in BUS days)

TAT if different from below _____

☐ 3 weeks
☒ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

For lab use only

Walk-in client ☐
Lab pickup ☐
Lab sampling ☐

Job/SDG No:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	Analyses: ARSENIC TAL 6010B	7471A HG	7196 CR+6	8330B NOM EXPL	PROPELLANTS	8270C SVOCs	8081 PESTICIDES	8082 PCBs	8270C LL (PAH)	8260B VOC	Sample Specific Notes / Special Instructions:
LL35B-415M-0101-SO	6-29-2011	1310				X											X								X		
LL35B-415M-0102-SO		1310				X											X								X		
LL35B-415M-0103-SO		1310				X											X								X		
CHASS-0001M-0001-SO		1230				X											X	X	X	X	X	X	X	X			
CHASS-0002M-0001-SO		1230				X											X	X	X	X	X	X	X	X			
CHASS-0001V-0001-SO		1235				X								MeOH												X	
CHASS-0002V-0001-SO		1235				X								MeOH												X	

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
John P Jent	PRUDENT	6-29-2011 1600		TAL-NE	6/29/11 1600
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TAL-NE	6/30/11 1640			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			Gil Clark	TAL	6-29-11 1640

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TAL 0018- 1 (04/10)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 240-1626
North Canton Facility

Client Prudent Project _____ By: _____
Cooler Received on 6/29/11 Opened on 6-30-11 (Signature)
FedEx ☐ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☒ TestAmerica Courier ☐ Other _____
TestAmerica Cooler # No# Multiple Coolers ☐ Foam Box ☐ Client Cooler ☒ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒
   If YES, Quantity_____ Quantity Unsalvageable_____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☒
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☐ No ☒
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other _____
6. Cooler temperature upon receipt 2.0 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐ _____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? 6-30-11 Yes ☒ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s)_____ were received after the recommended holding time had expired.
Sample(s)_____ were received in a broken container.
Sample(s)_____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN$/*NaOH*. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant

Discrepancies Cont'd:

Login Sample Receipt Checklist

Client: Prudent Technologies, Inc

Job Number: 240-1620-1

Login Number: 1620

List Source: TestAmerica North Canton

List Number: 1

Creator: Livengood, Chris

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	2.0
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica North Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-1650-1
Client Project/Site: RVAAP

For:
Prudent Technologies, Inc
4242 Medical Drive
Suite 7250
San Antonio, Texas 78229

Attn: Ms. Amanda L. Miller

Authorized for release by:
09/19/2011 03:20:52 PM

Mark Loeb
Project Manager II
mark.loeb@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Definitions/Glossary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1650-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Job ID: 240-1650-1

Laboratory: TestAmerica North Canton

Narrative

CASE NARRATIVE

Client: Prudent Technologies, Inc

Project: RVAAP

Report Number: 240-1650-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

TestAmerica utilizes USEPA approved methods and DOD QSM, where applicable, in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters for which TestAmerica North Canton has certification were evaluated to the limit of detection (LOD) and include qualified results where applicable. Parameters not certified under QSM, if any, were evaluated to the detection limit (DL) and include qualified results where applicable.

The sample(s) that contain constituents flagged with U are undetected. The result associated with this flag is the limit of detection (LOD).

RECEIPT

The samples were received on 07/01/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.2 C.

SEMIVOLATILE ORGANIC COMPOUNDS (GC MS)

Samples LL2SB-514M-0101-SO (240-1650-1), LL2SB-514M-0102-SO (240-1650-2), LL2SB-514M-0103-SO (240-1650-3), LL2SB-515M-0101-SO (240-1650-4), LL2SB-515M-0102-SO (240-1650-5), LL2SB-515M-0103-SO (240-1650-6), LL2SB-513M-0101-SO (240-1650-7), LL2SB-513M-0102-SO (240-1650-8) and LL2SB-513M-0103-SO (240-1650-9) were analyzed for semivolatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8270 DoD. The samples were leached on 07/02/2011 and 07/08/2011, prepared on 07/12/2011 and 08/08/2011 and analyzed on 07/31/2011 and 08/11/2011.

2-Fluorobiphenyl (Surr) failed the surrogate recovery criteria low for LL2SB-515M-0103-SO (240-1650-6). Upon reextraction and

Job ID: 240-1650-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

reanalysis surrogate recoveries were again below acceptance criteria, indicating a probable matrix effect. The initial results have been reported.

Dibenz(a,h)anthracene failed the recovery criteria low for the MS and MSD of sample LL2SB-513M-0102-SO (240-1650-8) in batch 240-10353. Dibenz(a,h)anthracene exceeded the rpd limit. Refer to the QC report for details.

Samples LL2SB-513M-0101-SO (240-1650-7)[4X], LL2SB-513M-0102-SO (240-1650-8)[5X] and LL2SB-513M-0103-SO (240-1650-9)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the SVOCs analyses. All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples LL2SB-514M-0101-SO (240-1650-1), LL2SB-514M-0102-SO (240-1650-2), LL2SB-514M-0103-SO (240-1650-3), LL2SB-515M-0101-SO (240-1650-4), LL2SB-515M-0102-SO (240-1650-5), LL2SB-515M-0103-SO (240-1650-6), LL2SB-513M-0101-SO (240-1650-7), LL2SB-513M-0102-SO (240-1650-8) and LL2SB-513M-0103-SO (240-1650-9) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082 DOD. The samples were leached on 07/08/2011, prepared on 07/12/2011 and analyzed on 07/14/2011, 07/21/2011 and 07/23/2011.

Sample LL2SB-515M-0102-SO (240-1650-5)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Two surrogates are used for this analysis. The laboratory's SOP allows 1 of 2 of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: LL2SB-515M-0102-SO. DCB Decachlorobiphenyl failed the surrogate recovery criteria high for LL2SB-515M-0102-SO (240-1650-5). Refer to the QC report for details.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: LL2SB-513M-0102-SO, LL2SB-513M-0103-SO, LL2SB-515M-0103-SO.

No other difficulties were encountered during the PCBs analyses. All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples LL2SB-514M-0101-SO (240-1650-1), LL2SB-514M-0102-SO (240-1650-2), LL2SB-514M-0103-SO (240-1650-3), LL2SB-515M-0101-SO (240-1650-4), LL2SB-515M-0102-SO (240-1650-5), LL2SB-515M-0103-SO (240-1650-6), LL2SB-513M-0101-SO (240-1650-7), LL2SB-513M-0102-SO (240-1650-8) and LL2SB-513M-0103-SO (240-1650-9) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 07/11/2011.

No difficulties were encountered during the % solids analyses. All quality control parameters were within the acceptance limits.

Method Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1650-1

Method	Method Description	Protocol	Laboratory
8270C/DoD	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NC
8082/DOD	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL NC
Moisture	Percent Moisture	EPA	TAL NC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1650-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-1650-1	LL2SB-514M-0101-SO	Solid	07/01/11 09:45	07/01/11 15:00
240-1650-2	LL2SB-514M-0102-SO	Solid	07/01/11 09:45	07/01/11 15:00
240-1650-3	LL2SB-514M-0103-SO	Solid	07/01/11 09:45	07/01/11 15:00
240-1650-4	LL2SB-515M-0101-SO	Solid	07/01/11 10:50	07/01/11 15:00
240-1650-5	LL2SB-515M-0102-SO	Solid	07/01/11 10:50	07/01/11 15:00
240-1650-6	LL2SB-515M-0103-SO	Solid	07/01/11 10:50	07/01/11 15:00
240-1650-7	LL2SB-513M-0101-SO	Solid	07/01/11 13:18	07/01/11 15:00
240-1650-8	LL2SB-513M-0102-SO	Solid	07/01/11 13:18	07/01/11 15:00
240-1650-9	LL2SB-513M-0103-SO	Solid	07/01/11 13:18	07/01/11 15:00

Detection Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1650-1

Client Sample ID: LL2SB-514M-0101-SO — Lab Sample ID: 240-1650-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	220		56	17	ug/Kg	1	☼	8082/DOD	Total/NA
Aroclor 1254	210		56	17	ug/Kg	1	☼	8082/DOD	Total/NA

Client Sample ID: LL2SB-514M-0102-SO — Lab Sample ID: 240-1650-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	54	J	56	17	ug/Kg	1	☼	8082/DOD	Total/NA
Aroclor 1254	46	J	56	17	ug/Kg	1	☼	8082/DOD	Total/NA

Client Sample ID: LL2SB-514M-0103-SO — Lab Sample ID: 240-1650-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	17	J	56	17	ug/Kg	1	☼	8082/DOD	Total/NA

Client Sample ID: LL2SB-515M-0101-SO — Lab Sample ID: 240-1650-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	320		56	17	ug/Kg	1	☼	8082/DOD	Total/NA
Aroclor 1254	340		56	17	ug/Kg	1	☼	8082/DOD	Total/NA

Client Sample ID: LL2SB-515M-0102-SO — Lab Sample ID: 240-1650-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1248	160		110	35	ug/Kg	2	☼	8082/DOD	Total/NA
Aroclor 1248	650		110	35	ug/Kg	2	☼	8082/DOD	Total/NA
Aroclor 1260	290		110	35	ug/Kg	2	☼	8082/DOD	Total/NA
Aroclor 1260	390		110	35	ug/Kg	2	☼	8082/DOD	Total/NA

Client Sample ID: LL2SB-515M-0103-SO — Lab Sample ID: 240-1650-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	43	J	55	17	ug/Kg	1	☼	8082/DOD	Total/NA
Aroclor 1254	48	J	55	17	ug/Kg	1	☼	8082/DOD	Total/NA

Client Sample ID: LL2SB-513M-0101-SO — Lab Sample ID: 240-1650-7

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	100		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Acenaphthylene	140		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Anthracene	420		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	1000		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	880		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	1100	M	27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	520		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	680	M	27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Chrysene	1100		27	4.5	ug/Kg	4	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	160		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Fluoranthene	2400		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Fluorene	220		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	500		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Naphthalene	73		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Pyrene	1700		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Phenanthrene	1800		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Aroclor 1254	520	J	56	17	ug/Kg	1	☼	8082/DOD	Total/NA

Detection Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1650-1

Client Sample ID: LL2SB-513M-0101-SO (Continued) — Lab Sample ID: 240-1650-7

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	540	J	56	17	ug/Kg	1	☼	8082/DOD	Total/NA

Client Sample ID: LL2SB-513M-0102-SO — Lab Sample ID: 240-1650-8

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	220		56	17	ug/Kg	1	☼	8082/DOD	Total/NA
Aroclor 1254	240		56	17	ug/Kg	1	☼	8082/DOD	Total/NA

Client Sample ID: LL2SB-513M-0103-SO — Lab Sample ID: 240-1650-9

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	52	J	56	17	ug/Kg	1	☼	8082/DOD	Total/NA
Aroclor 1254	35	J	56	17	ug/Kg	1	☼	8082/DOD	Total/NA

Client Sample ID: LL2SB-514M-0101-SO

Date Collected: 07/01/11 09:45
Date Received: 07/01/11 15:00

Lab Sample ID: 240-1650-1

Matrix: Solid
Percent Solids: 98.3

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/14/11 19:15	1
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/14/11 19:15	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/12/11 09:19	07/14/11 19:15	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/12/11 09:19	07/14/11 19:15	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/12/11 09:19	07/14/11 19:15	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/12/11 09:19	07/14/11 19:15	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/12/11 09:19	07/14/11 19:15	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/12/11 09:19	07/14/11 19:15	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 19:15	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 19:15	1
Aroclor 1254	**220**		56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 19:15	1
Aroclor 1254	**210**		56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 19:15	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 19:15	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 19:15	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*40 - 140*	*07/12/11 09:19*	*07/14/11 19:15*	*1*
Tetrachloro-m-xylene	*75*		*40 - 140*	*07/12/11 09:19*	*07/14/11 19:15*	*1*
DCB Decachlorobiphenyl	*87*		*60 - 125*	*07/12/11 09:19*	*07/14/11 19:15*	*1*
DCB Decachlorobiphenyl	*85*		*60 - 125*	*07/12/11 09:19*	*07/14/11 19:15*	*1*

Client Sample ID: LL2SB-514M-0102-SO

Date Collected: 07/01/11 09:45
Date Received: 07/01/11 15:00

Lab Sample ID: 240-1650-2

Matrix: Solid
Percent Solids: 98.1

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/14/11 19:44	1
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/14/11 19:44	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/12/11 09:19	07/14/11 19:44	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/12/11 09:19	07/14/11 19:44	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/12/11 09:19	07/14/11 19:44	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/12/11 09:19	07/14/11 19:44	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/12/11 09:19	07/14/11 19:44	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/12/11 09:19	07/14/11 19:44	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 19:44	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 19:44	1
Aroclor 1254	**54**	**J**	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 19:44	1
Aroclor 1254	**46**	**J**	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 19:44	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 19:44	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 19:44	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*40 - 140*	*07/12/11 09:19*	*07/14/11 19:44*	*1*
Tetrachloro-m-xylene	*71*		*40 - 140*	*07/12/11 09:19*	*07/14/11 19:44*	*1*
DCB Decachlorobiphenyl	*89*		*60 - 125*	*07/12/11 09:19*	*07/14/11 19:44*	*1*
DCB Decachlorobiphenyl	*79*		*60 - 125*	*07/12/11 09:19*	*07/14/11 19:44*	*1*

Client Sample ID: LL2SB-514M-0103-SO

Date Collected: 07/01/11 09:45
Date Received: 07/01/11 15:00

Lab Sample ID: 240-1650-3

Matrix: Solid
Percent Solids: 98.4

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/14/11 19:59	1
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/14/11 19:59	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/12/11 09:19	07/14/11 19:59	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/12/11 09:19	07/14/11 19:59	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/12/11 09:19	07/14/11 19:59	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/12/11 09:19	07/14/11 19:59	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/12/11 09:19	07/14/11 19:59	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/12/11 09:19	07/14/11 19:59	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 19:59	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 19:59	1
Aroclor 1254	**17**	**J**	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 19:59	1
Aroclor 1254	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 19:59	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 19:59	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 19:59	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*40 - 140*	*07/12/11 09:19*	*07/14/11 19:59*	*1*
Tetrachloro-m-xylene	*73*		*40 - 140*	*07/12/11 09:19*	*07/14/11 19:59*	*1*
DCB Decachlorobiphenyl	*82*		*60 - 125*	*07/12/11 09:19*	*07/14/11 19:59*	*1*
DCB Decachlorobiphenyl	*72*		*60 - 125*	*07/12/11 09:19*	*07/14/11 19:59*	*1*

Client Sample ID: LL2SB-515M-0101-SO

Date Collected: 07/01/11 10:50
Date Received: 07/01/11 15:00

Lab Sample ID: 240-1650-4

Matrix: Solid
Percent Solids: 98.3

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/14/11 20:13	1
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/14/11 20:13	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/12/11 09:19	07/14/11 20:13	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/12/11 09:19	07/14/11 20:13	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/12/11 09:19	07/14/11 20:13	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/12/11 09:19	07/14/11 20:13	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/12/11 09:19	07/14/11 20:13	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/12/11 09:19	07/14/11 20:13	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 20:13	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 20:13	1
Aroclor 1254	**320**		56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 20:13	1
Aroclor 1254	**340**		56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 20:13	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 20:13	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 20:13	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*40 - 140*	*07/12/11 09:19*	*07/14/11 20:13*	*1*
Tetrachloro-m-xylene	*89*		*40 - 140*	*07/12/11 09:19*	*07/14/11 20:13*	*1*
DCB Decachlorobiphenyl	*90*		*60 - 125*	*07/12/11 09:19*	*07/14/11 20:13*	*1*
DCB Decachlorobiphenyl	*95*		*60 - 125*	*07/12/11 09:19*	*07/14/11 20:13*	*1*

Client Sample ID: LL2SB-515M-0102-SO

Date Collected: 07/01/11 10:50
Date Received: 07/01/11 15:00

Lab Sample ID: 240-1650-5

Matrix: Solid
Percent Solids: 98.4

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	50	U	130	43	ug/Kg	☼	07/12/11 09:19	07/21/11 03:07	2
Aroclor 1016	50	U	130	43	ug/Kg	☼	07/12/11 09:19	07/21/11 03:07	2
Aroclor 1221	50	U	100	33	ug/Kg	☼	07/12/11 09:19	07/21/11 03:07	2
Aroclor 1221	50	U	100	33	ug/Kg	☼	07/12/11 09:19	07/21/11 03:07	2
Aroclor 1232	50	U	92	28	ug/Kg	☼	07/12/11 09:19	07/21/11 03:07	2
Aroclor 1232	50	U	92	28	ug/Kg	☼	07/12/11 09:19	07/21/11 03:07	2
Aroclor 1242	50	U	81	26	ug/Kg	☼	07/12/11 09:19	07/21/11 03:07	2
Aroclor 1242	50	U	81	26	ug/Kg	☼	07/12/11 09:19	07/21/11 03:07	2
Aroclor 1248	**160**		110	35	ug/Kg	☼	07/12/11 09:19	07/21/11 03:07	2
Aroclor 1248	**650**		110	35	ug/Kg	☼	07/12/11 09:19	07/21/11 03:07	2
Aroclor 1254	50	U	110	35	ug/Kg	☼	07/12/11 09:19	07/21/11 03:07	2
Aroclor 1254	50	U	110	35	ug/Kg	☼	07/12/11 09:19	07/21/11 03:07	2
Aroclor 1260	**290**		110	35	ug/Kg	☼	07/12/11 09:19	07/21/11 03:07	2
Aroclor 1260	**390**		110	35	ug/Kg	☼	07/12/11 09:19	07/21/11 03:07	2

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*40 - 140*	*07/12/11 09:19*	*07/21/11 03:07*	*2*
Tetrachloro-m-xylene	*82*		*40 - 140*	*07/12/11 09:19*	*07/21/11 03:07*	*2*
DCB Decachlorobiphenyl	*168*	*Q*	*60 - 125*	*07/12/11 09:19*	*07/21/11 03:07*	*2*
DCB Decachlorobiphenyl	*176*	*Q*	*60 - 125*	*07/12/11 09:19*	*07/21/11 03:07*	*2*

Client Sample ID: LL2SB-515M-0103-SO

Date Collected: 07/01/11 10:50
Date Received: 07/01/11 15:00

Lab Sample ID: 240-1650-6

Matrix: Solid
Percent Solids: 98.6

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/23/11 20:06	1
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/23/11 20:06	1
Aroclor 1221	25	U	50	16	ug/Kg	☼	07/12/11 09:19	07/23/11 20:06	1
Aroclor 1221	25	U	50	16	ug/Kg	☼	07/12/11 09:19	07/23/11 20:06	1
Aroclor 1232	25	U	45	14	ug/Kg	☼	07/12/11 09:19	07/23/11 20:06	1
Aroclor 1232	25	U	45	14	ug/Kg	☼	07/12/11 09:19	07/23/11 20:06	1
Aroclor 1242	25	U	40	13	ug/Kg	☼	07/12/11 09:19	07/23/11 20:06	1
Aroclor 1242	25	U	40	13	ug/Kg	☼	07/12/11 09:19	07/23/11 20:06	1
Aroclor 1248	25	U	55	17	ug/Kg	☼	07/12/11 09:19	07/23/11 20:06	1
Aroclor 1248	25	U	55	17	ug/Kg	☼	07/12/11 09:19	07/23/11 20:06	1
Aroclor 1254	**43**	**J**	55	17	ug/Kg	☼	07/12/11 09:19	07/23/11 20:06	1
Aroclor 1254	**48**	**J**	55	17	ug/Kg	☼	07/12/11 09:19	07/23/11 20:06	1
Aroclor 1260	25	U	55	17	ug/Kg	☼	07/12/11 09:19	07/23/11 20:06	1
Aroclor 1260	25	U	55	17	ug/Kg	☼	07/12/11 09:19	07/23/11 20:06	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*40 - 140*	*07/12/11 09:19*	*07/23/11 20:06*	*1*
Tetrachloro-m-xylene	*74*		*40 - 140*	*07/12/11 09:19*	*07/23/11 20:06*	*1*
DCB Decachlorobiphenyl	*67*		*60 - 125*	*07/12/11 09:19*	*07/23/11 20:06*	*1*
DCB Decachlorobiphenyl	*79*		*60 - 125*	*07/12/11 09:19*	*07/23/11 20:06*	*1*

Client Sample ID: LL2SB-513M-0101-SO
Date Collected: 07/01/11 13:18
Date Received: 07/01/11 15:00

Lab Sample ID: 240-1650-7
Matrix: Solid
Percent Solids: 97.9

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100		27	13	ug/Kg	☼	07/12/11 10:53	07/31/11 17:28	4
Acenaphthylene	140		27	13	ug/Kg	☼	07/12/11 10:53	07/31/11 17:28	4
Anthracene	420		27	13	ug/Kg	☼	07/12/11 10:53	07/31/11 17:28	4
Benzo[a]anthracene	1000		27	13	ug/Kg	☼	07/12/11 10:53	07/31/11 17:28	4
Benzo[a]pyrene	880		27	13	ug/Kg	☼	07/12/11 10:53	07/31/11 17:28	4
Benzo[b]fluoranthene	1100	M	27	13	ug/Kg	☼	07/12/11 10:53	07/31/11 17:28	4
Benzo[g,h,i]perylene	520		27	13	ug/Kg	☼	07/12/11 10:53	07/31/11 17:28	4
Benzo[k]fluoranthene	680	M	27	13	ug/Kg	☼	07/12/11 10:53	07/31/11 17:28	4
Chrysene	1100		27	4.5	ug/Kg	☼	07/12/11 10:53	07/31/11 17:28	4
Dibenz(a,h)anthracene	160		27	13	ug/Kg	☼	07/12/11 10:53	07/31/11 17:28	4
Fluoranthene	2400		27	13	ug/Kg	☼	07/12/11 10:53	07/31/11 17:28	4
Fluorene	220		27	13	ug/Kg	☼	07/12/11 10:53	07/31/11 17:28	4
Indeno[1,2,3-cd]pyrene	500		27	13	ug/Kg	☼	07/12/11 10:53	07/31/11 17:28	4
Naphthalene	73		27	13	ug/Kg	☼	07/12/11 10:53	07/31/11 17:28	4
Pyrene	1700		27	13	ug/Kg	☼	07/12/11 10:53	07/31/11 17:28	4
Phenanthrene	1800		27	13	ug/Kg	☼	07/12/11 10:53	07/31/11 17:28	4

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*61*		*45 - 105*	*07/12/11 10:53*	*07/31/11 17:28*	*4*
2-Fluorophenol (Surr)	*70*		*35 - 105*	*07/12/11 10:53*	*07/31/11 17:28*	*4*
Nitrobenzene-d5 (Surr)	*56*		*35 - 100*	*07/12/11 10:53*	*07/31/11 17:28*	*4*
Terphenyl-d14 (Surr)	*77*		*30 - 125*	*07/12/11 10:53*	*07/31/11 17:28*	*4*
2,4,6-Tribromophenol (Surr)	*62*		*35 - 125*	*07/12/11 10:53*	*07/31/11 17:28*	*4*
Phenol-d5 (Surr)	*75*		*40 - 100*	*07/12/11 10:53*	*07/31/11 17:28*	*4*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/14/11 20:57	1
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/14/11 20:57	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/12/11 09:19	07/14/11 20:57	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/12/11 09:19	07/14/11 20:57	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/12/11 09:19	07/14/11 20:57	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/12/11 09:19	07/14/11 20:57	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/12/11 09:19	07/14/11 20:57	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/12/11 09:19	07/14/11 20:57	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 20:57	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 20:57	1
Aroclor 1254	520	J	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 20:57	1
Aroclor 1254	540	J	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 20:57	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 20:57	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/14/11 20:57	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*40 - 140*	*07/12/11 09:19*	*07/14/11 20:57*	*1*
Tetrachloro-m-xylene	*84*		*40 - 140*	*07/12/11 09:19*	*07/14/11 20:57*	*1*
DCB Decachlorobiphenyl	*114*		*60 - 125*	*07/12/11 09:19*	*07/14/11 20:57*	*1*
DCB Decachlorobiphenyl	*82*		*60 - 125*	*07/12/11 09:19*	*07/14/11 20:57*	*1*

Client Sample ID: LL2SB-513M-0102-SO
Date Collected: 07/01/11 13:18
Date Received: 07/01/11 15:00

Lab Sample ID: 240-1650-8
Matrix: Solid
Percent Solids: 97.8

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	17	U	34	17	ug/Kg	☼	07/12/11 10:53	07/31/11 18:05	5
Acenaphthylene	17	U	34	17	ug/Kg	☼	07/12/11 10:53	07/31/11 18:05	5
Anthracene	17	U	34	17	ug/Kg	☼	07/12/11 10:53	07/31/11 18:05	5
Benzo[a]anthracene	17	U	34	17	ug/Kg	☼	07/12/11 10:53	07/31/11 18:05	5
Benzo[a]pyrene	17	U	34	17	ug/Kg	☼	07/12/11 10:53	07/31/11 18:05	5
Benzo[b]fluoranthene	17	U	34	17	ug/Kg	☼	07/12/11 10:53	07/31/11 18:05	5
Benzo[g,h,i]perylene	17	U	34	17	ug/Kg	☼	07/12/11 10:53	07/31/11 18:05	5
Benzo[k]fluoranthene	17	U	34	17	ug/Kg	☼	07/12/11 10:53	07/31/11 18:05	5
Chrysene	17	U	34	5.6	ug/Kg	☼	07/12/11 10:53	07/31/11 18:05	5
Dibenz(a,h)anthracene	17	U J	34	17	ug/Kg	☼	07/12/11 10:53	07/31/11 18:05	5
Fluoranthene	17	U	34	17	ug/Kg	☼	07/12/11 10:53	07/31/11 18:05	5
Fluorene	17	U	34	17	ug/Kg	☼	07/12/11 10:53	07/31/11 18:05	5
Indeno[1,2,3-cd]pyrene	17	U	34	17	ug/Kg	☼	07/12/11 10:53	07/31/11 18:05	5
Naphthalene	17	U	34	17	ug/Kg	☼	07/12/11 10:53	07/31/11 18:05	5
Pyrene	17	U	34	17	ug/Kg	☼	07/12/11 10:53	07/31/11 18:05	5
Phenanthrene	17	U	34	17	ug/Kg	☼	07/12/11 10:53	07/31/11 18:05	5

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*		*45 - 105*	*07/12/11 10:53*	*07/31/11 18:05*	*5*
2-Fluorophenol (Surr)	*65*		*35 - 105*	*07/12/11 10:53*	*07/31/11 18:05*	*5*
Nitrobenzene-d5 (Surr)	*57*		*35 - 100*	*07/12/11 10:53*	*07/31/11 18:05*	*5*
Terphenyl-d14 (Surr)	*75*		*30 - 125*	*07/12/11 10:53*	*07/31/11 18:05*	*5*
2,4,6-Tribromophenol (Surr)	*59*		*35 - 125*	*07/12/11 10:53*	*07/31/11 18:05*	*5*
Phenol-d5 (Surr)	*69*		*40 - 100*	*07/12/11 10:53*	*07/31/11 18:05*	*5*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/23/11 20:21	1
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/23/11 20:21	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/12/11 09:19	07/23/11 20:21	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/12/11 09:19	07/23/11 20:21	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/12/11 09:19	07/23/11 20:21	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/12/11 09:19	07/23/11 20:21	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/12/11 09:19	07/23/11 20:21	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/12/11 09:19	07/23/11 20:21	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/23/11 20:21	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/23/11 20:21	1
Aroclor 1254	**220**		56	17	ug/Kg	☼	07/12/11 09:19	07/23/11 20:21	1
Aroclor 1254	**240**		56	17	ug/Kg	☼	07/12/11 09:19	07/23/11 20:21	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/23/11 20:21	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/23/11 20:21	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*40 - 140*	*07/12/11 09:19*	*07/23/11 20:21*	*1*
Tetrachloro-m-xylene	*71*		*40 - 140*	*07/12/11 09:19*	*07/23/11 20:21*	*1*
DCB Decachlorobiphenyl	*84*		*60 - 125*	*07/12/11 09:19*	*07/23/11 20:21*	*1*
DCB Decachlorobiphenyl	*85*		*60 - 125*	*07/12/11 09:19*	*07/23/11 20:21*	*1*

Client Sample ID: LL2SB-513M-0103-SO
Date Collected: 07/01/11 13:18
Date Received: 07/01/11 15:00

Lab Sample ID: 240-1650-9
Matrix: Solid
Percent Solids: 98.0

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	34	U	68	34	ug/Kg	☼	07/12/11 10:53	07/31/11 17:46	10
Acenaphthylene	34	U	68	34	ug/Kg	☼	07/12/11 10:53	07/31/11 17:46	10
Anthracene	34	U	68	34	ug/Kg	☼	07/12/11 10:53	07/31/11 17:46	10
Benzo[a]anthracene	34	U	68	34	ug/Kg	☼	07/12/11 10:53	07/31/11 17:46	10
Benzo[a]pyrene	34	U	68	34	ug/Kg	☼	07/12/11 10:53	07/31/11 17:46	10
Benzo[b]fluoranthene	34	U	68	34	ug/Kg	☼	07/12/11 10:53	07/31/11 17:46	10
Benzo[g,h,i]perylene	34	U	68	34	ug/Kg	☼	07/12/11 10:53	07/31/11 17:46	10
Benzo[k]fluoranthene	34	U	68	34	ug/Kg	☼	07/12/11 10:53	07/31/11 17:46	10
Chrysene	34	U	68	11	ug/Kg	☼	07/12/11 10:53	07/31/11 17:46	10
Dibenz(a,h)anthracene	34	U	68	34	ug/Kg	☼	07/12/11 10:53	07/31/11 17:46	10
Fluoranthene	34	U	68	34	ug/Kg	☼	07/12/11 10:53	07/31/11 17:46	10
Fluorene	34	U	68	34	ug/Kg	☼	07/12/11 10:53	07/31/11 17:46	10
Indeno[1,2,3-cd]pyrene	34	U	68	34	ug/Kg	☼	07/12/11 10:53	07/31/11 17:46	10
Naphthalene	34	U	68	34	ug/Kg	☼	07/12/11 10:53	07/31/11 17:46	10
Pyrene	34	U	68	34	ug/Kg	☼	07/12/11 10:53	07/31/11 17:46	10
Phenanthrene	34	U	68	34	ug/Kg	☼	07/12/11 10:53	07/31/11 17:46	10

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*		*45 - 105*	*07/12/11 10:53*	*07/31/11 17:46*	*10*
2-Fluorophenol (Surr)	*66*		*35 - 105*	*07/12/11 10:53*	*07/31/11 17:46*	*10*
Nitrobenzene-d5 (Surr)	*62*		*35 - 100*	*07/12/11 10:53*	*07/31/11 17:46*	*10*
Terphenyl-d14 (Surr)	*79*		*30 - 125*	*07/12/11 10:53*	*07/31/11 17:46*	*10*
2,4,6-Tribromophenol (Surr)	*60*		*35 - 125*	*07/12/11 10:53*	*07/31/11 17:46*	*10*
Phenol-d5 (Surr)	*76*		*40 - 100*	*07/12/11 10:53*	*07/31/11 17:46*	*10*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/23/11 20:35	1
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/12/11 09:19	07/23/11 20:35	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/12/11 09:19	07/23/11 20:35	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/12/11 09:19	07/23/11 20:35	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/12/11 09:19	07/23/11 20:35	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/12/11 09:19	07/23/11 20:35	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/12/11 09:19	07/23/11 20:35	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/12/11 09:19	07/23/11 20:35	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/23/11 20:35	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/23/11 20:35	1
Aroclor 1254	**52**	**J**	56	17	ug/Kg	☼	07/12/11 09:19	07/23/11 20:35	1
Aroclor 1254	**35**	**J**	56	17	ug/Kg	☼	07/12/11 09:19	07/23/11 20:35	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/23/11 20:35	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/12/11 09:19	07/23/11 20:35	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*40 - 140*	*07/12/11 09:19*	*07/23/11 20:35*	*1*
Tetrachloro-m-xylene	*75*		*40 - 140*	*07/12/11 09:19*	*07/23/11 20:35*	*1*
DCB Decachlorobiphenyl	*74*		*60 - 125*	*07/12/11 09:19*	*07/23/11 20:35*	*1*
DCB Decachlorobiphenyl	*80*		*60 - 125*	*07/12/11 09:19*	*07/23/11 20:35*	*1*

Surrogate Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1650-1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	TPH	TBP	PHL
Lab Sample ID	Client Sample ID	(45-105)	(35-105)	(35-100)	(30-125)	(35-125)	(40-100)
240-1650-7	LL2SB-513M-0101-SO	61	70	56	77	62	75
240-1650-8	LL2SB-513M-0102-SO	59	65	57	75	59	69
240-1650-8 MS	LL2SB-513M-0102-SO	72	88	73	87	74	85
240-1650-8 MSD	LL2SB-513M-0102-SO	71	83	71	90	72	90
240-1650-9	LL2SB-513M-0103-SO	59	66	62	79	60	76
LCS 240-8076/15-A	Lab Control Sample	55	72	55	76	53	77
MB 240-8076/14-A	Method Blank	46	59	46	78	42	60

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
PHL = Phenol-d5 (Surr)

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(40-140)	(40-140)	(60-125)	(60-125)
240-1650-1	LL2SB-514M-0101-SO	82	75	87	85
240-1650-2	LL2SB-514M-0102-SO	77	71	89	79
240-1650-3	LL2SB-514M-0103-SO	78	73	82	72
240-1650-4	LL2SB-515M-0101-SO	95	89	90	95
240-1650-5	LL2SB-515M-0102-SO	76	82	168 Q	176 Q
240-1650-6	LL2SB-515M-0103-SO	68	74	67	79
240-1650-7	LL2SB-513M-0101-SO	76	84	114	82
240-1650-8	LL2SB-513M-0102-SO	71	71	84	85
240-1650-9	LL2SB-513M-0103-SO	72	75	74	80
240-1650-9 MS	LL2SB-513M-0103-SO	78	75	77	81
240-1650-9 MSD	LL2SB-513M-0103-SO	75	72	77	81
LCS 240-8031/20-A	Lab Control Sample	93	88	101	110
MB 240-8031/19-A	Method Blank	82	81	91	102

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-8076/14-A
Matrix: Solid
Analysis Batch: 10353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8076

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Anthracene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Benzo[a]anthracene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Benzo[a]pyrene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Benzo[b]fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Benzo[g,h,i]perylene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Benzo[k]fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Chrysene	3.3	U	6.7	1.1	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Fluorene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Indeno[1,2,3-cd]pyrene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Pyrene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1
Phenanthrene	3.3	U	6.7	3.3	ug/Kg		07/12/11 10:53	07/31/11 11:30	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*46*		*45 - 105*	*07/12/11 10:53*	*07/31/11 11:30*	*1*
2-Fluorophenol (Surr)	*59*		*35 - 105*	*07/12/11 10:53*	*07/31/11 11:30*	*1*
Nitrobenzene-d5 (Surr)	*46*		*35 - 100*	*07/12/11 10:53*	*07/31/11 11:30*	*1*
Terphenyl-d14 (Surr)	*78*		*30 - 125*	*07/12/11 10:53*	*07/31/11 11:30*	*1*
2,4,6-Tribromophenol (Surr)	*42*		*35 - 125*	*07/12/11 10:53*	*07/31/11 11:30*	*1*
Phenol-d5 (Surr)	*60*		*40 - 100*	*07/12/11 10:53*	*07/31/11 11:30*	*1*

Lab Sample ID: LCS 240-8076/15-A
Matrix: Solid
Analysis Batch: 10353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8076

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	667	388		ug/Kg		58	45 - 110
Acenaphthylene	667	403		ug/Kg		60	45 - 105
Anthracene	667	441		ug/Kg		66	55 - 105
Benzo[a]anthracene	667	435		ug/Kg		65	50 - 110
Benzo[a]pyrene	667	419		ug/Kg		63	50 - 110
Benzo[b]fluoranthene	667	406		ug/Kg		61	45 - 115
Benzo[g,h,i]perylene	667	497		ug/Kg		74	40 - 125
Benzo[k]fluoranthene	667	507		ug/Kg		76	45 - 125
Chrysene	667	447		ug/Kg		67	55 - 110
Dibenz(a,h)anthracene	667	493		ug/Kg		74	40 - 125
Fluoranthene	667	468		ug/Kg		70	55 - 115
Fluorene	667	404		ug/Kg		61	50 - 110
Indeno[1,2,3-cd]pyrene	667	498		ug/Kg		75	40 - 120
Naphthalene	667	373		ug/Kg		56	40 - 105
Pyrene	667	447		ug/Kg		67	45 - 125
Phenanthrene	667	434		ug/Kg		65	50 - 110

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*55*		*45 - 105*

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-8076/15-A
Matrix: Solid
Analysis Batch: 10353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8076

Surrogate	LCS % Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	72		35 - 105
Nitrobenzene-d5 (Surr)	55		35 - 100
Terphenyl-d14 (Surr)	76		30 - 125
2,4,6-Tribromophenol (Surr)	53		35 - 125
Phenol-d5 (Surr)	77		40 - 100

Lab Sample ID: 240-1650-8 MS
Matrix: Solid
Analysis Batch: 10353

Client Sample ID: LL2SB-513M-0102-SO
Prep Type: Total/NA
Prep Batch: 8076

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	17	U	681	528	D	ug/Kg	☼	77	45 - 110
Acenaphthylene	17	U	681	504	D	ug/Kg	☼	74	45 - 105
Anthracene	17	U	681	521	D	ug/Kg	☼	76	55 - 105
Benzo[a]anthracene	17	U	681	484	D	ug/Kg	☼	71	50 - 110
Benzo[a]pyrene	17	U	681	439	D	ug/Kg	☼	64	50 - 110
Benzo[b]fluoranthene	17	U	681	463	D	ug/Kg	☼	68	45 - 115
Benzo[g,h,i]perylene	17	U	681	562	D	ug/Kg	☼	82	40 - 125
Benzo[k]fluoranthene	17	U	681	586	D	ug/Kg	☼	86	45 - 125
Chrysene	17	U	681	535	D	ug/Kg	☼	78	55 - 110
Dibenz(a,h)anthracene	17	U J	681	65.4	D J	ug/Kg	☼	10	40 - 125
Fluoranthene	17	U	681	569	D	ug/Kg	☼	83	55 - 115
Fluorene	17	U	681	565	D	ug/Kg	☼	83	50 - 110
Indeno[1,2,3-cd]pyrene	17	U	681	416	D	ug/Kg	☼	61	40 - 120
Naphthalene	17	U	681	507	D	ug/Kg	☼	74	40 - 105
Pyrene	17	U	681	552	D	ug/Kg	☼	81	45 - 125
Phenanthrene	17	U	681	559	D	ug/Kg	☼	82	50 - 110

Surrogate	MS % Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	72		45 - 105
2-Fluorophenol (Surr)	88		35 - 105
Nitrobenzene-d5 (Surr)	73		35 - 100
Terphenyl-d14 (Surr)	87		30 - 125
2,4,6-Tribromophenol (Surr)	74		35 - 125
Phenol-d5 (Surr)	85		40 - 100

Lab Sample ID: 240-1650-8 MSD
Matrix: Solid
Analysis Batch: 10353

Client Sample ID: LL2SB-513M-0102-SO
Prep Type: Total/NA
Prep Batch: 8076

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	17	U	681	555	D	ug/Kg	☼	81	45 - 110	5	30
Acenaphthylene	17	U	681	528	D	ug/Kg	☼	77	45 - 105	5	30
Anthracene	17	U	681	545	D	ug/Kg	☼	80	55 - 105	4	30
Benzo[a]anthracene	17	U	681	500	D	ug/Kg	☼	73	50 - 110	3	30
Benzo[a]pyrene	17	U	681	480	D	ug/Kg	☼	70	50 - 110	9	30
Benzo[b]fluoranthene	17	U	681	524	D	ug/Kg	☼	77	45 - 115	12	30
Benzo[g,h,i]perylene	17	U	681	569	D	ug/Kg	☼	83	40 - 125	1	30
Benzo[k]fluoranthene	17	U	681	565	D	ug/Kg	☼	83	45 - 125	4	30

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-1650-8 MSD
Matrix: Solid
Analysis Batch: 10353

Client Sample ID: LL2SB-513M-0102-SO
Prep Type: Total/NA
Prep Batch: 8076

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chrysene	17	U	681	548	D	ug/Kg	☼	80	55 - 110	2	30
Dibenz(a,h)anthracene	17	U J	681	160	D J	ug/Kg	☼	23	40 - 125	84	30
Fluoranthene	17	U	681	603	D	ug/Kg	☼	88	55 - 115	6	30
Fluorene	17	U	681	555	D	ug/Kg	☼	81	50 - 110	2	30
Indeno[1,2,3-cd]pyrene	17	U	681	473	D	ug/Kg	☼	69	40 - 120	13	30
Naphthalene	17	U	681	511	D	ug/Kg	☼	75	40 - 105	1	30
Pyrene	17	U	681	558	D	ug/Kg	☼	82	45 - 125	1	30
Phenanthrene	17	U	681	548	D	ug/Kg	☼	80	50 - 110	2	30

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*71*		*45 - 105*
2-Fluorophenol (Surr)	*83*		*35 - 105*
Nitrobenzene-d5 (Surr)	*71*		*35 - 100*
Terphenyl-d14 (Surr)	*90*		*30 - 125*
2,4,6-Tribromophenol (Surr)	*72*		*35 - 125*
Phenol-d5 (Surr)	*90*		*40 - 100*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-8031/19-A
Matrix: Solid
Analysis Batch: 9463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8031

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	65	21	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1016	25	U	65	21	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1221	25	U	50	16	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1221	25	U	50	16	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1232	25	U	45	14	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1232	25	U	45	14	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1242	25	U	40	13	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1242	25	U	40	13	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1248	25	U	55	17	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1248	25	U	55	17	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1254	25	U	55	17	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1254	25	U	55	17	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1260	25	U	55	17	ug/Kg		07/12/11 09:19	07/23/11 21:19	1
Aroclor 1260	25	U	55	17	ug/Kg		07/12/11 09:19	07/23/11 21:19	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*40 - 140*	*07/12/11 09:19*	*07/23/11 21:19*	*1*
Tetrachloro-m-xylene	*81*		*40 - 140*	*07/12/11 09:19*	*07/23/11 21:19*	*1*
DCB Decachlorobiphenyl	*91*		*60 - 125*	*07/12/11 09:19*	*07/23/11 21:19*	*1*
DCB Decachlorobiphenyl	*102*		*60 - 125*	*07/12/11 09:19*	*07/23/11 21:19*	*1*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-8031/20-A
Matrix: Solid
Analysis Batch: 9463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aroclor 1016	333	305		ug/Kg		91	40 - 140
Aroclor 1016	333	315		ug/Kg		94	40 - 140
Aroclor 1260	333	318		ug/Kg		95	60 - 130
Aroclor 1260	333	326		ug/Kg		98	60 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*93*		*40 - 140*
Tetrachloro-m-xylene	*88*		*40 - 140*
DCB Decachlorobiphenyl	*101*		*60 - 125*
DCB Decachlorobiphenyl	*110*		*60 - 125*

Lab Sample ID: 240-1650-9 MS
Matrix: Solid
Analysis Batch: 9463

Client Sample ID: LL2SB-513M-0103-SO
Prep Type: Total/NA
Prep Batch: 8031

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Aroclor 1016	25	U	338	294		ug/Kg	☼	87	40 - 140
Aroclor 1016	25	U	338	275		ug/Kg	☼	81	40 - 140
Aroclor 1260	25	U	338	268		ug/Kg	☼	79	60 - 130
Aroclor 1260	25	U	338	272		ug/Kg	☼	80	60 - 130

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*78*		*40 - 140*
Tetrachloro-m-xylene	*75*		*40 - 140*
DCB Decachlorobiphenyl	*77*		*60 - 125*
DCB Decachlorobiphenyl	*81*		*60 - 125*

Lab Sample ID: 240-1650-9 MSD
Matrix: Solid
Analysis Batch: 9463

Client Sample ID: LL2SB-513M-0103-SO
Prep Type: Total/NA
Prep Batch: 8031

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Aroclor 1016	25	U	340	286		ug/Kg	☼	84	40 - 140	3	30
Aroclor 1016	25	U	340	270		ug/Kg	☼	79	40 - 140	2	30
Aroclor 1260	25	U	340	277		ug/Kg	☼	82	60 - 130	4	30
Aroclor 1260	25	U	340	287		ug/Kg	☼	84	60 - 130	6	30

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*40 - 140*
Tetrachloro-m-xylene	*72*		*40 - 140*
DCB Decachlorobiphenyl	*77*		*60 - 125*
DCB Decachlorobiphenyl	*81*		*60 - 125*

GC/MS Semi VOA

Leach Batch: 7731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1650-7	LL2SB-513M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1650-8	LL2SB-513M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1650-8 MS	LL2SB-513M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1650-8 MSD	LL2SB-513M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1650-9	LL2SB-513M-0103-SO	Total/NA	Solid	Increm, Prep	

Prep Batch: 8076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1650-7	LL2SB-513M-0101-SO	Total/NA	Solid	3540C	7731
240-1650-8	LL2SB-513M-0102-SO	Total/NA	Solid	3540C	7731
240-1650-8 MS	LL2SB-513M-0102-SO	Total/NA	Solid	3540C	7731
240-1650-8 MSD	LL2SB-513M-0102-SO	Total/NA	Solid	3540C	7731
240-1650-9	LL2SB-513M-0103-SO	Total/NA	Solid	3540C	7731
MB 240-8076/14-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-8076/15-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 10353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-8076/14-A	Method Blank	Total/NA	Solid	8270C/DoD	8076
LCS 240-8076/15-A	Lab Control Sample	Total/NA	Solid	8270C/DoD	8076
240-1650-7	LL2SB-513M-0101-SO	Total/NA	Solid	8270C/DoD	8076
240-1650-9	LL2SB-513M-0103-SO	Total/NA	Solid	8270C/DoD	8076
240-1650-8	LL2SB-513M-0102-SO	Total/NA	Solid	8270C/DoD	8076
240-1650-8 MS	LL2SB-513M-0102-SO	Total/NA	Solid	8270C/DoD	8076
240-1650-8 MSD	LL2SB-513M-0102-SO	Total/NA	Solid	8270C/DoD	8076

GC Semi VOA

Leach Batch: 7731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1650-1	LL2SB-514M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1650-2	LL2SB-514M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1650-3	LL2SB-514M-0103-SO	Total/NA	Solid	Increm, Prep	
240-1650-4	LL2SB-515M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1650-5	LL2SB-515M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1650-6	LL2SB-515M-0103-SO	Total/NA	Solid	Increm, Prep	
240-1650-7	LL2SB-513M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1650-8	LL2SB-513M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1650-9	LL2SB-513M-0103-SO	Total/NA	Solid	Increm, Prep	
240-1650-9 MS	LL2SB-513M-0103-SO	Total/NA	Solid	Increm, Prep	
240-1650-9 MSD	LL2SB-513M-0103-SO	Total/NA	Solid	Increm, Prep	

Prep Batch: 8031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1650-1	LL2SB-514M-0101-SO	Total/NA	Solid	3540C	7731
240-1650-2	LL2SB-514M-0102-SO	Total/NA	Solid	3540C	7731
240-1650-3	LL2SB-514M-0103-SO	Total/NA	Solid	3540C	7731
240-1650-4	LL2SB-515M-0101-SO	Total/NA	Solid	3540C	7731
240-1650-5	LL2SB-515M-0102-SO	Total/NA	Solid	3540C	7731
240-1650-6	LL2SB-515M-0103-SO	Total/NA	Solid	3540C	7731
240-1650-7	LL2SB-513M-0101-SO	Total/NA	Solid	3540C	7731
240-1650-8	LL2SB-513M-0102-SO	Total/NA	Solid	3540C	7731

GC Semi VOA (Continued)

Prep Batch: 8031 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1650-9	LL2SB-513M-0103-SO	Total/NA	Solid	3540C	7731
240-1650-9 MS	LL2SB-513M-0103-SO	Total/NA	Solid	3540C	7731
240-1650-9 MSD	LL2SB-513M-0103-SO	Total/NA	Solid	3540C	7731
MB 240-8031/19-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-8031/20-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 8466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1650-1	LL2SB-514M-0101-SO	Total/NA	Solid	8082/DOD	8031
240-1650-2	LL2SB-514M-0102-SO	Total/NA	Solid	8082/DOD	8031
240-1650-3	LL2SB-514M-0103-SO	Total/NA	Solid	8082/DOD	8031
240-1650-4	LL2SB-515M-0101-SO	Total/NA	Solid	8082/DOD	8031
240-1650-7	LL2SB-513M-0101-SO	Total/NA	Solid	8082/DOD	8031

Analysis Batch: 9102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1650-5	LL2SB-515M-0102-SO	Total/NA	Solid	8082/DOD	8031

Analysis Batch: 9463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1650-6	LL2SB-515M-0103-SO	Total/NA	Solid	8082/DOD	8031
240-1650-8	LL2SB-513M-0102-SO	Total/NA	Solid	8082/DOD	8031
240-1650-9	LL2SB-513M-0103-SO	Total/NA	Solid	8082/DOD	8031
240-1650-9 MS	LL2SB-513M-0103-SO	Total/NA	Solid	8082/DOD	8031
240-1650-9 MSD	LL2SB-513M-0103-SO	Total/NA	Solid	8082/DOD	8031
MB 240-8031/19-A	Method Blank	Total/NA	Solid	8082/DOD	8031
LCS 240-8031/20-A	Lab Control Sample	Total/NA	Solid	8082/DOD	8031

General Chemistry

Analysis Batch: 7950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1650-1 DU	LL2SB-514M-0101-SO	Total/NA	Solid	Moisture	
240-1650-1	LL2SB-514M-0101-SO	Total/NA	Solid	Moisture	
240-1650-2	LL2SB-514M-0102-SO	Total/NA	Solid	Moisture	
240-1650-3	LL2SB-514M-0103-SO	Total/NA	Solid	Moisture	
240-1650-4	LL2SB-515M-0101-SO	Total/NA	Solid	Moisture	
240-1650-5	LL2SB-515M-0102-SO	Total/NA	Solid	Moisture	
240-1650-6	LL2SB-515M-0103-SO	Total/NA	Solid	Moisture	
240-1650-7	LL2SB-513M-0101-SO	Total/NA	Solid	Moisture	
240-1650-8	LL2SB-513M-0102-SO	Total/NA	Solid	Moisture	
240-1650-9 DU	LL2SB-513M-0103-SO	Total/NA	Solid	Moisture	
240-1650-9	LL2SB-513M-0103-SO	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1650-1

Client Sample ID: LL2SB-514M-0101-SO
Lab Sample ID: 240-1650-1

Date Collected: 07/01/11 09:45
Matrix: Solid
Date Received: 07/01/11 15:00
Percent Solids: 98.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7731	07/08/11 13:34	DJ	TAL NC
Total/NA	Prep	3540C			8031	07/12/11 09:19	SM	TAL NC
Total/NA	Analysis	8082/DOD		1	8466	07/14/11 19:15	CR	TAL NC
Total/NA	Analysis	Moisture		1	7950	07/11/11 15:16	CN	TAL NC

Client Sample ID: LL2SB-514M-0102-SO
Lab Sample ID: 240-1650-2

Date Collected: 07/01/11 09:45
Matrix: Solid
Date Received: 07/01/11 15:00
Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7731	07/08/11 13:34	DJ	TAL NC
Total/NA	Prep	3540C			8031	07/12/11 09:19	SM	TAL NC
Total/NA	Analysis	8082/DOD		1	8466	07/14/11 19:44	CR	TAL NC
Total/NA	Analysis	Moisture		1	7950	07/11/11 15:16	CN	TAL NC

Client Sample ID: LL2SB-514M-0103-SO
Lab Sample ID: 240-1650-3

Date Collected: 07/01/11 09:45
Matrix: Solid
Date Received: 07/01/11 15:00
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7731	07/08/11 13:34	DJ	TAL NC
Total/NA	Prep	3540C			8031	07/12/11 09:19	SM	TAL NC
Total/NA	Analysis	8082/DOD		1	8466	07/14/11 19:59	CR	TAL NC
Total/NA	Analysis	Moisture		1	7950	07/11/11 15:16	CN	TAL NC

Client Sample ID: LL2SB-515M-0101-SO
Lab Sample ID: 240-1650-4

Date Collected: 07/01/11 10:50
Matrix: Solid
Date Received: 07/01/11 15:00
Percent Solids: 98.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7731	07/08/11 13:34	DJ	TAL NC
Total/NA	Prep	3540C			8031	07/12/11 09:19	SM	TAL NC
Total/NA	Analysis	8082/DOD		1	8466	07/14/11 20:13	CR	TAL NC
Total/NA	Analysis	Moisture		1	7950	07/11/11 15:16	CN	TAL NC

Client Sample ID: LL2SB-515M-0102-SO
Lab Sample ID: 240-1650-5

Date Collected: 07/01/11 10:50
Matrix: Solid
Date Received: 07/01/11 15:00
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7731	07/08/11 13:34	DJ	TAL NC
Total/NA	Prep	3540C			8031	07/12/11 09:19	SM	TAL NC
Total/NA	Analysis	8082/DOD		2	9102	07/21/11 03:07	LH	TAL NC
Total/NA	Analysis	Moisture		1	7950	07/11/11 15:16	CN	TAL NC

Lab Chronicle

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1650-1

Client Sample ID: LL2SB-515M-0103-SO

Lab Sample ID: 240-1650-6

Date Collected: 07/01/11 10:50
Matrix: Solid
Date Received: 07/01/11 15:00
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7731	07/08/11 13:34	DJ	TAL NC
Total/NA	Prep	3540C			8031	07/12/11 09:19	SM	TAL NC
Total/NA	Analysis	8082/DOD		1	9463	07/23/11 20:06	LH	TAL NC
Total/NA	Analysis	Moisture		1	7950	07/11/11 15:16	CN	TAL NC

Client Sample ID: LL2SB-513M-0101-SO

Lab Sample ID: 240-1650-7

Date Collected: 07/01/11 13:18
Matrix: Solid
Date Received: 07/01/11 15:00
Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7731	07/08/11 13:34	DJ	TAL NC
Total/NA	Prep	3540C			8076	07/12/11 10:53	AK	TAL NC
Total/NA	Analysis	8270C/DoD		4	10353	07/31/11 17:28	MU	TAL NC
Total/NA	Leach	Increm, Prep			7731	07/08/11 13:34	DJ	TAL NC
Total/NA	Prep	3540C			8031	07/12/11 09:19	SM	TAL NC
Total/NA	Analysis	8082/DOD		1	8466	07/14/11 20:57	CR	TAL NC
Total/NA	Analysis	Moisture		1	7950	07/11/11 15:52	CN	TAL NC

Client Sample ID: LL2SB-513M-0102-SO

Lab Sample ID: 240-1650-8

Date Collected: 07/01/11 13:18
Matrix: Solid
Date Received: 07/01/11 15:00
Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7731	07/08/11 13:34	DJ	TAL NC
Total/NA	Prep	3540C			8076	07/12/11 10:53	AK	TAL NC
Total/NA	Analysis	8270C/DoD		5	10353	07/31/11 18:05	MU	TAL NC
Total/NA	Leach	Increm, Prep			7731	07/08/11 13:34	DJ	TAL NC
Total/NA	Prep	3540C			8031	07/12/11 09:19	SM	TAL NC
Total/NA	Analysis	8082/DOD		1	9463	07/23/11 20:21	LH	TAL NC
Total/NA	Analysis	Moisture		1	7950	07/11/11 15:52	CN	TAL NC

Client Sample ID: LL2SB-513M-0103-SO

Lab Sample ID: 240-1650-9

Date Collected: 07/01/11 13:18
Matrix: Solid
Date Received: 07/01/11 15:00
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7731	07/08/11 13:34	DJ	TAL NC
Total/NA	Prep	3540C			8076	07/12/11 10:53	AK	TAL NC
Total/NA	Analysis	8270C/DoD		10	10353	07/31/11 17:46	MU	TAL NC
Total/NA	Leach	Increm, Prep			7731	07/08/11 13:34	DJ	TAL NC
Total/NA	Prep	3540C			8031	07/12/11 09:19	SM	TAL NC
Total/NA	Analysis	8082/DOD		1	9463	07/23/11 20:35	LH	TAL NC
Total/NA	Analysis	Moisture		1	7950	07/11/11 15:52	CN	TAL NC

Lab Chronicle

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1650-1

Laboratory References:
TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1650-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica North Canton	ACLASS	DoD ELAP		ADE-1437
TestAmerica North Canton	California	NELAC	9	01144CA
TestAmerica North Canton	Connecticut	State Program	1	PH-0590
TestAmerica North Canton	Florida	NELAC	4	E87225
TestAmerica North Canton	Georgia	Georgia EPD	4	N/A
TestAmerica North Canton	Illinois	NELAC	5	200004
TestAmerica North Canton	Kansas	NELAC	7	E-10336
TestAmerica North Canton	Kentucky	State Program	4	58
TestAmerica North Canton	Minnesota	NELAC	5	039-999-348
TestAmerica North Canton	Nevada	State Program	9	OH-000482008A
TestAmerica North Canton	New Jersey	NELAC	2	OH001
TestAmerica North Canton	New York	NELAC	2	10975
TestAmerica North Canton	Ohio	OVAP	5	CL0024
TestAmerica North Canton	Pennsylvania	NELAC	3	68-00340
TestAmerica North Canton	USDA	USDA		P330-08-00123
TestAmerica North Canton	West Virginia	West Virginia DEP	3	210
TestAmerica North Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: NORTH CANTON
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

Client Contact	Client Project Manager:	Site Contact:	Lab Contact:	COC No:
Company Name: PRUDENT TECHNOLOGIES	JOHN JENT	SAMP	MARK LOEB	014242
Address: 4242 MEDICAL DR SUITE 5250	Telephone: 502 439-8005	Telephone:	Telephone: 330 966-9357	1 of 1 COCs
City/State/Zip: SAN ANTONIO, TX 78229	Email: JJente prudentweb.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: 210 822-9588		TAT if different from below ____		Walk-in client ☐
Project Name: LL 1-4,12	Method of Shipment/Carrier:	☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Lab pickup ☐
Project Number: W912QR-10-P-0037	Shipping/Tracking No:			Lab sampling ☐
PO#				Job/SDG No:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite C/ Grab G	8270-LL (PAH)	8081 PCBs	Sample Specific Notes / Special Instructions:
~~LL25HH~~ LL25B-514M-0101-SO	7-1-2011	0945				X											X		
LL25B-514M-0102-SO	7-1-2011	0945				X											X		
LL25B-514M-0103-SO	7-1-2011	0945				X											X		
LL25B-515M-0101-SO	7-1-2011	1050				X											X		
LL25B-515M-0102-SO	7-1-2011	1050				X											X		
LL25B-515M-0103-SO	7-1-2011	1050				X											X		
LL25B-513M-0101-SO	7-1-2011	1118				X											X	X	
LL25B-513M-0102-SO	7-1-2011	1118				X											X	X	
LL25B-513M-0103-SO	7-1-2011	1118				X											X	X	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Prudent	7-1-2011 1500			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TAL	7/1/11 1500

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TAL 0018- 1 (04/10)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 1650
North Canton Facility

Client Prudent Project LLS 1-4, 12 By [signature] (Signature)
Cooler Received on 7/1/11 Opened on 7/1/11
FedEx ☐ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☒ TestAmerica Courier ☐ Other ____
TestAmerica Cooler # ____ Multiple Coolers ☐ Foam Box ☐ Client Cooler ☒ Other ____

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒
   If YES, Quantity ____ Quantity Unsalvageable ____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☒
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? ____
2. Shippers' packing slip attached to the cooler(s)? Yes ☐ No ☒
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☐ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☐ Foam ☐ None ☒ Other ____
6. Cooler temperature upon receipt 2.2 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐ ____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM ____ Date ____ by ____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning ____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.
Sample(s) ____ were received in a broken container.
Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)? ____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Login Sample Receipt Checklist

Client: Prudent Technologies, Inc

Job Number: 240-1650-1

Login Number: 1650

List Source: TestAmerica North Canton

List Number: 1

Creator: McFadden, John

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica North Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-1653-1
Client Project/Site: RVAAP

For:
Prudent Technologies, Inc
4242 Medical Drive
Suite 7250
San Antonio, Texas 78229

Attn: Ms. Amanda L. Miller

Authorized for release by:
09/22/2011 02:14:31 PM

Mark Loeb
Project Manager II
mark.loeb@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
Q	One or more quality control criteria failed.
M	Manual integrated compound.
J	Estimated: The analyte was positively identified; the quantitation is an estimation

GC Semi VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
Q	One or more quality control criteria failed.

Metals

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
B	Blank contamination: The analyte was detected above one-half the reporting limit in an associated blank.
D	The reported value is from a dilution.

General Chemistry

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-1653-1

Laboratory: TestAmerica North Canton

Narrative

CASE NARRATIVE

Client: Prudent Technologies, Inc

Project: RVAAP

Report Number: 240-1653-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

TestAmerica utilizes USEPA approved methods and DOD QSM, where applicable, in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters for which TestAmerica North Canton has certification were evaluated to the limit of detection (LOD) and include qualified results where applicable. Parameters not certified under QSM, if any, were evaluated to the detection limit (DL) and include qualified results where applicable.

The sample(s) that contain constituents flagged with U are undetected. The result associated with this flag is the limit of detection (LOD).

RECEIPT

The samples were received on 07/01/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 3.8 C.

The Chain of Custody was received without listing a date or a time of sample collection. Per bottles it is 7/1/11 @ 1300.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample EQUIP RINSATE 1 (240-1653-1) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were analyzed on 08/05/2011.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Job ID: 240-1653-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

Bis(2-ethylhexyl) phthalate was detected in method blank MB 240-7492/3-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Benzo[a]pyrene failed the recovery criteria low for LCS 240-7492/4-A. Refer to the QC report for details.

No other difficulties were encountered during the SVOC analysis. All other quality control parameters were within the acceptance limits.

CHLORINATED PESTICIDES

Sample EQUIP RINSATE 1 (240-1653-1) was analyzed for chlorinated pesticides in accordance with EPA SW-846 Method 8081A DoD. The samples were analyzed on 07/30/2011.

The closing continuing calibration verification (CCV) recovered DDE above the upper control limit. The sampleEQUIP RINSATE 1 associated with this CCV was not detected above the reporting limit for DDE; therefore the data have been reported.

Insufficient sample volume was provided to perform matrix spike/matrix spike duplicate (MS/MSD) for batch 7260.

No other difficulties were encountered during the pesticides analysis. All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample EQUIP RINSATE 1 (240-1653-1) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082 DOD. The samples were analyzed on 07/15/2011.

Insufficient sample volume was available to perform matrix spike/matrix spike duplicate (MS/MSD) for batches 7262 and 7692 .

No other difficulties were encountered during the PCBs analysis. All quality control parameters were within the acceptance limits.

TOTAL RECOVERABLE METALS (ICPMS)

Sample EQUIP RINSATE 1 (240-1653-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020 DoD. The samples were analyzed on 08/29/2011.

ICB, CCB, and ICSA samples are evaluated using the lowest LOD and DL criteria in LIMS. Using this criteria, an individual element may occasionally be flagged as out of control. If the element has a higher LOD or DL, the data is evaluated to the higher limit and determined to be acceptable.

Zinc was detected in method blank MB 240-10075/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the metals analysis. All other quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM

Sample EQUIP RINSATE 1 (240-1653-1) was analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were analyzed on 07/02/2011.

No difficulties were encountered during the hexavalent chromium analysis. All quality control parameters were within the acceptance limits.

TOTAL MERCURY - DOD

Sample EQUIP RINSATE 1 (240-1653-1) was analyzed for Total Mercury - DOD in accordance with EPA SW-846 Method 7470A. The samples were analyzed on 07/08/2011.

No difficulties were encountered during the mercury analysis. All quality control parameters were within the acceptance limits.

Method Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1653-1

Method	Method Description	Protocol	Laboratory
8270C/DoD	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NC
8081/DOD	Organochlorine Pesticides (GC)	SW846	TAL NC
8082/DOD	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL NC
8330 (Modified)	Organic Compounds by UV/HPLC	SW846	TAL WSC
8330/8330A	Nitroaromatics & Nitramines: Explosives (8330/A)	SW846	TAL WSC
6020/DOD	Metals (ICP/MS)	SW846	TAL NC
7470A/DOD	Mercury (CVAA)	SW846	TAL NC
7196A	Chromium, Hexavalent	SW846	TAL NC
WS-WC-0050	Nitrocellulose as N by WS-WC-0050	TAL-SOP	TAL WSC

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-SOP = TAL-SOP

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1653-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-1653-1	EQUIP RINSATE 1	Water	07/01/11 13:00	07/01/11 15:00

Detection Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1653-1

Client Sample ID: EQUIP RINSATE 1

Lab Sample ID: 240-1653-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.041	J	1.0	0.030	ug/L	1		6020/DOD	Total Recovera
Nickel	2.2	J	5.0	0.62	ug/L	1		6020/DOD	Total Recovera
Sodium	260	J	1000	160	ug/L	1		6020/DOD	Total Recovera
Zinc	13	J B	40	8.8	ug/L	1		6020/DOD	Total Recovera

Client Sample ID: EQUIP RINSATE 1

Date Collected: 07/01/11 13:00
Date Received: 07/01/11 15:00

Lab Sample ID: 240-1653-1

Matrix: Water

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.11	U	0.23	0.11	ug/L		07/07/11 10:27	08/05/11 16:07	1
Acenaphthylene	0.11	U	0.23	0.11	ug/L		07/07/11 10:27	08/05/11 16:07	1
Anthracene	0.11	U	0.23	0.11	ug/L		07/07/11 10:27	08/05/11 16:07	1
Benzo[a]anthracene	0.11	U	0.23	0.11	ug/L		07/07/11 10:27	08/05/11 16:07	1
Benzoic acid	11	U	28	11	ug/L		07/07/11 10:27	08/05/11 16:07	1
Benzo[b]fluoranthene	0.11	U	0.23	0.11	ug/L		07/07/11 10:27	08/05/11 16:07	1
Benzo[k]fluoranthene	0.11	U	0.23	0.11	ug/L		07/07/11 10:27	08/05/11 16:07	1
Benzyl alcohol	0.91	U	5.7	0.43	ug/L		07/07/11 10:27	08/05/11 16:07	1
Bis(2-chloroethoxy)methane	0.91	U	1.1	0.36	ug/L		07/07/11 10:27	08/05/11 16:07	1
Bis(2-chloroethyl)ether	0.11	U	1.1	0.11	ug/L		07/07/11 10:27	08/05/11 16:07	1
4-Bromophenyl phenyl ether	0.91	U	2.3	0.91	ug/L		07/07/11 10:27	08/05/11 16:07	1
Butyl benzyl phthalate	0.91	U	1.1	0.91	ug/L		07/07/11 10:27	08/05/11 16:07	1
2,4-Dimethylphenol	0.91	U	2.3	0.91	ug/L		07/07/11 10:27	08/05/11 16:07	1
Dimethyl phthalate	0.91	U	1.1	0.33	ug/L		07/07/11 10:27	08/05/11 16:07	1
4,6-Dinitro-2-methylphenol	2.7	U	5.7	2.7	ug/L		07/07/11 10:27	08/05/11 16:07	1
2,4-Dinitrophenol	2.7	U	5.7	2.7	ug/L		07/07/11 10:27	08/05/11 16:07	1
2,4-Dinitrotoluene	0.91	U	5.7	0.31	ug/L		07/07/11 10:27	08/05/11 16:07	1
2,6-Dinitrotoluene	0.91	U	5.7	0.91	ug/L		07/07/11 10:27	08/05/11 16:07	1
Fluoranthene	0.11	U	0.23	0.11	ug/L		07/07/11 10:27	08/05/11 16:07	1
Fluorene	0.11	U	0.23	0.11	ug/L		07/07/11 10:27	08/05/11 16:07	1
Hexachlorobenzene	0.11	U	0.23	0.11	ug/L		07/07/11 10:27	08/05/11 16:07	1
Hexachlorobutadiene	0.91	U	1.1	0.31	ug/L		07/07/11 10:27	08/05/11 16:07	1
Hexachlorocyclopentadiene	0.91	U	11	0.91	ug/L		07/07/11 10:27	08/05/11 16:07	1
Hexachloroethane	0.91	U	1.1	0.91	ug/L		07/07/11 10:27	08/05/11 16:07	1
N-Nitrosodiphenylamine	0.91	U	1.1	0.35	ug/L		07/07/11 10:27	08/05/11 16:07	1
N-Nitrosodi-n-propylamine	0.91	U	1.1	0.91	ug/L		07/07/11 10:27	08/05/11 16:07	1
1,4-Dichlorobenzene	0.91	U	1.1	0.39	ug/L		07/07/11 10:27	08/05/11 16:07	1
2-Chloronaphthalene	0.11	U	1.1	0.11	ug/L		07/07/11 10:27	08/05/11 16:07	1
2-Chlorophenol	0.91	U	1.1	0.33	ug/L		07/07/11 10:27	08/05/11 16:07	1
4-Chlorophenyl phenyl ether	0.91	U	2.3	0.34	ug/L		07/07/11 10:27	08/05/11 16:07	1
Chrysene	0.11	U	0.23	0.11	ug/L		07/07/11 10:27	08/05/11 16:07	1
Dibenz(a,h)anthracene	0.11	U	0.23	0.11	ug/L		07/07/11 10:27	08/05/11 16:07	1
Dibenzofuran	0.11	U	1.1	0.11	ug/L		07/07/11 10:27	08/05/11 16:07	1
Benzo[g,h,i]perylene	0.11	U	0.23	0.11	ug/L		07/07/11 10:27	08/05/11 16:07	1
Benzo[a]pyrene	0.11	U Q	0.23	0.11	ug/L		07/07/11 10:27	08/05/11 16:07	1
Di-n-butyl phthalate	0.91	U	1.1	0.76	ug/L		07/07/11 10:27	08/05/11 16:07	1
1,2-Dichlorobenzene	0.91	U	1.1	0.33	ug/L		07/07/11 10:27	08/05/11 16:07	1
1,3-Dichlorobenzene	0.91	U	1.1	0.91	ug/L		07/07/11 10:27	08/05/11 16:07	1
3,3'-Dichlorobenzidine	0.91	U	5.7	0.42	ug/L		07/07/11 10:27	08/05/11 16:07	1
2,4-Dichlorophenol	0.91	U	2.3	0.91	ug/L		07/07/11 10:27	08/05/11 16:07	1
Diethyl phthalate	0.91	U	1.1	0.68	ug/L		07/07/11 10:27	08/05/11 16:07	1
Indeno[1,2,3-cd]pyrene	0.11	U	0.23	0.11	ug/L		07/07/11 10:27	08/05/11 16:07	1
Isophorone	0.91	U	1.1	0.31	ug/L		07/07/11 10:27	08/05/11 16:07	1
2-Methylnaphthalene	0.11	U	0.23	0.11	ug/L		07/07/11 10:27	08/05/11 16:07	1
2-Methylphenol	0.91	U	1.1	0.91	ug/L		07/07/11 10:27	08/05/11 16:07	1
Naphthalene	0.11	U	0.23	0.11	ug/L		07/07/11 10:27	08/05/11 16:07	1
2-Nitroaniline	0.91	U	2.3	0.91	ug/L		07/07/11 10:27	08/05/11 16:07	1
3-Nitroaniline	0.91	U	2.3	0.32	ug/L		07/07/11 10:27	08/05/11 16:07	1
4-Nitroaniline	0.91	U	2.3	0.91	ug/L		07/07/11 10:27	08/05/11 16:07	1
Nitrobenzene	0.11	U	1.1	0.045	ug/L		07/07/11 10:27	08/05/11 16:07	1

Client Sample ID: EQUIP RINSATE 1
Date Collected: 07/01/11 13:00
Date Received: 07/01/11 15:00

Lab Sample ID: 240-1653-1
Matrix: Water

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	0.91	U	2.3	0.32	ug/L		07/07/11 10:27	08/05/11 16:07	1
4-Nitrophenol	2.7	U	5.7	2.7	ug/L		07/07/11 10:27	08/05/11 16:07	1
Pyrene	0.11	U	0.23	0.11	ug/L		07/07/11 10:27	08/05/11 16:07	1
Pentachlorophenol	2.7	U	5.7	2.7	ug/L		07/07/11 10:27	08/05/11 16:07	1
Phenanthrene	0.11	U	0.23	0.11	ug/L		07/07/11 10:27	08/05/11 16:07	1
1,2,4-Trichlorobenzene	0.91	U	1.1	0.32	ug/L		07/07/11 10:27	08/05/11 16:07	1
2,4,5-Trichlorophenol	0.91	U	5.7	0.34	ug/L		07/07/11 10:27	08/05/11 16:07	1
2,4,6-Trichlorophenol	0.91	U	5.7	0.91	ug/L		07/07/11 10:27	08/05/11 16:07	1
Phenol	0.91	U	1.1	0.68	ug/L		07/07/11 10:27	08/05/11 16:07	1
Carbazole	0.91	U	1.1	0.32	ug/L		07/07/11 10:27	08/05/11 16:07	1
4-Chloroaniline	0.91	U	2.3	0.91	ug/L		07/07/11 10:27	08/05/11 16:07	1
3 & 4 Methylphenol	0.91	U	2.3	0.91	ug/L		07/07/11 10:27	08/05/11 16:07	1
Bis(2-ethylhexyl) phthalate	0.91	U	2.3	0.91	ug/L		07/07/11 10:27	08/05/11 16:07	1
Di-n-octyl phthalate	0.91	U	1.1	0.91	ug/L		07/07/11 10:27	08/05/11 16:07	1
4-Chloro-3-methylphenol	0.91	U	2.3	0.91	ug/L		07/07/11 10:27	08/05/11 16:07	1
bis (2-Chloroisopropyl) ether	0.91	U	1.1	0.45	ug/L		07/07/11 10:27	08/05/11 16:07	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*60*		*50 - 110*	*07/07/11 10:27*	*08/05/11 16:07*	*1*
2-Fluorophenol (Surr)	*69*		*20 - 110*	*07/07/11 10:27*	*08/05/11 16:07*	*1*
Nitrobenzene-d5 (Surr)	*64*		*40 - 110*	*07/07/11 10:27*	*08/05/11 16:07*	*1*
Terphenyl-d14 (Surr)	*74*		*50 - 135*	*07/07/11 10:27*	*08/05/11 16:07*	*1*
2,4,6-Tribromophenol (Surr)	*58*		*40 - 125*	*07/07/11 10:27*	*08/05/11 16:07*	*1*
Phenol-d5 (Surr)	*73*		*10 - 115*	*07/07/11 10:27*	*08/05/11 16:07*	*1*

Method: 8081/DOD - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0099	U	0.050	0.0095	ug/L		07/06/11 08:41	07/30/11 22:27	1
4,4'-DDE	0.0099	U	0.050	0.0096	ug/L		07/06/11 08:41	07/30/11 22:27	1
4,4'-DDT	0.030	U	0.050	0.016	ug/L		07/06/11 08:41	07/30/11 22:27	1
Aldrin	0.0099	U	0.050	0.0081	ug/L		07/06/11 08:41	07/30/11 22:27	1
alpha-BHC	0.0099	U	0.050	0.0069	ug/L		07/06/11 08:41	07/30/11 22:27	1
alpha-Chlordane	0.0099	U	0.050	0.014	ug/L		07/06/11 08:41	07/30/11 22:27	1
beta-BHC	0.0099	U	0.050	0.0083	ug/L		07/06/11 08:41	07/30/11 22:27	1
delta-BHC	0.0099	U	0.050	0.0086	ug/L		07/06/11 08:41	07/30/11 22:27	1
Dieldrin	0.0099	U	0.050	0.0074	ug/L		07/06/11 08:41	07/30/11 22:27	1
Endosulfan I	0.0099	U	0.050	0.013	ug/L		07/06/11 08:41	07/30/11 22:27	1
Endosulfan II	0.0099	U	0.050	0.012	ug/L		07/06/11 08:41	07/30/11 22:27	1
Endosulfan sulfate	0.0099	U	0.050	0.011	ug/L		07/06/11 08:41	07/30/11 22:27	1
Endrin	0.0099	U	0.050	0.011	ug/L		07/06/11 08:41	07/30/11 22:27	1
Endrin aldehyde	0.0099	U	0.050	0.011	ug/L		07/06/11 08:41	07/30/11 22:27	1
Endrin ketone	0.0099	U	0.050	0.0077	ug/L		07/06/11 08:41	07/30/11 22:27	1
gamma-BHC (Lindane)	0.0099	U	0.050	0.0063	ug/L		07/06/11 08:41	07/30/11 22:27	1
gamma-Chlordane	0.0099	U	0.050	0.012	ug/L		07/06/11 08:41	07/30/11 22:27	1
Heptachlor	0.0099	U	0.050	0.0079	ug/L		07/06/11 08:41	07/30/11 22:27	1
Heptachlor epoxide	0.0099	U	0.050	0.0070	ug/L		07/06/11 08:41	07/30/11 22:27	1
Methoxychlor	0.030	U	0.099	0.032	ug/L		07/06/11 08:41	07/30/11 22:27	1
Toxaphene	0.50	U	2.0	0.32	ug/L		07/06/11 08:41	07/30/11 22:27	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*50*		*30 - 135*	*07/06/11 08:41*	*07/30/11 22:27*	*1*

Client Sample ID: EQUIP RINSATE 1
Date Collected: 07/01/11 13:00
Date Received: 07/01/11 15:00

Lab Sample ID: 240-1653-1
Matrix: Water

Method: 8081/DOD - Organochlorine Pesticides (GC) (Continued)

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*49*		*30 - 135*	*07/06/11 08:41*	*07/30/11 22:27*	*1*
Tetrachloro-m-xylene	*109*		*25 - 140*	*07/06/11 08:41*	*07/30/11 22:27*	*1*
Tetrachloro-m-xylene	*88*		*25 - 140*	*07/06/11 08:41*	*07/30/11 22:27*	*1*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.21	U	0.53	0.18	ug/L		07/08/11 10:55	07/15/11 03:53	1
Aroclor 1221	0.21	U	0.53	0.14	ug/L		07/08/11 10:55	07/15/11 03:53	1
Aroclor 1232	0.21	U	0.53	0.17	ug/L		07/08/11 10:55	07/15/11 03:53	1
Aroclor 1242	0.42	U	0.53	0.23	ug/L		07/08/11 10:55	07/15/11 03:53	1
Aroclor 1248	0.21	U	0.53	0.11	ug/L		07/08/11 10:55	07/15/11 03:53	1
Aroclor 1254	0.21	U	0.53	0.17	ug/L		07/08/11 10:55	07/15/11 03:53	1
Aroclor 1260	0.21	U	0.53	0.18	ug/L		07/08/11 10:55	07/15/11 03:53	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*40 - 140*	*07/08/11 10:55*	*07/15/11 03:53*	*1*
DCB Decachlorobiphenyl	*45*		*40 - 135*	*07/08/11 10:55*	*07/15/11 03:53*	*1*

Method: 8330 (Modified) - Organic Compounds by UV/HPLC - Dissolved

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	6.0 U		20	2.4	ug/L		07/20/11 08:50	07/27/11 12:36	1

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroglycerin	0.50 U		0.66	0.33	ug/L		07/08/11 06:30	07/15/11 06:01	1.01
PETN	0.50 U		0.66	0.30	ug/L		07/08/11 06:30	07/15/11 06:01	1.01
2-Amino-4,6-dinitrotoluene	0.10 U		0.20	0.10	ug/L		07/08/11 06:30	07/15/11 06:01	1.01
4-Amino-2,6-dinitrotoluene	0.050 U		0.10	0.050	ug/L		07/08/11 06:30	07/15/11 06:01	1.01
1,3-Dinitrobenzene	0.050 U		0.10	0.050	ug/L		07/08/11 06:30	07/15/11 06:01	1.01
2,4-Dinitrotoluene	0.050 U		0.10	0.050	ug/L		07/08/11 06:30	07/15/11 06:01	1.01
2,6-Dinitrotoluene	0.050 U		0.10	0.050	ug/L		07/08/11 06:30	07/15/11 06:01	1.01
HMX	0.050 U		0.10	0.036	ug/L		07/08/11 06:30	07/15/11 06:01	1.01
Nitrobenzene	0.050 U		0.10	0.050	ug/L		07/08/11 06:30	07/15/11 06:01	1.01
2-Nitrotoluene	0.10 U		0.50	0.089	ug/L		07/08/11 06:30	07/15/11 06:01	1.01
3-Nitrotoluene	0.10 U		0.50	0.058	ug/L		07/08/11 06:30	07/15/11 06:01	1.01
4-Nitrotoluene	0.10 U		0.66	0.089	ug/L		07/08/11 06:30	07/15/11 06:01	1.01
RDX	0.050 U		0.10	0.036	ug/L		07/08/11 06:30	07/15/11 06:01	1.01
Tetryl	0.050 U		0.10	0.050	ug/L		07/08/11 06:30	07/15/11 06:01	1.01
1,3,5-Trinitrobenzene	0.050 U		0.10	0.030	ug/L		07/08/11 06:30	07/15/11 06:01	1.01
2,4,6-Trinitrotoluene	0.050 U		0.10	0.050	ug/L		07/08/11 06:30	07/15/11 06:01	1.01

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*91*		*79 - 111*	*07/08/11 06:30*	*07/15/11 06:01*	*1.01*

Method: 6020/DOD - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	60	U	60	20	ug/L		07/28/11 11:13	08/29/11 11:45	1
Antimony	0.50	U	2.0	0.21	ug/L		07/28/11 11:13	08/29/11 11:45	1
Arsenic	1.0	U	5.0	0.44	ug/L		07/28/11 11:13	08/29/11 11:45	1
Barium	4.0	U	5.0	1.6	ug/L		07/28/11 11:13	08/29/11 11:45	1
Beryllium	0.10	U	1.0	0.033	ug/L		07/28/11 11:13	08/29/11 11:45	1

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1653-1

Client Sample ID: EQUIP RINSATE 1
Date Collected: 07/01/11 13:00
Date Received: 07/01/11 15:00

Lab Sample ID: 240-1653-1
Matrix: Water

Method: 6020/DOD - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.070	U	2.0	0.023	ug/L		07/28/11 11:13	08/29/11 11:45	1
Calcium	1000	U	2000	540	ug/L		07/28/11 11:13	08/29/11 11:45	1
Chromium	1.5	U	2.0	0.53	ug/L		07/28/11 11:13	08/29/11 11:45	1
Cobalt	**0.041**	**J**	1.0	0.030	ug/L		07/28/11 11:13	08/29/11 11:45	1
Copper	4.0	U	4.0	1.4	ug/L		07/28/11 11:13	08/29/11 11:45	1
Iron	100	U	150	44	ug/L		07/28/11 11:13	08/29/11 11:45	1
Lead	0.50	U	1.0	0.20	ug/L		07/28/11 11:13	08/29/11 11:45	1
Magnesium	300	U	1000	120	ug/L		07/28/11 11:13	08/29/11 11:45	1
Manganese	3.0	U	5.0	1.1	ug/L		07/28/11 11:13	08/29/11 11:45	1
Nickel	**2.2**	**J**	5.0	0.62	ug/L		07/28/11 11:13	08/29/11 11:45	1
Potassium	50	U	1000	16	ug/L		07/28/11 11:13	08/29/11 11:45	1
Selenium	0.50	U	5.0	0.20	ug/L		07/28/11 11:13	08/29/11 11:45	1
Silver	0.25	U	1.0	0.080	ug/L		07/28/11 11:13	08/29/11 11:45	1
Sodium	**260**	**J**	1000	160	ug/L		07/28/11 11:13	08/29/11 11:45	1
Thallium	1.0	U	2.0	0.32	ug/L		07/28/11 11:13	08/29/11 11:45	1
Vanadium	1.5	U	5.0	0.51	ug/L		07/28/11 11:13	08/29/11 11:45	1
Zinc	**13**	**J B**	40	8.8	ug/L		07/28/11 11:13	08/29/11 11:45	1

Method: 7470A/DOD - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.20	U	0.20	0.12	ug/L		07/07/11 15:50	07/08/11 10:26	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	0.0040	U	0.020	0.0020	mg/L			07/02/11 10:09	1

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	1.0 U		2.0	0.48	mg/L		07/20/11 08:00	07/21/11 13:27	1

Surrogate Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1653-1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	TPH	TBP	PHL
Lab Sample ID	Client Sample ID	(50-110)	(20-110)	(40-110)	(50-135)	(40-125)	(10-115)
240-1653-1	EQUIP RINSATE 1	60	69	64	74	58	73
LCS 240-7492/4-A	Lab Control Sample	55	58	57	68	56	68
MB 240-7492/3-A	Method Blank	59	65	63	70	56	67

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
PHL = Phenol-d5 (Surr)

Method: 8081/DOD - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(30-135)	(30-135)	(25-140)	(25-140)
240-1653-1	EQUIP RINSATE 1	50	49	109	88
LCS 240-7260/3-A	Lab Control Sample	69	64	129	84
MB 240-7260/2-A	Method Blank	104	106	102	86

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(40-140)	(40-140)	(40-135)	(40-135)
240-1653-1	EQUIP RINSATE 1	70		45	
LCS 240-7692/5-A	Lab Control Sample	67	68	40	34 Q
MB 240-7692/4-A	Method Blank	46	48	47	44

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Matrix: Water — **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)
		DNT
Lab Sample ID	Client Sample ID	(79-111)
240-1653-1	EQUIP RINSATE 1	91
G1G080000028B	Method Blank	89
G1G080000028C	Lab Control Sample	92

Surrogate Legend

DNT = 3,4-Dinitrotoluene

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-7492/3-A
Matrix: Water
Analysis Batch: 11019

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7492

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Acenaphthylene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Anthracene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Benzo[a]anthracene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Benzoic acid	10	U	25	10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Benzo[b]fluoranthene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Benzo[k]fluoranthene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Benzyl alcohol	0.80	U	5.0	0.38	ug/L		07/07/11 10:27	08/05/11 12:21	1
Bis(2-chloroethoxy)methane	0.80	U	1.0	0.32	ug/L		07/07/11 10:27	08/05/11 12:21	1
Bis(2-chloroethyl)ether	0.10	U	1.0	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
4-Bromophenyl phenyl ether	0.80	U	2.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
Butyl benzyl phthalate	0.80	U	1.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
2,4-Dimethylphenol	0.80	U	2.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
Dimethyl phthalate	0.80	U	1.0	0.29	ug/L		07/07/11 10:27	08/05/11 12:21	1
4,6-Dinitro-2-methylphenol	2.4	U	5.0	2.4	ug/L		07/07/11 10:27	08/05/11 12:21	1
2,4-Dinitrophenol	2.4	U	5.0	2.4	ug/L		07/07/11 10:27	08/05/11 12:21	1
2,4-Dinitrotoluene	0.80	U	5.0	0.27	ug/L		07/07/11 10:27	08/05/11 12:21	1
2,6-Dinitrotoluene	0.80	U	5.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
Fluoranthene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Fluorene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Hexachlorobenzene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Hexachlorobutadiene	0.80	U	1.0	0.27	ug/L		07/07/11 10:27	08/05/11 12:21	1
Hexachlorocyclopentadiene	0.80	U	10	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
Hexachloroethane	0.80	U	1.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
N-Nitrosodiphenylamine	0.80	U	1.0	0.31	ug/L		07/07/11 10:27	08/05/11 12:21	1
N-Nitrosodi-n-propylamine	0.80	U	1.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
1,4-Dichlorobenzene	0.80	U	1.0	0.34	ug/L		07/07/11 10:27	08/05/11 12:21	1
2-Chloronaphthalene	0.10	U	1.0	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
2-Chlorophenol	0.80	U	1.0	0.29	ug/L		07/07/11 10:27	08/05/11 12:21	1
4-Chlorophenyl phenyl ether	0.80	U	2.0	0.30	ug/L		07/07/11 10:27	08/05/11 12:21	1
Chrysene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Dibenz(a,h)anthracene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Dibenzofuran	0.10	U	1.0	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Benzo[g,h,i]perylene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Benzo[a]pyrene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Di-n-butyl phthalate	0.80	U	1.0	0.67	ug/L		07/07/11 10:27	08/05/11 12:21	1
1,2-Dichlorobenzene	0.80	U	1.0	0.29	ug/L		07/07/11 10:27	08/05/11 12:21	1
1,3-Dichlorobenzene	0.80	U	1.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
3,3'-Dichlorobenzidine	0.80	U	5.0	0.37	ug/L		07/07/11 10:27	08/05/11 12:21	1
2,4-Dichlorophenol	0.80	U	2.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
Diethyl phthalate	0.80	U	1.0	0.60	ug/L		07/07/11 10:27	08/05/11 12:21	1
Indeno[1,2,3-cd]pyrene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Isophorone	0.80	U	1.0	0.27	ug/L		07/07/11 10:27	08/05/11 12:21	1
2-Methylnaphthalene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
2-Methylphenol	0.80	U	1.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
Naphthalene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
2-Nitroaniline	0.80	U	2.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
3-Nitroaniline	0.80	U	2.0	0.28	ug/L		07/07/11 10:27	08/05/11 12:21	1
4-Nitroaniline	0.80	U	2.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-7492/3-A
Matrix: Water
Analysis Batch: 11019

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7492

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	0.10	U	1.0	0.040	ug/L		07/07/11 10:27	08/05/11 12:21	1
2-Nitrophenol	0.80	U	2.0	0.28	ug/L		07/07/11 10:27	08/05/11 12:21	1
4-Nitrophenol	2.4	U	5.0	2.4	ug/L		07/07/11 10:27	08/05/11 12:21	1
Pyrene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Pentachlorophenol	2.4	U	5.0	2.4	ug/L		07/07/11 10:27	08/05/11 12:21	1
Phenanthrene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
1,2,4-Trichlorobenzene	0.80	U	1.0	0.28	ug/L		07/07/11 10:27	08/05/11 12:21	1
2,4,5-Trichlorophenol	0.80	U	5.0	0.30	ug/L		07/07/11 10:27	08/05/11 12:21	1
2,4,6-Trichlorophenol	0.80	U	5.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
Phenol	0.80	U	1.0	0.60	ug/L		07/07/11 10:27	08/05/11 12:21	1
Carbazole	0.80	U	1.0	0.28	ug/L		07/07/11 10:27	08/05/11 12:21	1
4-Chloroaniline	0.80	U	2.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
3 & 4 Methylphenol	0.80	U	2.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
Bis(2-ethylhexyl) phthalate	2.50		2.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
Di-n-octyl phthalate	0.80	U	1.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
4-Chloro-3-methylphenol	0.80	U	2.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
bis (2-Chloroisopropyl) ether	0.80	U	1.0	0.40	ug/L		07/07/11 10:27	08/05/11 12:21	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*		*50 - 110*	*07/07/11 10:27*	*08/05/11 12:21*	*1*
2-Fluorophenol (Surr)	*65*		*20 - 110*	*07/07/11 10:27*	*08/05/11 12:21*	*1*
Nitrobenzene-d5 (Surr)	*63*		*40 - 110*	*07/07/11 10:27*	*08/05/11 12:21*	*1*
Terphenyl-d14 (Surr)	*70*		*50 - 135*	*07/07/11 10:27*	*08/05/11 12:21*	*1*
2,4,6-Tribromophenol (Surr)	*56*		*40 - 125*	*07/07/11 10:27*	*08/05/11 12:21*	*1*
Phenol-d5 (Surr)	*67*		*10 - 115*	*07/07/11 10:27*	*08/05/11 12:21*	*1*

Lab Sample ID: LCS 240-7492/4-A
Matrix: Water
Analysis Batch: 11019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7492

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	20.0	11.0		ug/L		55	45 - 110
Acenaphthylene	20.0	11.3		ug/L		57	50 - 105
Anthracene	20.0	11.9		ug/L		59	55 - 110
Benzo[a]anthracene	20.0	11.7		ug/L		59	55 - 110
Benzoic acid	20.0	10	U M	ug/L		34	0 - 125
Benzo[b]fluoranthene	20.0	11.7		ug/L		59	45 - 120
Benzo[k]fluoranthene	20.0	12.3		ug/L		62	45 - 125
Benzyl alcohol	20.0	13.0		ug/L		65	30 - 110
Bis(2-chloroethoxy)methane	20.0	12.2		ug/L		61	45 - 105
Bis(2-chloroethyl)ether	20.0	13.2		ug/L		66	35 - 110
4-Bromophenyl phenyl ether	20.0	12.0		ug/L		60	50 - 115
Butyl benzyl phthalate	20.0	12.9		ug/L		65	45 - 115
2,4-Dimethylphenol	20.0	8.60		ug/L		43	30 - 110
Dimethyl phthalate	20.0	12.2		ug/L		61	25 - 125
4,6-Dinitro-2-methylphenol	20.0	11.5		ug/L		57	40 - 130
2,4-Dinitrophenol	20.0	7.12		ug/L		36	15 - 140
2,4-Dinitrotoluene	20.0	13.1		ug/L		65	50 - 120
2,6-Dinitrotoluene	20.0	13.5		ug/L		67	50 - 115

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-7492/4-A
Matrix: Water
Analysis Batch: 11019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7492

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Fluoranthene	20.0	12.4		ug/L		62	55 - 115
Fluorene	20.0	11.6		ug/L		58	50 - 110
Hexachlorobenzene	20.0	11.7		ug/L		59	50 - 110
Hexachlorobutadiene	20.0	8.96		ug/L		45	25 - 105
Hexachloroethane	20.0	9.70		ug/L		49	30 - 95
N-Nitrosodiphenylamine	20.0	12.0		ug/L		60	50 - 110
N-Nitrosodi-n-propylamine	20.0	14.1		ug/L		71	35 - 130
1,4-Dichlorobenzene	20.0	10.5	M	ug/L		53	30 - 100
2-Chloronaphthalene	20.0	11.1		ug/L		56	50 - 105
2-Chlorophenol	20.0	11.0		ug/L		55	35 - 105
4-Chlorophenyl phenyl ether	20.0	12.0		ug/L		60	50 - 110
Chrysene	20.0	11.7		ug/L		59	55 - 110
Dibenz(a,h)anthracene	20.0	12.9		ug/L		65	40 - 125
Dibenzofuran	20.0	11.7		ug/L		59	55 - 105
Benzo[g,h,i]perylene	20.0	12.8		ug/L		64	40 - 125
Benzo[a]pyrene	20.0	10.2	Q	ug/L		51	55 - 110
Di-n-butyl phthalate	20.0	12.7		ug/L		63	55 - 115
1,2-Dichlorobenzene	20.0	10.4		ug/L		52	35 - 100
1,3-Dichlorobenzene	20.0	9.52		ug/L		48	30 - 100
3,3'-Dichlorobenzidine	20.0	8.10		ug/L		41	20 - 110
2,4-Dichlorophenol	20.0	11.1		ug/L		56	50 - 105
Diethyl phthalate	20.0	11.8		ug/L		59	40 - 120
Indeno[1,2,3-cd]pyrene	20.0	12.9		ug/L		64	45 - 125
Isophorone	20.0	12.2		ug/L		61	50 - 110
2-Methylnaphthalene	20.0	13.5		ug/L		68	45 - 105
2-Methylphenol	20.0	14.0		ug/L		70	40 - 110
Naphthalene	20.0	10.8		ug/L		54	40 - 100
2-Nitroaniline	20.0	12.7		ug/L		63	50 - 115
3-Nitroaniline	20.0	12.6		ug/L		63	20 - 125
4-Nitroaniline	20.0	11.6		ug/L		58	35 - 120
Nitrobenzene	20.0	11.5		ug/L		58	45 - 110
2-Nitrophenol	20.0	11.6		ug/L		58	40 - 115
4-Nitrophenol	20.0	11.6		ug/L		58	0 - 125
Pyrene	20.0	11.7		ug/L		58	50 - 130
Pentachlorophenol	20.0	8.12		ug/L		41	40 - 115
Phenanthrene	20.0	11.7		ug/L		59	50 - 115
1,2,4-Trichlorobenzene	20.0	9.76		ug/L		49	35 - 105
2,4,5-Trichlorophenol	20.0	11.4		ug/L		57	50 - 110
2,4,6-Trichlorophenol	20.0	10.8		ug/L		54	50 - 115
Phenol	20.0	12.5		ug/L		63	0 - 115
Carbazole	20.0	12.4		ug/L		62	50 - 115
4-Chloroaniline	20.0	10.8		ug/L		54	15 - 110
3 & 4 Methylphenol	40.0	27.2		ug/L		68	30 - 110
Bis(2-ethylhexyl) phthalate	20.0	14.0		ug/L		70	40 - 125
Di-n-octyl phthalate	20.0	12.6		ug/L		63	35 - 135
4-Chloro-3-methylphenol	20.0	12.8		ug/L		64	45 - 110
bis (2-Chloroisopropyl) ether	20.0	14.2		ug/L		71	25 - 130

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-7492/4-A
Matrix: Water
Analysis Batch: 11019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7492

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*55*		*50 - 110*
2-Fluorophenol (Surr)	*58*		*20 - 110*
Nitrobenzene-d5 (Surr)	*57*		*40 - 110*
Terphenyl-d14 (Surr)	*68*		*50 - 135*
2,4,6-Tribromophenol (Surr)	*56*		*40 - 125*
Phenol-d5 (Surr)	*68*		*10 - 115*

Method: 8081/DOD - Organochlorine Pesticides (GC)

Lab Sample ID: MB 240-7260/2-A
Matrix: Water
Analysis Batch: 10326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7260

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.010	U	0.050	0.0096	ug/L		07/06/11 08:41	07/30/11 22:52	1
4,4'-DDD	0.010	U	0.050	0.0096	ug/L		07/06/11 08:41	07/30/11 22:52	1
4,4'-DDE	0.010	U	0.050	0.0097	ug/L		07/06/11 08:41	07/30/11 22:52	1
4,4'-DDE	0.010	U	0.050	0.0097	ug/L		07/06/11 08:41	07/30/11 22:52	1
4,4'-DDT	0.030	U	0.050	0.016	ug/L		07/06/11 08:41	07/30/11 22:52	1
4,4'-DDT	0.030	U	0.050	0.016	ug/L		07/06/11 08:41	07/30/11 22:52	1
Aldrin	0.010	U	0.050	0.0082	ug/L		07/06/11 08:41	07/30/11 22:52	1
Aldrin	0.010	U	0.050	0.0082	ug/L		07/06/11 08:41	07/30/11 22:52	1
alpha-BHC	0.010	U	0.050	0.0070	ug/L		07/06/11 08:41	07/30/11 22:52	1
alpha-BHC	0.010	U	0.050	0.0070	ug/L		07/06/11 08:41	07/30/11 22:52	1
alpha-Chlordane	0.010	U	0.050	0.014	ug/L		07/06/11 08:41	07/30/11 22:52	1
alpha-Chlordane	0.010	U	0.050	0.014	ug/L		07/06/11 08:41	07/30/11 22:52	1
beta-BHC	0.010	U	0.050	0.0084	ug/L		07/06/11 08:41	07/30/11 22:52	1
beta-BHC	0.010	U	0.050	0.0084	ug/L		07/06/11 08:41	07/30/11 22:52	1
delta-BHC	0.010	U	0.050	0.0087	ug/L		07/06/11 08:41	07/30/11 22:52	1
delta-BHC	0.010	U	0.050	0.0087	ug/L		07/06/11 08:41	07/30/11 22:52	1
Dieldrin	0.010	U	0.050	0.0075	ug/L		07/06/11 08:41	07/30/11 22:52	1
Dieldrin	0.010	U	0.050	0.0075	ug/L		07/06/11 08:41	07/30/11 22:52	1
Endosulfan I	0.010	U	0.050	0.013	ug/L		07/06/11 08:41	07/30/11 22:52	1
Endosulfan I	0.010	U	0.050	0.013	ug/L		07/06/11 08:41	07/30/11 22:52	1
Endosulfan II	0.010	U	0.050	0.012	ug/L		07/06/11 08:41	07/30/11 22:52	1
Endosulfan II	0.010	U	0.050	0.012	ug/L		07/06/11 08:41	07/30/11 22:52	1
Endosulfan sulfate	0.010	U	0.050	0.011	ug/L		07/06/11 08:41	07/30/11 22:52	1
Endosulfan sulfate	0.010	U	0.050	0.011	ug/L		07/06/11 08:41	07/30/11 22:52	1
Endrin	0.010	U	0.050	0.011	ug/L		07/06/11 08:41	07/30/11 22:52	1
Endrin	0.010	U	0.050	0.011	ug/L		07/06/11 08:41	07/30/11 22:52	1
Endrin aldehyde	0.010	U	0.050	0.011	ug/L		07/06/11 08:41	07/30/11 22:52	1
Endrin aldehyde	0.010	U	0.050	0.011	ug/L		07/06/11 08:41	07/30/11 22:52	1
Endrin ketone	0.010	U	0.050	0.0078	ug/L		07/06/11 08:41	07/30/11 22:52	1
Endrin ketone	0.010	U	0.050	0.0078	ug/L		07/06/11 08:41	07/30/11 22:52	1
gamma-BHC (Lindane)	0.010	U	0.050	0.0064	ug/L		07/06/11 08:41	07/30/11 22:52	1
gamma-BHC (Lindane)	0.010	U	0.050	0.0064	ug/L		07/06/11 08:41	07/30/11 22:52	1
gamma-Chlordane	0.010	U	0.050	0.012	ug/L		07/06/11 08:41	07/30/11 22:52	1
gamma-Chlordane	0.010	U	0.050	0.012	ug/L		07/06/11 08:41	07/30/11 22:52	1
Heptachlor	0.010	U	0.050	0.0080	ug/L		07/06/11 08:41	07/30/11 22:52	1

Method: 8081/DOD - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 240-7260/2-A
Matrix: Water
Analysis Batch: 10326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7260

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.010	U	0.050	0.0080	ug/L		07/06/11 08:41	07/30/11 22:52	1
Heptachlor epoxide	0.010	U	0.050	0.0071	ug/L		07/06/11 08:41	07/30/11 22:52	1
Heptachlor epoxide	0.010	U	0.050	0.0071	ug/L		07/06/11 08:41	07/30/11 22:52	1
Methoxychlor	0.030	U	0.10	0.032	ug/L		07/06/11 08:41	07/30/11 22:52	1
Methoxychlor	0.030	U	0.10	0.032	ug/L		07/06/11 08:41	07/30/11 22:52	1
Toxaphene	0.50	U	2.0	0.32	ug/L		07/06/11 08:41	07/30/11 22:52	1
Toxaphene	0.50	U	2.0	0.32	ug/L		07/06/11 08:41	07/30/11 22:52	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*104*		*30 - 135*	*07/06/11 08:41*	*07/30/11 22:52*	*1*
DCB Decachlorobiphenyl	*106*		*30 - 135*	*07/06/11 08:41*	*07/30/11 22:52*	*1*
Tetrachloro-m-xylene	*102*		*25 - 140*	*07/06/11 08:41*	*07/30/11 22:52*	*1*
Tetrachloro-m-xylene	*86*		*25 - 140*	*07/06/11 08:41*	*07/30/11 22:52*	*1*

Lab Sample ID: LCS 240-7260/3-A
Matrix: Water
Analysis Batch: 10326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDD	1.00	1.08		ug/L		108	25 - 150
4,4'-DDD	1.00	1.12		ug/L		112	25 - 150
4,4'-DDE	1.00	1.20		ug/L		120	35 - 140
4,4'-DDE	1.00	1.22		ug/L		122	35 - 140
4,4'-DDT	1.00	0.860		ug/L		86	45 - 140
4,4'-DDT	1.00	0.841		ug/L		84	45 - 140
Aldrin	1.00	1.07		ug/L		107	25 - 140
Aldrin	1.00	1.14		ug/L		114	25 - 140
alpha-BHC	1.00	1.12		ug/L		112	60 - 130
alpha-BHC	1.00	1.21		ug/L		121	60 - 130
alpha-Chlordane	1.00	1.09		ug/L		109	65 - 125
alpha-Chlordane	1.00	1.14		ug/L		114	65 - 125
beta-BHC	1.00	1.08		ug/L		108	65 - 125
beta-BHC	1.00	1.11		ug/L		111	65 - 125
delta-BHC	1.00	1.05		ug/L		105	45 - 135
delta-BHC	1.00	1.15		ug/L		115	45 - 135
Dieldrin	1.00	1.10		ug/L		110	60 - 130
Dieldrin	1.00	1.10		ug/L		110	60 - 130
Endosulfan I	1.00	0.523		ug/L		52	50 - 110
Endosulfan I	1.00	0.554		ug/L		55	50 - 110
Endosulfan II	1.00	0.631		ug/L		63	30 - 130
Endosulfan II	1.00	0.645		ug/L		65	30 - 130
Endosulfan sulfate	1.00	0.967		ug/L		97	55 - 135
Endosulfan sulfate	1.00	1.01		ug/L		101	55 - 135
Endrin	1.00	0.950		ug/L		95	55 - 135
Endrin	1.00	1.08		ug/L		108	55 - 135
Endrin aldehyde	1.00	0.696		ug/L		70	55 - 135
Endrin aldehyde	1.00	0.683		ug/L		68	55 - 135
Endrin ketone	1.00	0.837		ug/L		84	75 - 125
Endrin ketone	1.00	0.877		ug/L		88	75 - 125

Method: 8081/DOD - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 240-7260/3-A
Matrix: Water
Analysis Batch: 10326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
gamma-BHC (Lindane)	1.00	1.01		ug/L		101	25 - 135
gamma-BHC (Lindane)	1.00	1.06		ug/L		106	25 - 135
gamma-Chlordane	1.00	1.11		ug/L		111	60 - 125
gamma-Chlordane	1.00	1.14		ug/L		114	60 - 125
Heptachlor	1.00	0.850		ug/L		85	40 - 130
Heptachlor	1.00	0.870		ug/L		87	40 - 130
Heptachlor epoxide	1.00	1.07		ug/L		107	60 - 130
Heptachlor epoxide	1.00	1.13		ug/L		113	60 - 130
Methoxychlor	1.00	0.817		ug/L		82	55 - 150
Methoxychlor	1.00	0.878		ug/L		88	55 - 150

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*69*		*30 - 135*
DCB Decachlorobiphenyl	*64*		*30 - 135*
Tetrachloro-m-xylene	*129*		*25 - 140*
Tetrachloro-m-xylene	*84*		*25 - 140*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-7692/4-A
Matrix: Water
Analysis Batch: 8509

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7692

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.20	U	0.50	0.17	ug/L		07/08/11 10:55	07/15/11 04:08	1
Aroclor 1016	0.20	U	0.50	0.17	ug/L		07/08/11 10:55	07/15/11 04:08	1
Aroclor 1221	0.20	U	0.50	0.13	ug/L		07/08/11 10:55	07/15/11 04:08	1
Aroclor 1221	0.20	U	0.50	0.13	ug/L		07/08/11 10:55	07/15/11 04:08	1
Aroclor 1232	0.20	U	0.50	0.16	ug/L		07/08/11 10:55	07/15/11 04:08	1
Aroclor 1232	0.20	U	0.50	0.16	ug/L		07/08/11 10:55	07/15/11 04:08	1
Aroclor 1242	0.40	U	0.50	0.22	ug/L		07/08/11 10:55	07/15/11 04:08	1
Aroclor 1242	0.40	U	0.50	0.22	ug/L		07/08/11 10:55	07/15/11 04:08	1
Aroclor 1248	0.20	U	0.50	0.10	ug/L		07/08/11 10:55	07/15/11 04:08	1
Aroclor 1248	0.20	U	0.50	0.10	ug/L		07/08/11 10:55	07/15/11 04:08	1
Aroclor 1254	0.20	U	0.50	0.16	ug/L		07/08/11 10:55	07/15/11 04:08	1
Aroclor 1254	0.20	U	0.50	0.16	ug/L		07/08/11 10:55	07/15/11 04:08	1
Aroclor 1260	0.20	U	0.50	0.17	ug/L		07/08/11 10:55	07/15/11 04:08	1
Aroclor 1260	0.20	U	0.50	0.17	ug/L		07/08/11 10:55	07/15/11 04:08	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*46*		*40 - 140*	*07/08/11 10:55*	*07/15/11 04:08*	*1*
Tetrachloro-m-xylene	*48*		*40 - 140*	*07/08/11 10:55*	*07/15/11 04:08*	*1*
DCB Decachlorobiphenyl	*47*		*40 - 135*	*07/08/11 10:55*	*07/15/11 04:08*	*1*
DCB Decachlorobiphenyl	*44*		*40 - 135*	*07/08/11 10:55*	*07/15/11 04:08*	*1*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-7692/5-A
Matrix: Water
Analysis Batch: 8509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aroclor 1016	10.0	7.33		ug/L		73	25 - 145
Aroclor 1016	10.0	7.19		ug/L		72	25 - 145
Aroclor 1260	10.0	8.23		ug/L		82	30 - 145
Aroclor 1260	10.0	7.82		ug/L		78	30 - 145

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*67*		*40 - 140*
Tetrachloro-m-xylene	*68*		*40 - 140*
DCB Decachlorobiphenyl	*40*		*40 - 135*
DCB Decachlorobiphenyl	*34*	*Q*	*40 - 135*

Method: 8330 (Modified) - Organic Compounds by UV/HPLC

Lab Sample ID: G1G200000051B
Matrix: Water
Analysis Batch: 1201051

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 1201051_P

Analyte	MB Result	MB Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	6.0 U		20	2.4	ug/L		07/20/11 08:50	07/27/11 12:08	1

Lab Sample ID: G1G200000051C
Matrix: Water
Analysis Batch: 1201051

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 1201051_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitroguanidine	250	232		ug/L		93	73 - 117

Lab Sample ID: 240-1653-1 MS
Matrix: Water
Analysis Batch: 1201051

Client Sample ID: EQUIP RINSATE 1
Prep Type: Dissolved
Prep Batch: 1201051_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitroguanidine	6.0 U		250	240		ug/L		96	73 - 117

Lab Sample ID: 240-1653-1 MSD
Matrix: Water
Analysis Batch: 1201051

Client Sample ID: EQUIP RINSATE 1
Prep Type: Dissolved
Prep Batch: 1201051_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Nitroguanidine	6.0 U		250	250		ug/L		100	73 - 117	4.3	15

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Lab Sample ID: G1G080000028B
Matrix: Water
Analysis Batch: 1189028

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 1189028_P

Analyte	MB Result	MB Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroglycerin	0.50 U		0.65	0.33	ug/L		07/08/11 06:30	07/15/11 04:41	1
PETN	0.50 U		0.65	0.30	ug/L		07/08/11 06:30	07/15/11 04:41	1

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A) (Continued)

Lab Sample ID: G1G080000028B — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 1189028 — **Prep Batch: 1189028_P**

Analyte	MB Result	MB Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Amino-4,6-dinitrotoluene	0.10 U		0.20	0.10	ug/L		07/08/11 06:30	07/15/11 04:41	1
4-Amino-2,6-dinitrotoluene	0.050 U		0.10	0.050	ug/L		07/08/11 06:30	07/15/11 04:41	1
1,3-Dinitrobenzene	0.050 U		0.10	0.050	ug/L		07/08/11 06:30	07/15/11 04:41	1
2,4-Dinitrotoluene	0.050 U		0.10	0.050	ug/L		07/08/11 06:30	07/15/11 04:41	1
2,6-Dinitrotoluene	0.050 U		0.10	0.050	ug/L		07/08/11 06:30	07/15/11 04:41	1
HMX	0.050 U		0.10	0.036	ug/L		07/08/11 06:30	07/15/11 04:41	1
Nitrobenzene	0.050 U		0.10	0.050	ug/L		07/08/11 06:30	07/15/11 04:41	1
2-Nitrotoluene	0.10 U		0.50	0.088	ug/L		07/08/11 06:30	07/15/11 04:41	1
3-Nitrotoluene	0.10 U		0.50	0.057	ug/L		07/08/11 06:30	07/15/11 04:41	1
4-Nitrotoluene	0.10 U		0.65	0.088	ug/L		07/08/11 06:30	07/15/11 04:41	1
RDX	0.050 U		0.10	0.036	ug/L		07/08/11 06:30	07/15/11 04:41	1
Tetryl	0.050 U		0.10	0.050	ug/L		07/08/11 06:30	07/15/11 04:41	1
1,3,5-Trinitrobenzene	0.050 U		0.10	0.030	ug/L		07/08/11 06:30	07/15/11 04:41	1
2,4,6-Trinitrotoluene	0.050 U		0.10	0.050	ug/L		07/08/11 06:30	07/15/11 04:41	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*89*		*79 - 111*	*07/08/11 06:30*	*07/15/11 04:41*	*1*

Lab Sample ID: G1G080000028C — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 1189028 — **Prep Batch: 1189028_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitroglycerin	5.00	4.76		ug/L		95	85 - 115
PETN	5.00	4.58		ug/L		92	84 - 117
2-Amino-4,6-dinitrotoluene	1.00	1.05		ug/L		105	50 - 155
4-Amino-2,6-dinitrotoluene	1.00	1.03		ug/L		103	55 - 155
1,3-Dinitrobenzene	1.00	1.10		ug/L		110	45 - 160
2,4-Dinitrotoluene	1.00	1.05		ug/L		105	60 - 135
2,6-Dinitrotoluene	1.00	1.07		ug/L		107	60 - 135
HMX	1.00	1.01		ug/L		101	80 - 115
Nitrobenzene	1.00	1.11		ug/L		111	50 - 140
2-Nitrotoluene	1.00	1.01		ug/L		101	45 - 135
3-Nitrotoluene	1.00	1.00		ug/L		100	50 - 130
4-Nitrotoluene	1.00	1.02		ug/L		102	50 - 130
RDX	1.00	1.24		ug/L		124	50 - 160
Tetryl	1.00	0.992		ug/L		99	20 - 175
1,3,5-Trinitrobenzene	1.00	1.07		ug/L		107	65 - 140
2,4,6-Trinitrotoluene	1.00	0.952		ug/L		95	50 - 145

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
3,4-Dinitrotoluene	*92*		*79 - 111*

Method: 6020/DOD - Metals (ICP/MS)

Lab Sample ID: MB 240-10075/1-A
Matrix: Water
Analysis Batch: 13699

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 10075

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	60	U	60	20	ug/L		07/28/11 11:13	08/29/11 11:33	1
Antimony	0.50	U	2.0	0.21	ug/L		07/28/11 11:13	08/29/11 11:33	1
Arsenic	1.0	U	5.0	0.44	ug/L		07/28/11 11:13	08/29/11 11:33	1
Barium	4.0	U	5.0	1.6	ug/L		07/28/11 11:13	08/29/11 11:33	1
Beryllium	0.10	U	1.0	0.033	ug/L		07/28/11 11:13	08/29/11 11:33	1
Cadmium	0.070	U	2.0	0.023	ug/L		07/28/11 11:13	08/29/11 11:33	1
Calcium	1000	U	2000	540	ug/L		07/28/11 11:13	08/29/11 11:33	1
Chromium	1.5	U	2.0	0.53	ug/L		07/28/11 11:13	08/29/11 11:33	1
Cobalt	0.090	U	1.0	0.030	ug/L		07/28/11 11:13	08/29/11 11:33	1
Copper	4.0	U	4.0	1.4	ug/L		07/28/11 11:13	08/29/11 11:33	1
Iron	100	U	150	44	ug/L		07/28/11 11:13	08/29/11 11:33	1
Lead	0.50	U	1.0	0.20	ug/L		07/28/11 11:13	08/29/11 11:33	1
Magnesium	300	U	1000	120	ug/L		07/28/11 11:13	08/29/11 11:33	1
Manganese	3.0	U	5.0	1.1	ug/L		07/28/11 11:13	08/29/11 11:33	1
Nickel	1.5	U	5.0	0.62	ug/L		07/28/11 11:13	08/29/11 11:33	1
Potassium	50	U	1000	16	ug/L		07/28/11 11:13	08/29/11 11:33	1
Selenium	0.50	U	5.0	0.20	ug/L		07/28/11 11:13	08/29/11 11:33	1
Silver	0.25	U	1.0	0.080	ug/L		07/28/11 11:13	08/29/11 11:33	1
Sodium	400	U	1000	160	ug/L		07/28/11 11:13	08/29/11 11:33	1
Thallium	1.0	U	2.0	0.32	ug/L		07/28/11 11:13	08/29/11 11:33	1
Vanadium	1.5	U	5.0	0.51	ug/L		07/28/11 11:13	08/29/11 11:33	1
Zinc	46.4		40	8.8	ug/L		07/28/11 11:13	08/29/11 11:33	1

Lab Sample ID: LCS 240-10075/2-A ^10
Matrix: Water
Analysis Batch: 13699

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 10075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	10000	10300	D	ug/L		103	80 - 120
Antimony	100	107	D	ug/L		107	80 - 120
Arsenic	1000	1050	D	ug/L		105	80 - 120
Barium	1000	964	D	ug/L		96	80 - 120
Beryllium	1000	1030	D	ug/L		103	80 - 120
Cadmium	1000	1060	D	ug/L		106	80 - 120
Calcium	10000	10000	J D	ug/L		100	80 - 120
Chromium	1000	982	D	ug/L		98	80 - 120
Cobalt	1000	1020	D	ug/L		102	80 - 120
Copper	1000	1070	D	ug/L		107	80 - 120
Iron	10000	11200	D	ug/L		112	80 - 120
Lead	1000	952	D	ug/L		95	80 - 120
Magnesium	10000	10400	D	ug/L		104	80 - 120
Manganese	1000	1080	D	ug/L		108	80 - 120
Nickel	1000	1060	D	ug/L		106	80 - 120
Potassium	10000	10100	D	ug/L		101	80 - 120
Selenium	1000	1050	D	ug/L		105	80 - 120
Silver	100	109	D	ug/L		109	80 - 120
Sodium	10000	11100	D	ug/L		111	80 - 120
Thallium	1000	966	D	ug/L		97	80 - 120
Vanadium	1000	982	D	ug/L		98	80 - 120
Zinc	1000	1180	D	ug/L		118	80 - 120

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-1653-1 MS
Matrix: Water
Analysis Batch: 13699

Client Sample ID: EQUIP RINSATE 1
Prep Type: Total Recoverable
Prep Batch: 10075

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	60	U	10000	10100		ug/L		101	63 - 128
Antimony	0.50	U	100	103		ug/L		103	44 - 153
Arsenic	1.0	U	100	98.5		ug/L		98	82 - 123
Barium	4.0	U	100	95.9		ug/L		96	45 - 144
Beryllium	0.10	U	100	99.4		ug/L		99	77 - 124
Cadmium	0.070	U	100	103		ug/L		103	78 - 117
Calcium	1000	U	10000	9630		ug/L		96	70 - 130
Chromium	1.5	U	100	95.2		ug/L		95	72 - 110
Cobalt	0.041	J	100	99.0		ug/L		99	67 - 114
Copper	4.0	U	100	102		ug/L		102	60 - 123
Iron	100	U	10000	10300		ug/L		103	22 - 169
Lead	0.50	U	100	95.2		ug/L		95	73 - 115
Magnesium	300	U	10000	10300		ug/L		103	70 - 130
Manganese	3.0	U	100	104		ug/L		104	10 - 172
Nickel	2.2	J	100	103		ug/L		101	72 - 111
Potassium	50	U	10000	9860		ug/L		99	70 - 130
Selenium	0.50	U	100	101		ug/L		101	72 - 148
Silver	0.25	U	100	105		ug/L		105	10 - 139
Sodium	260	J	10000	11100		ug/L		108	80 - 120
Thallium	1.0	U	100	97.4		ug/L		97	69 - 117
Vanadium	1.5	U	100	96.0		ug/L		96	70 - 112
Zinc	13	J B	100	105		ug/L		92	49 - 156

Lab Sample ID: 240-1653-1 MSD
Matrix: Water
Analysis Batch: 13699

Client Sample ID: EQUIP RINSATE 1
Prep Type: Total Recoverable
Prep Batch: 10075

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Aluminum	60	U	10000	10000		ug/L		100	63 - 128	0	20
Antimony	0.50	U	100	102		ug/L		102	44 - 153	1	20
Arsenic	1.0	U	100	96.6		ug/L		97	82 - 123	2	20
Barium	4.0	U	100	94.7		ug/L		95	45 - 144	1	20
Beryllium	0.10	U	100	98.7		ug/L		99	77 - 124	1	20
Cadmium	0.070	U	100	102		ug/L		102	78 - 117	1	20
Calcium	1000	U	10000	9630		ug/L		96	70 - 130	0	20
Chromium	1.5	U	100	95.6		ug/L		96	72 - 110	0	20
Cobalt	0.041	J	100	97.3		ug/L		97	67 - 114	2	20
Copper	4.0	U	100	100		ug/L		100	60 - 123	1	20
Iron	100	U	10000	10100		ug/L		101	22 - 169	2	20
Lead	0.50	U	100	94.6		ug/L		95	73 - 115	1	20
Magnesium	300	U	10000	10300		ug/L		103	70 - 130	0	20
Manganese	3.0	U	100	104		ug/L		104	10 - 172	0	20
Nickel	2.2	J	100	102		ug/L		100	72 - 111	1	20
Potassium	50	U	10000	9850		ug/L		98	70 - 130	0	20
Selenium	0.50	U	100	99.2		ug/L		99	72 - 148	2	20
Silver	0.25	U	100	103		ug/L		103	10 - 139	1	20
Sodium	260	J	10000	11100		ug/L		108	80 - 120	0	20
Thallium	1.0	U	100	97.3		ug/L		97	69 - 117	0	20
Vanadium	1.5	U	100	95.5		ug/L		96	70 - 112	1	20
Zinc	13	J B	100	103		ug/L		89	49 - 156	2	20

Method: 7470A/DOD - Mercury (CVAA)

Lab Sample ID: MB 240-7563/1-A
Matrix: Water
Analysis Batch: 7837

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7563

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.20	U	0.20	0.12	ug/L		07/07/11 15:50	07/08/11 09:58	1

Lab Sample ID: LCS 240-7563/2-A
Matrix: Water
Analysis Batch: 7837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7563

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Hg	5.00	4.69		ug/L		94	80 - 120

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 240-6991/3
Matrix: Water
Analysis Batch: 6991

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	0.0040	U	0.020	0.0020	mg/L			07/02/11 10:09	1

Lab Sample ID: LCS 240-6991/4
Matrix: Water
Analysis Batch: 6991

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Hexavalent chromium	0.250	0.264		mg/L		106	80 - 118

Lab Sample ID: 240-1653-1 MS
Matrix: Water
Analysis Batch: 6991

Client Sample ID: EQUIP RINSATE 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Hexavalent chromium	0.0040	U	0.250	0.247		mg/L		99	41 - 136

Lab Sample ID: 240-1653-1 MSD
Matrix: Water
Analysis Batch: 6991

Client Sample ID: EQUIP RINSATE 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Hexavalent chromium	0.0040	U	0.250	0.249		mg/L		100	41 - 136	1	20

Method: WS-WC-0050 - Nitrocellulose as N by WS-WC-0050

Lab Sample ID: G1G200000023B
Matrix: Water
Analysis Batch: 1201023

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 1201023_P

Analyte	MB Result	MB Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	1.0 U		2.0	0.48	mg/L		07/20/11 08:00	07/21/11 13:23	1

Method: WS-WC-0050 - Nitrocellulose as N by WS-WC-0050 (Continued)

Lab Sample ID: G1G200000023C — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 1201023 — **Prep Batch: 1201023_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Nitrocellulose			5.07	4.58		mg/L		90	26 - 144		

Lab Sample ID: 240-1653-1 MS — **Client Sample ID: EQUIP RINSATE 1**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 1201023 — **Prep Batch: 1201023_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits		
Nitrocellulose	1.0 U		5.07	4.36		mg/L		86	26 - 144		

Lab Sample ID: 240-1653-1 MSD — **Client Sample ID: EQUIP RINSATE 1**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 1201023 — **Prep Batch: 1201023_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Nitrocellulose	1.0 U		5.07	4.67		mg/L		92	26 - 144	6.9	45

GC/MS Semi VOA

Prep Batch: 7492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1653-1	EQUIP RINSATE 1	Total/NA	Water	3520C	
LCS 240-7492/4-A	Lab Control Sample	Total/NA	Water	3520C	
MB 240-7492/3-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 11019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1653-1	EQUIP RINSATE 1	Total/NA	Water	8270C/DoD	7492
LCS 240-7492/4-A	Lab Control Sample	Total/NA	Water	8270C/DoD	7492
MB 240-7492/3-A	Method Blank	Total/NA	Water	8270C/DoD	7492

GC Semi VOA

Prep Batch: 7260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1653-1	EQUIP RINSATE 1	Total/NA	Water	3520C	
LCS 240-7260/3-A	Lab Control Sample	Total/NA	Water	3520C	
MB 240-7260/2-A	Method Blank	Total/NA	Water	3520C	

Prep Batch: 7692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1653-1	EQUIP RINSATE 1	Total/NA	Water	3520C	
LCS 240-7692/5-A	Lab Control Sample	Total/NA	Water	3520C	
MB 240-7692/4-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 8509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1653-1	EQUIP RINSATE 1	Total/NA	Water	8082/DOD	7692
LCS 240-7692/5-A	Lab Control Sample	Total/NA	Water	8082/DOD	7692
MB 240-7692/4-A	Method Blank	Total/NA	Water	8082/DOD	7692

Analysis Batch: 10326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1653-1	EQUIP RINSATE 1	Total/NA	Water	8081/DOD	7260
LCS 240-7260/3-A	Lab Control Sample	Total/NA	Water	8081/DOD	7260
MB 240-7260/2-A	Method Blank	Total/NA	Water	8081/DOD	7260

HPLC

Analysis Batch: 1189028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1653-1	EQUIP RINSATE 1	Total	Water	8330/8330A	
G1G080000028B	Method Blank	Total	Water	8330/8330A	
G1G080000028C	Lab Control Sample	Total	Water	8330/8330A	

Analysis Batch: 1201051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1653-1	EQUIP RINSATE 1	Dissolved	Water	8330 (Modified)	
240-1653-1 MS	EQUIP RINSATE 1	Dissolved	Water	8330 (Modified)	
240-1653-1 MSD	EQUIP RINSATE 1	Dissolved	Water	8330 (Modified)	
G1G200000051B	Method Blank	Dissolved	Water	8330 (Modified)	
G1G200000051C	Lab Control Sample	Dissolved	Water	8330 (Modified)	

HPLC (Continued)

Prep Batch: 1189028_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1653-1	EQUIP RINSATE 1	Total	Water	3535	
G1G080000028B	Method Blank	Total	Water	3535	
G1G080000028C	Lab Control Sample	Total	Water	3535	

Prep Batch: 1201051_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1653-1	EQUIP RINSATE 1	Dissolved	Water	FILTRATION (DISS)	
240-1653-1 MS	EQUIP RINSATE 1	Dissolved	Water	FILTRATION (DISS)	
240-1653-1 MSD	EQUIP RINSATE 1	Dissolved	Water	FILTRATION (DISS)	
G1G200000051B	Method Blank	Dissolved	Water	FILTRATION (DISS)	
G1G200000051C	Lab Control Sample	Dissolved	Water	FILTRATION (DISS)	

Metals

Prep Batch: 7563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1653-1	EQUIP RINSATE 1	Total/NA	Water	7470A	
LCS 240-7563/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 240-7563/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 7837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1653-1	EQUIP RINSATE 1	Total/NA	Water	7470A/DOD	7563
LCS 240-7563/2-A	Lab Control Sample	Total/NA	Water	7470A/DOD	7563
MB 240-7563/1-A	Method Blank	Total/NA	Water	7470A/DOD	7563

Prep Batch: 10075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1653-1	EQUIP RINSATE 1	Total Recoverable	Water	3005A	
240-1653-1 MS	EQUIP RINSATE 1	Total Recoverable	Water	3005A	
240-1653-1 MSD	EQUIP RINSATE 1	Total Recoverable	Water	3005A	
LCS 240-10075/2-A ^10	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-10075/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 13699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1653-1	EQUIP RINSATE 1	Total Recoverable	Water	6020/DOD	10075
240-1653-1 MS	EQUIP RINSATE 1	Total Recoverable	Water	6020/DOD	10075
240-1653-1 MSD	EQUIP RINSATE 1	Total Recoverable	Water	6020/DOD	10075
LCS 240-10075/2-A ^10	Lab Control Sample	Total Recoverable	Water	6020/DOD	10075
MB 240-10075/1-A	Method Blank	Total Recoverable	Water	6020/DOD	10075

General Chemistry

Analysis Batch: 6991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1653-1	EQUIP RINSATE 1	Total/NA	Water	7196A	
240-1653-1 MS	EQUIP RINSATE 1	Total/NA	Water	7196A	

General Chemistry (Continued)

Analysis Batch: 6991 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1653-1 MSD	EQUIP RINSATE 1	Total/NA	Water	7196A	
LCS 240-6991/4	Lab Control Sample	Total/NA	Water	7196A	
MB 240-6991/3	Method Blank	Total/NA	Water	7196A	

Analysis Batch: 1201023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1653-1	EQUIP RINSATE 1	Total	Water	WS-WC-0050	
240-1653-1 MS	EQUIP RINSATE 1	Total	Water	WS-WC-0050	
240-1653-1 MSD	EQUIP RINSATE 1	Total	Water	WS-WC-0050	
G1G200000023B	Method Blank	Total	Water	WS-WC-0050	
G1G200000023C	Lab Control Sample	Total	Water	WS-WC-0050	

Prep Batch: 1201023_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1653-1	EQUIP RINSATE 1	Total	Water	EXTRACTION, SOLID PHASE	
240-1653-1 MS	EQUIP RINSATE 1	Total	Water	EXTRACTION, SOLID PHASE	
240-1653-1 MSD	EQUIP RINSATE 1	Total	Water	EXTRACTION, SOLID PHASE	
G1G200000023B	Method Blank	Total	Water	EXTRACTION, SOLID PHASE	
G1G200000023C	Lab Control Sample	Total	Water	EXTRACTION, SOLID PHASE	

Lab Chronicle

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1653-1

Client Sample ID: EQUIP RINSATE 1

Lab Sample ID: 240-1653-1

Date Collected: 07/01/11 13:00

Matrix: Water

Date Received: 07/01/11 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			7492	07/07/11 10:27	CC	TAL NC
Total/NA	Analysis	8270C/DoD		1	11019	08/05/11 16:07	MU	TAL NC
Total/NA	Prep	3520C			7260	07/06/11 08:41	CC	TAL NC
Total/NA	Analysis	8081/DOD		1	10326	07/30/11 22:27	CV	TAL NC
Total/NA	Prep	3520C			7692	07/08/11 10:55	CC	TAL NC
Total/NA	Analysis	8082/DOD		1	8509	07/15/11 03:53	LH	TAL NC
Total	Prep	3535			1189028_P	07/08/11 06:30	HJA	TAL WSC
Total	Analysis	8330/8330A		1.01	1189028	07/15/11 06:01	NS	TAL WSC
Dissolved	Prep	FILTRATION (DISS)			1201051_P	07/20/11 08:50	HJA	TAL WSC
Dissolved	Analysis	8330 (Modified)		1	1201051	07/27/11 12:36	NS	TAL WSC
Total Recoverable	Prep	3005A			10075	07/28/11 11:13	LM	TAL NC
Total Recoverable	Analysis	6020/DOD		1	13699	08/29/11 11:45	NJM	TAL NC
Total/NA	Prep	7470A			7563	07/07/11 15:50	LM	TAL NC
Total/NA	Analysis	7470A/DOD		1	7837	07/08/11 10:26	BD	TAL NC
Total/NA	Analysis	7196A		1	6991	07/02/11 10:09	AM	TAL NC
Total	Prep	EXTRACTION, SOLID PHASE			1201023_P	07/20/11 08:00	TQP	TAL WSC
Total	Analysis	WS-WC-0050		1	1201023	07/21/11 13:27	JR	TAL WSC

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1653-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica North Canton	ACLASS	DoD ELAP		ADE-1437
TestAmerica North Canton	California	NELAC	9	01144CA
TestAmerica North Canton	Connecticut	State Program	1	PH-0590
TestAmerica North Canton	Florida	NELAC	4	E87225
TestAmerica North Canton	Georgia	Georgia EPD	4	N/A
TestAmerica North Canton	Illinois	NELAC	5	200004
TestAmerica North Canton	Kansas	NELAC	7	E-10336
TestAmerica North Canton	Kentucky	State Program	4	58
TestAmerica North Canton	Minnesota	NELAC	5	039-999-348
TestAmerica North Canton	Nevada	State Program	9	OH-000482008A
TestAmerica North Canton	New Jersey	NELAC	2	OH001
TestAmerica North Canton	New York	NELAC	2	10975
TestAmerica North Canton	Ohio	OVAP	5	CL0024
TestAmerica North Canton	Pennsylvania	NELAC	3	68-00340
TestAmerica North Canton	USDA	USDA		P330-11-00328
TestAmerica North Canton	Virginia	NELAC Secondary AB	3	460175
TestAmerica North Canton	West Virginia	West Virginia DEP	3	210
TestAmerica North Canton	Wisconsin	State Program	5	999518190
TestAmerica West Sacramento		USEPA UCMR		CA00044
TestAmerica West Sacramento	A2LA	DoD ELAP		2928-01
TestAmerica West Sacramento	Alaska	Alaska UST	10	UST-055
TestAmerica West Sacramento	Arizona	State Program	9	AZ0708
TestAmerica West Sacramento	Arkansas	State Program	6	88-0691
TestAmerica West Sacramento	California	NELAC	9	1119CA
TestAmerica West Sacramento	Colorado	State Program	8	N/A
TestAmerica West Sacramento	Connecticut	State Program	1	PH-0691
TestAmerica West Sacramento	Florida	NELAC	4	E87570
TestAmerica West Sacramento	Georgia	State Program	4	960
TestAmerica West Sacramento	Guam	State Program	9	N/A
TestAmerica West Sacramento	Hawaii	State Program	9	N/A
TestAmerica West Sacramento	Illinois	NELAC	5	200060
TestAmerica West Sacramento	Kansas	NELAC	7	E-10375
TestAmerica West Sacramento	Louisiana	NELAC	6	30612
TestAmerica West Sacramento	Michigan	State Program	5	9947
TestAmerica West Sacramento	Nevada	State Program	9	CA44
TestAmerica West Sacramento	New Jersey	NELAC	2	CA005
TestAmerica West Sacramento	New Mexico	State Program	6	N/A
TestAmerica West Sacramento	New York	NELAC	2	11666
TestAmerica West Sacramento	Oregon	NELAC	10	CA200005
TestAmerica West Sacramento	Pennsylvania	NELAC	3	68-01272
TestAmerica West Sacramento	South Carolina	State Program	4	87014
TestAmerica West Sacramento	Texas	NELAC	6	T104704399-08-TX
TestAmerica West Sacramento	US Fish & Wildlife	US Fish & Wildlife		LE148388-0
TestAmerica West Sacramento	USDA	USDA		P330-09-00055
TestAmerica West Sacramento	Utah	NELAC	8	QUAN1
TestAmerica West Sacramento	Virginia	State Program	3	178
TestAmerica West Sacramento	Washington	State Program	10	C581
TestAmerica West Sacramento	West Virginia	West Virginia DEP	3	334
TestAmerica West Sacramento	West Virginia	West Virginia DHHR (DW)	3	9930C
TestAmerica West Sacramento	Wisconsin	State Program	5	998204680
TestAmerica West Sacramento	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: N. CANTON
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other RVAAP

TestAmerica Laboratories, Inc.

Client Contact	Client Project Manager:	Site Contact:	Lab Contact:	COC No:
Company Name: PRUDENT TECHNOLOGIES	JOHN JENT	JOHN JENT	MARK LOEB	014336
Address: 4242 MEDICAL DR. SUITE 5250	Telephone: 502 439-8005	Telephone: 502 439-8005	Telephone: 330-497-9396	1 of 1 COCs
City/State/Zip: SAN ANTONIO, TX 78229	Email: jjent@prudentweb.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: 210 822-9588		TAT if different from below ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐ Job/SDG No.
Project Name: LLs 1-4, 12	Method of Shipment/Carrier:			
Project Number: W912QR-10-P-0037	Shipping/Tracking No:			
PO#				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	6010B TAL	7471A HG	7196 CR6	8330B MOD EXPL	PCB PELLANTS	8270C SVOCS	8081 PESTICIDES	8082 PCBS	8270C-LL (SIMPAH)	8260B VOC	Sample Specific Notes / Special Instructions:
EQUIP RINSATE 1-1				X																		X					
" " 1-2				X																		X					
" " 1-3				X																			X				
" " 1-4				X																			X				
" " 1-5				X																				X			
" " 1-6				X																				X			
" " 1-7				X																X							
" " 1-8				X																X							
" " 1-9				X																	X						
" " 1-10				X													X										
" " 1-11				X															X								

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	PRUDENT	7-1-2011 1500			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL	Date/Time: 7/1/11 1500

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TAL 0018- I (04/10)

09/22/2011

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 1653
North Canton Facility

Client Prudent Project LLs 1-4, 12 By: Jerry Burns (Signature)
Cooler Received on 7/1/11 Opened on 7/1/11
FedEx ☐ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☒ TestAmerica Courier ☐ Other ____
TestAmerica Cooler # L817 Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other ____

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒
   If YES, Quantity ____ Quantity Unsalvageable ____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☒
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? ____
2. Shippers' packing slip attached to the cooler(s)? Yes ☐ No ☒
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other ____
6. Cooler temperature upon receipt 3, 8 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐ ____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☒ No ☐ NA ☐
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM MJL Date 7/1/11 by TB via Verbal ☒ Voice Mail ☐ Other ☐
Concerning #14

14. CHAIN OF CUSTODY

The following discrepancies occurred:
Date + time of sampling not on COC, labels = 7/1/11 @ 1300 - will log add labels

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.
Sample(s) ____ were received in a broken container.
Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)? ____

Client ID	pH	Date	Initials
Equip Rinsate	<2	7/1/11	TB

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Login Sample Receipt Checklist

Client: Prudent Technologies, Inc

Job Number: 240-1653-1

Login Number: 1653

List Source: TestAmerica North Canton

List Number: 1

Creator: McFadden, John

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica North Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-1728-1
Client Project/Site: RVAAP

For:
Prudent Technologies, Inc
4242 Medical Drive
Suite 7250
San Antonio, Texas 78229

Attn: Ms. Amanda L. Miller

Authorized for release by:
09/26/2011 02:18:16 PM

Mark Loeb
Project Manager II
mark.loeb@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
Q	One or more quality control criteria failed.
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
J	Estimated: The analyte was positively identified; the quantitation is an estimation

GC/MS Semi VOA

Qualifier	Qualifier Description
M	Manual integrated compound.
U	Undetected at the Limit of Detection.
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
Q	One or more quality control criteria failed.
D	The reported value is from a dilution.
B	Blank contamination: The analyte was detected above one-half the reporting limit in an associated blank.

GC Semi VOA

Qualifier	Qualifier Description
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

HPLC

Qualifier	Qualifier Description
J	Estimated result. Result is less than RL.
PG	The percent difference between the original and confirmation analyses is greater than 40%.

Metals

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
B	Blank contamination: The analyte was detected above one-half the reporting limit in an associated blank.

General Chemistry

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J	Estimated result. Result is less than RL.
N	Spike sample recovery is outside control limits.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-1728-1

Laboratory: TestAmerica North Canton

Narrative

CASE NARRATIVE

Client: Prudent Technologies, Inc

Project: RVAAP

Report Number: 240-1728-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

TestAmerica utilizes USEPA approved methods and DOD QSM, where applicable, in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters for which TestAmerica North Canton has certification were evaluated to the limit of detection (LOD) and include qualified results where applicable. Parameters not certified under QSM, if any, were evaluated to the detection limit (DL) and include qualified results where applicable.

The sample(s) that contain constituents flagged with U are undetected. The result associated with this flag is the limit of detection (LOD).

RECEIPT

The samples were received on 07/06/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 0.6, 1.6, 2.8, 3.6 and 4.2 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples LL3SD-416V-0001-SD (240-1728-5), LL3SD-417V-0001-SD (240-1728-7), LL2SS-516V-0001-SO (240-1728-15), LL2SS-517V-0001-SO (240-1728-19), L12SS-300V-0001-SO (240-1728-21), L12SS-301V-0001-SO (240-1728-23), LL1SB-644V-0101-SO (240-1728-25), LL1SB-644V-0102-SO (240-1728-27), LL1SB-644V-0103-SO (240-1728-29), LL1SB-645V-0101-SO (240-1728-31), LL1SB-645V-0102-SO (240-1728-33) and LL1SB-645V-0103-SO (240-1728-35) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B DoD. The samples were analyzed on 07/12/2011 and 07/13/2011.

Methylene Chloride was detected in method blank MB 240-8123/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above

Job ID: 240-1728-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

the MDL and/or RL, the result has been "B" flagged. Methylene Chloride was detected in method blank MB 240-8134/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

4-Bromofluorobenzene (Surr) and Toluene-d8 (Surr) failed the surrogate recovery criteria low for samples LL2SS-516V-0001-SO (240-1728-15), LL2SS-517V-0001-SO (240-1728-19), L12SS-300V-0001-SO (240-1728-21), L12SS-301V-0001-SO (240-1728-23), LL1SB-644V-0101-SO (240-1728-25), LL1SB-644V-0102-SO (240-1728-27), LL1SB-644V-0103-SO (240-1728-29), LL1SB-645V-0101-SO (240-1728-31), LL1SB-645V-0102-SO (240-1728-33), LL1SB-645V-0103-SO (240-1728-35), LL3SD-416V-0001-SD (240-1728-5), LL3SD-417V-0001-SD (240-1728-7), and LL2SS-516V-0001-SOMS (240-1728-15MS). Refer to the QC report for details.

Insufficient sample volume was available to perform matrix spike/matrix spike duplicate (MS/MSD) for batch 8123 on these samples.

Surrogate recovery for the following samples was outside of acceptance limits: LL1SB-644V-0101-SO, LL1SB-644V-0102-SO, LL1SB-644V-0103-SO, LL1SB-645V-0101-SO, LL1SB-645V-0102-SO, LL1SB-645V-0103-SO, L12SS-300V-0001-SO, L12SS-301V-0001-SO. There was insufficient sample to perform a re-extraction; therefore, the data have been reported.

Surrogate recovery for the following sample was outside control limits: LL2SS-516V-0001-SO. Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported. The MS confirms the results.

Insufficient sample volume was provided to perform matrix spike/matrix spike duplicate (MS/MSD) for batch 8134 on these samples.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC MS)

Samples LL2SB-512M-0101-SO (240-1728-1), LL2SB-512M-0102-SO (240-1728-2), LL2SB-512M-0103-SO (240-1728-3), LL3SD-416M-0001-SD (240-1728-4), LL3SD-417M-0001-SD (240-1728-6), LL3SS-419M-0001-SO (240-1728-8), LL3SS-420M-0001-SO (240-1728-10), LL3SS-421M-0001-SO (240-1728-11), LL3SB-422M-0001-SO (240-1728-12), LL2SS-519M-0001-SO (240-1728-13), LL2SS-516M-0001-SO (240-1728-14), LL2SS-517M-0001-SO (240-1728-18), L12SS-300M-0001-SO (240-1728-20), L12SS-301M-0001-SO (240-1728-22), LL1SB-644M-0101-SO (240-1728-24), LL1SB-644M-0102-SO (240-1728-26), LL1SB-644M-0103-SO (240-1728-28), LL1SB-645M-0101-SO (240-1728-30), LL1SB-645M-0102-SO (240-1728-32), LL1SB-645M-0103-SO (240-1728-34), LL1SB-643M-0101-SO (240-1728-36), LL1SB-643M-0102-SO (240-1728-37), LL1SB-643M-0103-SO (240-1728-38), LL1SB-641M-0101-SO (240-1728-42), LL1SB-641M-0102-SO (240-1728-43), LL1SB-641M-0103-SO (240-1728-44), LL1SB-642M-0101-SO (240-1728-45), LL1SB-642M-0102-SO (240-1728-46) and LL1SB-642M-0103-SO (240-1728-47) were analyzed for semivolatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8270 DoD. The samples were leached on 07/08/2011, prepared on 07/13/2011, 07/14/2011 and 07/15/2011 and analyzed on 07/29/2011, 07/30/2011, 08/01/2011 and 08/08/2011.

Bis(2-ethylhexyl) phthalate was detected in method blank MB 240-8437/13-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

2-Fluorobiphenyl (Surr) and Nitrobenzene-d5 (Surr) failed the surrogate recovery criteria low for LL2SB-512M-0102-SO (240-1728-2).

2-Fluorobiphenyl (Surr) failed the surrogate recovery criteria low for LCS 240-8237/24-A. Refer to the QC report for details.

2,4,6-Tribromophenol (Surr) failed the surrogate recovery criteria low for samples LL1SB-644M-0102-SO (240-1728-26), LL1SB-645M-0102-SO (240-1728-32), LL1SB-641M-0102-SO (240-1728-43), LL1SB-641M-0103-SO (240-1728-44), LL3SS-419M-0001-SO (240-1728-8), and MB 240-8593/15-A.

1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol and Hexachlorobutadiene failed the recovery criteria low for LCS 240-8237/24-A. Refer to the QC report for details.

2,4,6-Trichlorophenol, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol and Pentachlorophenol failed the recovery criteria low for the MS and 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol and Pentachlorophenol failed the recovery criteria low for the MSD of sample LL2SS-516M-0001-SO(240-1728-14) in batch 240-10338. Fluoranthene failed the recovery criteria high in the MSD. The presence of the

Job ID: 240-1728-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

'4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount. Refer to the QC report for details.

Samples LL3SD-416M-0001-SD (240-1728-4)[20X], LL3SD-417M-0001-SD (240-1728-6)[7X], LL3SS-419M-0001-SO (240-1728-8)[2X], LL2SS-516M-0001-SO (240-1728-14)[4X], LL2SS-517M-0001-SO (240-1728-18)[4X], L12SS-300M-0001-SO (240-1728-20)[13X], L12SS-301M-0001-SO (240-1728-22)[20X], LL1SB-643M-0101-SO (240-1728-36)[4X], LL1SB-643M-0103-SO (240-1728-38)[10X] and LL1SB-642M-0101-SO (240-1728-45)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The following samples contained one acid surrogate outside acceptance limits: LL1SB-641M-0102-SO, LL1SB-641M-0103-SO, and LL3SS-419M-0001-SO and the Method Blank associated with QC Batch 8593. Because the target compound list for the samples was BN only no corrective action was required.

Surrogate recovery for the following sample(s) was outside of acceptance limits: LL2SB-512M-0102-SO, LL1SB-644M-0102-SO, LL1SB-645M-0102-SO. The associated LCS (prep batch 8237) also had several analyte recoveries below acceptance criteria. Due to the length of time elapsed since sampling no corrective action was initiated.

Method(s) 8270C/DoD: One BN surrogate recovery for the LCS associated with prep batch 8237 was outside of acceptance limits. The following samples are affected: L12SS-300M-0001-SO, L12SS-301M-0001-SO, LL1SB-643M-0101-SO, LL1SB-643M-0102-SO, LL1SB-643M-0103-SO, LL1SB-644M-0101-SO, LL1SB-644M-0102-SO, LL1SB-644M-0103-SO, LL1SB-645M-0101-SO, LL1SB-645M-0102-SO, LL1SB-645M-0103-SO, LL2SB-512M-0101-SO, LL2SB-512M-0102-SO, LL2SB-512M-0103-SO, LL2SS-517M-0001-SO, LL3SD-416M-0001-SD, LL3SD-417M-0001-SD, LL3SS-419M-0001-SO, LL3SS-420M-0001-SO, LL3SS-421M-0001-SO. Due to the length of time elapsed since sampling no corrective action was initiated. Due to the length of time elapsed since sampling no corrective action was initiated.

No other difficulties were encountered during the SVOCs analyses. All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample EQUIP RINSATE 2-1-11 (240-1728-48) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared and analyzed on .

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Bis(2-ethylhexyl) phthalate was detected in method blank MB 240-7492/3-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

2,4,6-Tribromophenol (Surr), 2-Fluorobiphenyl (Surr) and Terphenyl-d14 (Surr) failed the surrogate recovery criteria low for EQUIP RINSATE 2-1-11 (240-1728-48). Refer to the QC report for details.

Benzo[a]pyrene failed the recovery criteria low for LCS 240-7492/4-A. Refer to the QC report for details.

Surrogate recovery for the following sample(s) was outside control limits: EQUIP RINSATE 2-1-11. Due to the length of time elapsed since sampling no corrective action was initiated.

The method blank for prep batch 7492 had bis(2-ethylhexyl) phthalate contamination in excess of acceptance criteria. Also the LCS for this prep batch had benzo(a)pyrene recovery below acceptance criteria. No corrective action was initiated for the associated samples due to length of time elapsed since sampling.

No other difficulties were encountered during the SVOC analysis. All other quality control parameters were within the acceptance limits.

CHLORINATED PESTICIDES

Samples LL3SD-416M-0001-SD (240-1728-4), LL3SD-417M-0001-SD (240-1728-6), LL2SS-516M-0001-SO (240-1728-14), LL2SS-517M-0001-SO (240-1728-18), L12SS-300M-0001-SO (240-1728-20), L12SS-301M-0001-SO (240-1728-22), LL1SB-644M-0101-SO (240-1728-24), LL1SB-644M-0102-SO (240-1728-26), LL1SB-644M-0103-SO (240-1728-28), LL1SB-645M-0101-SO (240-1728-30), LL1SB-645M-0102-SO (240-1728-32) and LL1SB-645M-0103-SO (240-1728-34) were analyzed for

Job ID: 240-1728-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

chlorinated pesticides in accordance with EPA SW-846 Method 8081A DoD. The samples were leached on 07/08/2011, prepared on 07/13/2011 and 07/15/2011 and analyzed on 07/31/2011, 08/02/2011 and 08/04/2011.

DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria high for LL2SS-516M-0001-SO (240-1728-14).

DCB Decachlorobiphenyl failed the surrogate recovery criteria low for LL2SS-517M-0001-SO (240-1728-18), L12SS-300M-0001-SO (240-1728-20), LL3SD-417M-0001-SD (240-1728-6), LL1SB-645M-0103-SOMS (240-1728-34MS), LL1SB-645M-0103-SOMSD (240-1728-34MSD), and L12SS-301M-0001-SO (240-1728-22). For the same samples Tetrachloro-m-xylene failed the surrogate recovery criteria high.

Tetrachloro-m-xylene failed the surrogate recovery criteria high for samples LL1SB-644M-0101-SO (240-1728-24), LL1SB-644M-0102-SO (240-1728-26), LCS 240-8260/14-A, and LL1SB-645M-0102-SO (240-1728-32).

DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria high for samples LL1SB-645M-0101-SO (240-1728-30), LL1SB-645M-0103-SO (240-1728-34), LL3SD-416M-0001-SD (240-1728-4), LL2SS-516M-0001-SOMS (240-1728-14MS), and LL2SS-516M-0001-SOMSD (240-1728-14MSD).

alpha-BHC and gamma-BHC (Lindane) failed the recovery criteria high for LCS 240-8260/14-A. Refer to the QC report for details.

Several analytes failed the recovery criteria high for the MS of sample LL2SS-516M-0001-SOMS (240-1728-14) in batch 240-10598.

For the MSD of sample LL2SS-516M-0001-SOMSD (240-1728-14) in batch 240-10598, Heptachlor and Heptachlor epoxide failed the recovery criteria low. Several analytes failed the recovery criteria high. Also, Heptachlor and Heptachlor epoxide exceeded the rpd limit.

Several analytes failed the recovery criteria low for the MS of sample LL1SB-645M-0103-SOMS (240-1728-34) in batch 240-10329. gamma-Chlordane failed the recovery criteria high.

For the MSD of sample LL1SB-645M-0103-SOMSD (240-1728-34) in batch 240-10329, Several analytes failed the recovery criteria low. Dieldrin, Endrin ketone and gamma-Chlordane failed the recovery criteria high. Also, alpha-BHC, Endosulfan I and Endrin exceeded the rpd limit.

Samples LL3SD-416M-0001-SD (240-1728-4)[50X], LL3SD-417M-0001-SD (240-1728-6)[50X], LL2SS-516M-0001-SO (240-1728-14) [20X], LL2SS-517M-0001-SO (240-1728-18)[50X], L12SS-300M-0001-SO (240-1728-20)[50X], L12SS-301M-0001-SO (240-1728-22)[50X], LL1SB-644M-0101-SO (240-1728-24)[5X], LL1SB-644M-0102-SO (240-1728-26)[20X], LL1SB-644M-0103-SO (240-1728-28)[5X], LL1SB-645M-0101-SO (240-1728-30)[5X], LL1SB-645M-0102-SO (240-1728-32)[20X] and LL1SB-645M-0103-SO (240-1728-34)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The closing continuing calibration verification (CCV) for alpha, gamma, beta and delta-BHCs, Heptachlor, Aldrin, Heptachlor Epoxide, gamma and alpha Chlordane, Endosulfan 1 and DDD recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. L12SS-300M-0001-SO, L12SS-301M-0001-SO, LL1SB-644M-0101-SO, LL2SS-517M-0001-SO, LL3SD-417M-0001-SD

The opening and closing continuing calibration verification (CCV) for alpha, beta, gamma and delta-BHCs, Heptachlor, Aldrin, Heptachlor Epoxide, gamma and alpha Chlordane, Endosulfan 1 and DDD recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. LL1SB-645M-0101-SO, LL1SB-645M-0103-SO

In the initial calibration for the associated samples (LL2SS-516M-0001-SO), the level 6 peak for alpha-BHC was disabled because of matrix interference and the alpha-BHC second source (ICV) failed QC criteria on the rear column only. The front column is used as the primary column. Due to TALS limitations, the E flag associated with alpha-BHC in the batch laboratory control sample (LCS) can not be removed but the result was within the ICAL range on the primary column and is acceptable.

The Laboratory Control Sample (LCS), matrix spike (MS), and matrix spike duplicate (MSD) associated with batch 8605 was double spiked. The amount spiked was adjusted to reflect the actual concentration. Therefore the data is acceptable and reported.

Job ID: 240-1728-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

The closing Technical Chlordane continuing calibration verification (CCV) was recovered above the upper control limit. The samples associated with this CCV LL2SS-516M-0001-SOwere not detected for Technical Chlordane above the reporting limit; therefore the data have been reported.

The closing continuing calibration verification (CCV) was recovered above the upper control limit. The samples associated with this CCVLL1SB-644M-0102-SO, LL1SB-644M-0103-SO, LL1SB-645M-0102-SO, LL3SD-416M-0001-SD were not detected above the reporting limit for the affected analyte; therefore, the data have been reported.

The associated samples LL1SB-644M-0102-SO, LL1SB-644M-0103-SO, LL1SB-645M-0102-SO have apparent hits of a PCB arochlor which may result in some false positive pesticide concentrations.

In the initial calibration for the associated samplesLL1SB-644M-0102-SO, LL1SB-644M-0103-SO, LL1SB-645M-0102-SO, LL3SD-416M-0001-SD the level 6 peak for alpha-BHC was disabled because of matrix interference and the alpha-BHC second source (ICV) failed QC criteria on the rear column only. The front column is used as the primary column.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 8260 exceeded control limits for the following analytes: alpha-BHC and gamma-BHC (Lindane). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No other difficulties were encountered during the pesticides analyses. All other quality control parameters were within the acceptance limits.

CHLORINATED PESTICIDES

Sample EQUIP RINSATE 2-1-11 (240-1728-48) was analyzed for chlorinated pesticides in accordance with EPA SW-846 Method 8081A DoD. The samples were prepared and analyzed on .

Method(s) 8081/DOD: The opening continuing calibration verification (CCV) recovered alpha-BHC above the upper control limit. The samples associated with this CCVEQUIP RINSATE 2-1-11 were not detected above the reporting limit for alpha-BHC; therefore,the data have been reported.

The closing Toxaphene continuing calibration verification (CCV) was recovered below the lower control limit. The samples associated with this CCV EQUIP RINSATE 2-1-11 was not detected for Toxaphene; therefore the data have been reported

Endosulfan I is reported from the confirmation column for batch 7787 laboratory control sample (LCS).

Method(s) 3520C: Insufficient sample volume was provided to perform matrix spike/matrix spike duplicate (MS/MSD) for batch 7787.

No other difficulties were encountered during the pesticides analysis. All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples LL3SD-416M-0001-SD (240-1728-4), LL3SD-417M-0001-SD (240-1728-6), LL2SS-519M-0001-SO (240-1728-13), LL2SS-516M-0001-SO (240-1728-14), LL2SS-517M-0001-SO (240-1728-18), L12SS-300M-0001-SO (240-1728-20), L12SS-301M-0001-SO (240-1728-22), LL1SB-644M-0101-SO (240-1728-24), LL1SB-644M-0102-SO (240-1728-26), LL1SB-644M-0103-SO (240-1728-28), LL1SB-645M-0101-SO (240-1728-30), LL1SB-645M-0102-SO (240-1728-32) and LL1SB-645M-0103-SO (240-1728-34) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082 DOD. The samples were leached on 07/08/2011, prepared on 07/13/2011 and 07/15/2011 and analyzed on 07/20/2011, 07/22/2011 and 07/23/2011.

DCB Decachlorobiphenyl failed the surrogate recovery criteria high for LL2SS-519M-0001-SO (240-1728-13). DCB Decachlorobiphenyl failed the surrogate recovery criteria high for LL2SS-516M-0001-SO (240-1728-14). DCB Decachlorobiphenyl failed the surrogate recovery criteria high for L12SS-300M-0001-SO (240-1728-20). DCB Decachlorobiphenyl failed the surrogate recovery criteria high for L12SS-301M-0001-SO (240-1728-22). DCB Decachlorobiphenyl failed the surrogate recovery criteria high for LL1SB-644M-0101-SO (240-1728-24). DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria low for LL1SB-644M-0102-SO (240-1728-26). DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria low for LL1SB-644M-0103-SO (240-1728-28). DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria low for LL1SB-645M-0102-SO

Job ID: 240-1728-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

(240-1728-32). DCB Decachlorobiphenyl failed the surrogate recovery criteria high for LL3SD-416M-0001-SD (240-1728-4). DCB Decachlorobiphenyl failed the surrogate recovery criteria high for LL3SD-417M-0001-SD (240-1728-6). DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria low for LL1SB-645M-0102-SOMS (240-1728-32MS). DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria low for LL1SB-645M-0102-SOMSD (240-1728-32MSD). Refer to the QC report for details.

Aroclor 1260 failed the recovery criteria high for the MS of sample LL2SS-516M-0001-SOMS (240-1728-14) in batch 240-9453.

Aroclor 1260 failed the recovery criteria high for the MSD of sample LL2SS-516M-0001-SOMSD (240-1728-14) in batch 240-9453.

Aroclor 1016 and Aroclor 1260 failed the recovery criteria low for the MS of sample LL1SB-645M-0102-SOMS (240-1728-32) in batch 240-9463.

Aroclor 1016 and Aroclor 1260 failed the recovery criteria low for the MSD of sample LL1SB-645M-0102-SOMSD (240-1728-32) in batch 240-9463.

Refer to the QC report for details.

Samples LL2SS-519M-0001-SO (240-1728-13)[5X], LL2SS-516M-0001-SO (240-1728-14)[5X], L12SS-300M-0001-SO (240-1728-20)[5X], L12SS-301M-0001-SO (240-1728-22)[5X], LL1SB-644M-0101-SO (240-1728-24)[5X], LL1SB-644M-0102-SO (240-1728-26)[50X], LL1SB-644M-0103-SO (240-1728-28)[10X], LL1SB-645M-0101-SO (240-1728-30)[5X] and LL1SB-645M-0102-SO (240-1728-32)[100X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Two surrogates are used for this analysis. The laboratory's SOP allows 1 of 2 of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: LL3SD-417M-0001-SD and LL3SD-416M-0001-SD. These results have been reported and qualified.

The following sample(s) appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: LL3SD-417M-0001-SD. The sample has been quantified and reported as Aroclor 1254. Due to the poor match with the Aroclor standard(s), there is increased qualitative and quantitative uncertainty associated with this result.

The following sample appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: LL2SS-517M-0001-SO. The sample(s) has been quantified and reported as Aroclor 1254. Due to the poor match with the Aroclor standard(s), there is increased qualitative and quantitative uncertainty associated with this result.

The following sample appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: L12SS-301M-0001-SO. The sample has been quantified and reported as Aroclor 1260. Due to the poor match with the Aroclor standard(s), there is increased qualitative and quantitative uncertainty associated with this result.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: LL1SB-644M-0102-SO, LL1SB-644M-0103-SO, LL1SB-645M-0101-SO, LL1SB-645M-0102-SO, LL1SB-645M-0103-SO, and LL2SS-516M-0001-SO, LL2SS-519M-0001-SO.

The following sample appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: LL2SS-519M-0001-SO. The sample has been quantified and reported as a mixture of Aroclors. Due to the poor match with the Aroclor standards, there is increased qualitative and quantitative uncertainty associated with this result.

No other difficulties were encountered during the PCBs analyses. All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample EQUIP RINSATE 2-1-11 (240-1728-48) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846

Job ID: 240-1728-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

Method 8082 DOD. The samples were prepared and analyzed on .

Surrogate recovery for the LCS in batch 7786 was outside control limits. Re-extraction and/or re-analysis was performed with similar results. Insufficient sample volume remained for further corrective action. The original analysis has been reported. EQUIP RINSATE 2-1-11

Insufficient sample volume was available to perform matrix spike/matrix spike duplicate (MS/MSD) for batche 7786 and batch 9070.

No other difficulties were encountered during the PCBs analysis. All quality control parameters were within the acceptance limits.

TOTAL METALS (ICPMS)

Samples LL3SD-416M-0001-SD (240-1728-4), LL3SD-417M-0001-SD (240-1728-6), LL2SS-516M-0001-SO (240-1728-14), LL2SS-517M-0001-SO (240-1728-18), L12SS-300M-0001-SO (240-1728-20), L12SS-301M-0001-SO (240-1728-22), LL1SB-644M-0101-SO (240-1728-24), LL1SB-644M-0102-SO (240-1728-26), LL1SB-644M-0103-SO (240-1728-28), LL1SB-645M-0101-SO (240-1728-30), LL1SB-645M-0102-SO (240-1728-32) and LL1SB-645M-0103-SO (240-1728-34) were analyzed for total metals (ICPMS) in accordance with EPA SW-846 Method 6020 DoD. The samples were leached on 07/08/2011, prepared on 07/15/2011, 07/19/2011 and 09/01/2011 and analyzed on 08/25/2011, 08/29/2011 and 09/08/2011.

Aluminum was detected in method blank MB 240-14048/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged.

Nickel was detected in method blank MB 240-8611/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged.

Barium and Zinc were detected in method blank MB 240-8922/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

Barium, Manganese and Zinc failed the recovery criteria low for the MS and Manganese and Zinc failed the recovery criteria low for the MSD of sample LL2SS-516M-0001-SO (240-1728-14) in batch 240-14738. Aluminum, Calcium and Iron failed the recovery criteria high for the MS and Aluminum and Iron failed the recovery criteria high for the MSD.

Iron and Zinc failed the recovery criteria low for the MS and Calcium, Iron and Zinc failed the recovery criteria low for the MSD of sample LL1SB-645M-0101-SO (240-1728-30) in batch 240-13699. Calcium failed the recovery criteria high for the MS. Refer to the QC report for details.

Samples LL3SD-416M-0001-SD (240-1728-4)[10X], LL3SD-417M-0001-SD (240-1728-6)[10X], LL2SS-516M-0001-SO (240-1728-14)[5X], LL2SS-517M-0001-SO (240-1728-18)[10X], L12SS-300M-0001-SO (240-1728-20)[10X], L12SS-301M-0001-SO (240-1728-22)[10X], LL1SB-644M-0101-SO (240-1728-24)[5X], LL1SB-644M-0102-SO (240-1728-26)[10X], LL1SB-644M-0103-SO (240-1728-28)[5X], LL1SB-645M-0101-SO (240-1728-30)[5X], LL1SB-645M-0102-SO (240-1728-32)[5X] and LL1SB-645M-0103-SO (240-1728-34)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

TOTAL RECOVERABLE METALS (ICPMS)

Sample EQUIP RINSATE 2-1-11 (240-1728-48) was analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020 DoD. The samples were prepared and analyzed on .

ICB, CCB, and ICSA samples are evaluated using the lowest LOD and DL criteria in LIMS. Using this criteria, an individual element may occasionally be flagged as out of control. If the element has a higher LOD or DL, the data is evaluated to the higher limit and determined to be acceptable.

Zinc was detected in method blank MB 240-10075/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

Job ID: 240-1728-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

No other difficulties were encountered during the metals analysis. All other quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM (WATER)

Sample EQUIP RINSATE 2-1-11 (240-1728-48) was analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were prepared and analyzed on .

No difficulties were encountered during the hexavalent chromium analysis. All quality control parameters were within the acceptance limits.

TOTAL MERCURY - DOD

Sample EQUIP RINSATE 2-1-11 (240-1728-48) was analyzed for Total Mercury - DOD in accordance with EPA SW-846 Method 7470A. The samples were prepared and analyzed on .

No difficulties were encountered during the mercury analysis. All quality control parameters were within the acceptance limits.

MERCURY

Samples LL3SD-416M-0001-SD (240-1728-4), LL3SD-417M-0001-SD (240-1728-6), LL2SS-516M-0001-SO (240-1728-14), LL2SS-517M-0001-SO (240-1728-18), L12SS-300M-0001-SO (240-1728-20), L12SS-301M-0001-SO (240-1728-22), LL1SB-644M-0101-SO (240-1728-24), LL1SB-644M-0102-SO (240-1728-26), LL1SB-644M-0103-SO (240-1728-28), LL1SB-645M-0101-SO (240-1728-30), LL1SB-645M-0102-SO (240-1728-32) and LL1SB-645M-0103-SO (240-1728-34) were analyzed for Mercury in accordance with EPA SW-846 7471A DOD. The samples were leached on 07/08/2011, prepared on 07/15/2011 and 07/19/2011 and analyzed on 07/18/2011 and 07/22/2011.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM

Samples LL3SD-416M-0001-SD (240-1728-4), LL3SD-417M-0001-SD (240-1728-6), LL2SS-516M-0001-SO (240-1728-14), LL2SS-517M-0001-SO (240-1728-18), L12SS-300M-0001-SO (240-1728-20), L12SS-301M-0001-SO (240-1728-22), LL1SB-644M-0101-SO (240-1728-24), LL1SB-644M-0102-SO (240-1728-26), LL1SB-644M-0103-SO (240-1728-28), LL1SB-645M-0101-SO (240-1728-30), LL1SB-645M-0102-SO (240-1728-32) and LL1SB-645M-0103-SO (240-1728-34) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were leached on 07/08/2011, prepared on 07/18/2011 and analyzed on 07/20/2011.

No difficulties were encountered during the hexavalent chromium analyses. All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples LL2SB-512M-0101-SO (240-1728-1), LL2SB-512M-0102-SO (240-1728-2), LL2SB-512M-0103-SO (240-1728-3), LL3SD-416M-0001-SD (240-1728-4), LL3SD-416V-0001-SD (240-1728-5), LL3SD-417M-0001-SD (240-1728-6), LL3SD-417V-0001-SD (240-1728-7), LL3SS-419M-0001-SO (240-1728-8), LL3SS-420M-0001-SO (240-1728-10), LL3SS-421M-0001-SO (240-1728-11), LL3SB-422M-0001-SO (240-1728-12), LL2SS-519M-0001-SO (240-1728-13), LL2SS-516M-0001-SO (240-1728-14), LL2SS-516V-0001-SO (240-1728-15), LL2SS-517M-0001-SO (240-1728-18), LL2SS-517V-0001-SO (240-1728-19), L12SS-300M-0001-SO (240-1728-20), L12SS-300V-0001-SO (240-1728-21), L12SS-301M-000

Method Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1728-1

Method	Method Description	Protocol	Laboratory
8260B/DoD	Volatile Organic Compounds (GC/MS)	SW846	TAL NC
8270C/DoD	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NC
8081/DOD	Organochlorine Pesticides (GC)	SW846	TAL NC
8082/DOD	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL NC
8330 (Modified)	Organic Compounds by UV/HPLC	SW846	TAL WSC
8330/8330A	Nitroaromatics & Nitramines: Explosives (8330/A)	SW846	TAL WSC
6020/DOD	Metals (ICP/MS)	SW846	TAL NC
7470A/DOD	Mercury (CVAA)	SW846	TAL NC
7471/DOD	Mercury (CVAA)	SW846	TAL NC
7196A	Chromium, Hexavalent	SW846	TAL NC
D 2216-90	Moisture, Percent (D2216-90) - AFCEE	ASTM	TAL WSC
Moisture	Percent Moisture	EPA	TAL NC
WS-WC-0050	Nitrocellulose as N by WS-WC-0050	TAL-SOP	TAL WSC

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-SOP = TAL-SOP

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1728-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-1728-1	LL2SB-512M-0101-SO	Solid	07/01/11 15:50	07/06/11 13:15
240-1728-2	LL2SB-512M-0102-SO	Solid	07/01/11 15:50	07/06/11 13:15
240-1728-3	LL2SB-512M-0103-SO	Solid	07/01/11 15:50	07/06/11 13:15
240-1728-4	LL3SD-416M-0001-SD	Solid	07/02/11 08:50	07/06/11 13:15
240-1728-5	LL3SD-416V-0001-SD	Solid	07/02/11 08:50	07/06/11 13:15
240-1728-6	LL3SD-417M-0001-SD	Solid	07/02/11 08:50	07/06/11 13:15
240-1728-7	LL3SD-417V-0001-SD	Solid	07/02/11 08:50	07/06/11 13:15
240-1728-8	LL3SS-419M-0001-SO	Solid	07/02/11 12:30	07/06/11 13:15
240-1728-10	LL3SS-420M-0001-SO	Solid	07/02/11 12:30	07/06/11 13:15
240-1728-11	LL3SS-421M-0001-SO	Solid	07/02/11 15:00	07/06/11 13:15
240-1728-12	LL3SB-422M-0001-SO	Solid	07/02/11 15:00	07/06/11 13:15
240-1728-13	LL2SS-519M-0001-SO	Solid	07/02/11 16:15	07/06/11 13:15
240-1728-14	LL2SS-516M-0001-SO	Solid	07/03/11 09:45	07/06/11 13:15
240-1728-15	LL2SS-516V-0001-SO	Solid	07/03/11 09:50	07/06/11 13:15
240-1728-18	LL2SS-517M-0001-SO	Solid	07/03/11 09:45	07/06/11 13:15
240-1728-19	LL2SS-517V-0001-SO	Solid	07/03/11 09:50	07/06/11 13:15
240-1728-20	L12SS-300M-0001-SO	Solid	07/03/11 11:15	07/06/11 13:15
240-1728-21	L12SS-300V-0001-SO	Solid	07/03/11 11:20	07/06/11 13:15
240-1728-22	L12SS-301M-0001-SO	Solid	07/03/11 11:15	07/06/11 13:15
240-1728-23	L12SS-301V-0001-SO	Solid	07/03/11 11:20	07/06/11 13:15
240-1728-24	LL1SB-644M-0101-SO	Solid	07/05/11 11:00	07/06/11 13:15
240-1728-25	LL1SB-644V-0101-SO	Solid	07/05/11 11:09	07/06/11 13:15
240-1728-26	LL1SB-644M-0102-SO	Solid	07/05/11 10:57	07/06/11 13:15
240-1728-27	LL1SB-644V-0102-SO	Solid	07/05/11 11:12	07/06/11 13:15
240-1728-28	LL1SB-644M-0103-SO	Solid	07/05/11 11:07	07/06/11 13:15
240-1728-29	LL1SB-644V-0103-SO	Solid	07/05/11 11:13	07/06/11 13:15
240-1728-30	LL1SB-645M-0101-SO	Solid	07/05/11 11:06	07/06/11 13:15
240-1728-31	LL1SB-645V-0101-SO	Solid	07/05/11 11:10	07/06/11 13:15
240-1728-32	LL1SB-645M-0102-SO	Solid	07/05/11 11:07	07/06/11 13:15
240-1728-33	LL1SB-645V-0102-SO	Solid	07/05/11 11:14	07/06/11 13:15
240-1728-34	LL1SB-645M-0103-SO	Solid	07/05/11 11:01	07/06/11 13:15
240-1728-35	LL1SB-645V-0103-SO	Solid	07/05/11 11:17	07/06/11 13:15
240-1728-36	LL1SB-643M-0101-SO	Solid	07/05/11 14:45	07/06/11 13:15
240-1728-37	LL1SB-643M-0102-SO	Solid	07/05/11 14:45	07/06/11 13:15
240-1728-38	LL1SB-643M-0103-SO	Solid	07/05/11 14:47	07/06/11 13:15
240-1728-39	LL1SB-640M-0101-SO	Solid	07/05/11 16:15	07/06/11 13:15
240-1728-40	LL1SB-640M-0102-SO	Solid	07/05/11 16:14	07/06/11 13:15
240-1728-41	LL1SB-640M-0103-SO	Solid	07/05/11 16:12	07/06/11 13:15
240-1728-42	LL1SB-641M-0101-SO	Solid	07/06/11 09:30	07/06/11 13:15
240-1728-43	LL1SB-641M-0102-SO	Solid	07/06/11 09:37	07/06/11 13:15
240-1728-44	LL1SB-641M-0103-SO	Solid	07/06/11 09:40	07/06/11 13:15
240-1728-45	LL1SB-642M-0101-SO	Solid	07/06/11 10:40	07/06/11 13:15
240-1728-46	LL1SB-642M-0102-SO	Solid	07/06/11 10:40	07/06/11 13:15
240-1728-47	LL1SB-642M-0103-SO	Solid	07/06/11 10:40	07/06/11 13:15
240-1728-48	EQUIP RINSATE 2-1-11	Water	07/06/11 09:00	07/06/11 13:15

Detection Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1728-1

Client Sample ID: LL2SB-512M-0101-SO — Lab Sample ID: 240-1728-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	8.5		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Acenaphthylene	25		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Anthracene	32		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	130		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	160		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	190	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	84		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	76	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	120		6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	22	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	220		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluorene	13		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	80		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Naphthalene	7.9		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	200		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	100		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL2SB-512M-0102-SO — Lab Sample ID: 240-1728-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	11		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	6.9		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	11		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL2SB-512M-0103-SO — Lab Sample ID: 240-1728-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	7.9		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	7.1		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	10		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	9.4	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	7.7		6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	14		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	11		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	14		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL3SD-416M-0001-SD — Lab Sample ID: 240-1728-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	360	D	140	67	ug/Kg	20	☼	8270C/DoD	Total/NA
Acenaphthylene	1600	D	140	67	ug/Kg	20	☼	8270C/DoD	Total/NA
Anthracene	3100	D	140	67	ug/Kg	20	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	8600	D	140	67	ug/Kg	20	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	9100	D M	140	67	ug/Kg	20	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	5000	D M	140	67	ug/Kg	20	☼	8270C/DoD	Total/NA
Fluoranthene	19000	D	140	67	ug/Kg	20	☼	8270C/DoD	Total/NA
Fluorene	1000	D	140	67	ug/Kg	20	☼	8270C/DoD	Total/NA
Chrysene	8200	D	140	22	ug/Kg	20	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	1200	D	140	67	ug/Kg	20	☼	8270C/DoD	Total/NA
Dibenzofuran	550	J D	1000	67	ug/Kg	20	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	4200	D	140	67	ug/Kg	20	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	6800	D	140	67	ug/Kg	20	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	4100	D	140	67	ug/Kg	20	☼	8270C/DoD	Total/NA
Naphthalene	170	D	140	67	ug/Kg	20	☼	8270C/DoD	Total/NA

Client Sample ID: LL3SD-416M-0001-SD (Continued) — Lab Sample ID: 240-1728-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	13000	D	140	67	ug/Kg	20	☼	8270C/DoD	Total/NA
Phenanthrene	9200	D	140	67	ug/Kg	20	☼	8270C/DoD	Total/NA
Carbazole	1100	D	1000	550	ug/Kg	20	☼	8270C/DoD	Total/NA
beta-BHC	130	J D	180	56	ug/Kg	50	☼	8081/DOD	Total/NA
Aroclor 1254	44	J	56	17	ug/Kg	1	☼	8082/DOD	Total/NA
Aluminum	10000	D	86	22	mg/Kg	10	☼	6020/DOD	Total/NA
Antimony	1.4		0.17	0.054	mg/Kg	1	☼	6020/DOD	Total/NA
Arsenic	14		0.43	0.045	mg/Kg	1	☼	6020/DOD	Total/NA
Barium	150		0.43	0.11	mg/Kg	1	☼	6020/DOD	Total/NA
Beryllium	1.3	D	0.86	0.030	mg/Kg	10	☼	6020/DOD	Total/NA
Cadmium	1.0	J D	1.7	0.027	mg/Kg	10	☼	6020/DOD	Total/NA
Calcium	15000	D	1700	350	mg/Kg	10	☼	6020/DOD	Total/NA
Chromium	26		0.43	0.14	mg/Kg	1	☼	6020/DOD	Total/NA
Cobalt	21	D	0.86	0.039	mg/Kg	10	☼	6020/DOD	Total/NA
Copper	9.6		0.35	0.095	mg/Kg	1	☼	6020/DOD	Total/NA
Iron	24000		43	9.4	mg/Kg	1	☼	6020/DOD	Total/NA
Lead	23		0.26	0.061	mg/Kg	1	☼	6020/DOD	Total/NA
Magnesium	3400		86	7.7	mg/Kg	1	☼	6020/DOD	Total/NA
Manganese	3700	D	4.3	1.4	mg/Kg	10	☼	6020/DOD	Total/NA
Nickel	28		0.43	0.075	mg/Kg	1	☼	6020/DOD	Total/NA
Potassium	730		86	3.3	mg/Kg	1	☼	6020/DOD	Total/NA
Selenium	1.1		0.43	0.018	mg/Kg	1	☼	6020/DOD	Total/NA
Sodium	110		86	12	mg/Kg	1	☼	6020/DOD	Total/NA
Thallium	0.16	J	0.17	0.049	mg/Kg	1	☼	6020/DOD	Total/NA
Vanadium	23		0.43	0.037	mg/Kg	1	☼	6020/DOD	Total/NA
Zinc	160	D	35	8.6	mg/Kg	10	☼	6020/DOD	Total/NA
Mercury	0.30		0.085	0.012	mg/Kg	1	☼	7471/DOD	Total/NA
Hexavalent chromium	0.46	J	0.82	0.28	mg/Kg	1	☼	7196A	Total/NA

Analyte	Result	Qualifier	LOQ	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trinitrobenzene	0.031	J PG	0.25	0.020	mg/kg	0.99		8330/8330A	Total
2,4,6-Trinitrotoluene	0.32		0.25	0.020	mg/kg	0.99		8330/8330A	Total
Nitrobenzene	0.11	J PG	0.25	0.050	mg/kg	0.99		8330/8330A	Total
Tetryl	0.12	J PG	0.25	0.050	mg/kg	0.99		8330/8330A	Total
Nitrocellulose	1.4	J	5.1	0.80	mg/kg	1	☼	WS-WC-0050	Total

Client Sample ID: LL3SD-416V-0001-SD — Lab Sample ID: 240-1728-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	42	J	230	11	ug/Kg	1	☼	8260B/DoD	Total/NA
Methylene Chloride	150	J	230	72	ug/Kg	1	☼	8260B/DoD	Total/NA

Client Sample ID: LL3SD-417M-0001-SD — Lab Sample ID: 240-1728-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	130	D	45	22	ug/Kg	6.667	☼	8270C/DoD	Total/NA
Acenaphthylene	550	D	45	22	ug/Kg	6.667	☼	8270C/DoD	Total/NA
Anthracene	1000	D	45	22	ug/Kg	6.667	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	2900	D	45	22	ug/Kg	6.667	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	3100	D M	45	22	ug/Kg	6.667	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	1900	D M	45	22	ug/Kg	6.667	☼	8270C/DoD	Total/NA
Fluoranthene	5500	D	45	22	ug/Kg	6.667	☼	8270C/DoD	Total/NA
Fluorene	320	D M	45	22	ug/Kg	6.667	☼	8270C/DoD	Total/NA
Chrysene	2500	D	45	7.5	ug/Kg	6.667	☼	8270C/DoD	Total/NA

Client Sample ID: LL3SD-417M-0001-SD (Continued)

Lab Sample ID: 240-1728-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	590	D	45	22	ug/Kg	6.667	☼	8270C/DoD	Total/NA
Dibenzofuran	200	J D	340	22	ug/Kg	6.667	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	1500	D	45	22	ug/Kg	6.667	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	2500	D	45	22	ug/Kg	6.667	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	1500	D	45	22	ug/Kg	6.667	☼	8270C/DoD	Total/NA
2-Methylnaphthalene	88	D	45	22	ug/Kg	6.667	☼	8270C/DoD	Total/NA
Naphthalene	74	D	45	22	ug/Kg	6.667	☼	8270C/DoD	Total/NA
Pyrene	4000	D	45	22	ug/Kg	6.667	☼	8270C/DoD	Total/NA
Phenanthrene	2800	D	45	22	ug/Kg	6.667	☼	8270C/DoD	Total/NA
Carbazole	400	D	340	180	ug/Kg	6.667	☼	8270C/DoD	Total/NA
beta-BHC	130	J D Q	180	56	ug/Kg	50	☼	8081/DOD	Total/NA
Aroclor 1254	86		56	17	ug/Kg	1	☼	8082/DOD	Total/NA
Aluminum	9400	D	99	25	mg/Kg	10	☼	6020/DOD	Total/NA
Antimony	1.5		0.20	0.061	mg/Kg	1	☼	6020/DOD	Total/NA
Arsenic	13		0.50	0.052	mg/Kg	1	☼	6020/DOD	Total/NA
Barium	130		0.50	0.13	mg/Kg	1	☼	6020/DOD	Total/NA
Beryllium	1.2	D	0.99	0.035	mg/Kg	10	☼	6020/DOD	Total/NA
Cadmium	1.1	J D	2.0	0.031	mg/Kg	10	☼	6020/DOD	Total/NA
Calcium	9800		200	40	mg/Kg	1	☼	6020/DOD	Total/NA
Chromium	31		0.50	0.16	mg/Kg	1	☼	6020/DOD	Total/NA
Cobalt	19	D	0.99	0.045	mg/Kg	10	☼	6020/DOD	Total/NA
Copper	10		0.40	0.11	mg/Kg	1	☼	6020/DOD	Total/NA
Iron	25000		50	11	mg/Kg	1	☼	6020/DOD	Total/NA
Lead	22		0.30	0.070	mg/Kg	1	☼	6020/DOD	Total/NA
Magnesium	2400		99	8.8	mg/Kg	1	☼	6020/DOD	Total/NA
Manganese	3400	D	5.0	1.6	mg/Kg	10	☼	6020/DOD	Total/NA
Nickel	30		0.50	0.086	mg/Kg	1	☼	6020/DOD	Total/NA
Potassium	670		99	3.7	mg/Kg	1	☼	6020/DOD	Total/NA
Selenium	1.1		0.50	0.021	mg/Kg	1	☼	6020/DOD	Total/NA
Sodium	69	J	99	14	mg/Kg	1	☼	6020/DOD	Total/NA
Thallium	0.13	J	0.20	0.056	mg/Kg	1	☼	6020/DOD	Total/NA
Vanadium	23		0.50	0.043	mg/Kg	1	☼	6020/DOD	Total/NA
Zinc	170	D	40	9.9	mg/Kg	10	☼	6020/DOD	Total/NA
Mercury	0.33		0.080	0.011	mg/Kg	1	☼	7471/DOD	Total/NA
Hexavalent chromium	0.45	J	0.82	0.28	mg/Kg	1	☼	7196A	Total/NA

Analyte	Result	Qualifier	LOQ	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4,6-Trinitrotoluene	0.27		0.24	0.019	mg/kg	0.96		8330/8330A	Total
Nitrocellulose	1.4	J	5.2	0.81	mg/kg	1	☼	WS-WC-0050	Total

Client Sample ID: LL3SD-417V-0001-SD

Lab Sample ID: 240-1728-7

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	38	J	210	10	ug/Kg	1	☼	8260B/DoD	Total/NA
Ethylbenzene	23	J	210	4.5	ug/Kg	1	☼	8260B/DoD	Total/NA
Methylene Chloride	130	J	210	64	ug/Kg	1	☼	8260B/DoD	Total/NA
Toluene	51	J	210	14	ug/Kg	1	☼	8260B/DoD	Total/NA
Xylenes (total)	220	J	410	6.7	ug/Kg	1	☼	8260B/DoD	Total/NA

Client Sample ID: LL3SS-419M-0001-SO

Lab Sample ID: 240-1728-8

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	100		13	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Anthracene	300	J	13	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA

Client Sample ID: LL3SS-419M-0001-SO (Continued) — Lab Sample ID: 240-1728-8

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	480	J	13	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	400	J	13	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	440	M J	13	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	250	J	13	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	290	M J	13	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Chrysene	470	J	13	2.2	ug/Kg	2	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	56		13	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Fluoranthene	1200	J	13	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Fluorene	120	J	13	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	220	J	13	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Naphthalene	79		13	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Pyrene	930	J	13	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA
Phenanthrene	990	J	13	6.7	ug/Kg	2	☼	8270C/DoD	Total/NA

Client Sample ID: LL3SS-420M-0001-SO — Lab Sample ID: 240-1728-10

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	9.3		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Acenaphthylene	9.4		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Anthracene	24		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	78		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	70		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	99	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	50		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	51	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	79		6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	8.8		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	160		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluorene	12		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	46		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Naphthalene	12		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	130		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	100		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL3SS-421M-0001-SO — Lab Sample ID: 240-1728-11

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	12		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Acenaphthylene	78		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Anthracene	54		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	250		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	260		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	400	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	190		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	240	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	280		6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	60		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	390		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluorene	15		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	200		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Naphthalene	25		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	350		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	140		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL3SB-422M-0001-SO — Lab Sample ID: 240-1728-12

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	9.8		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Anthracene	14		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	55		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	65		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	89	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	50		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	49	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	71		6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	12		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	120		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluorene	7.3		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	46		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Naphthalene	12		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	96		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	52		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL2SS-519M-0001-SO — Lab Sample ID: 240-1728-13

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	37		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Acenaphthylene	130		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Anthracene	170		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	520		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	590		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	630	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	430		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	410	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	550		6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	97		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	1100		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluorene	76		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	400		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Naphthalene	30		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	850		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	560		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Aroclor 1254	490	D	280	87	ug/Kg	5	☼	8082/DOD	Total/NA

Client Sample ID: LL2SS-516M-0001-SO — Lab Sample ID: 240-1728-14

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	110		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Acenaphthylene	340		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Anthracene	420		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	1500		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	1900	M	27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	980	M	27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Fluoranthene	2900	J	27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Fluorene	180		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Chrysene	1400		27	4.5	ug/Kg	4	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	240		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Dibenzofuran	100	J	200	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	870		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	1600	J	27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	890		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA

Client Sample ID: LL2SS-516M-0001-SO (Continued)

Lab Sample ID: 240-1728-14

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Isophorone	75	J	200	53	ug/Kg	4	☼	8270C/DoD	Total/NA
2-Methylnaphthalene	45		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Naphthalene	58		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Pyrene	2400	J	27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Phenanthrene	1400		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Carbazole	140	J	200	110	ug/Kg	4	☼	8270C/DoD	Total/NA
4,4'-DDE	19	J D	35	7.9	ug/Kg	20	☼	8081/DOD	Total/NA
gamma-Chlordane	9.9	D J	35	8.6	ug/Kg	20	☼	8081/DOD	Total/NA
Aroclor 1254	670	D	280	87	ug/Kg	5	☼	8082/DOD	Total/NA
Aluminum	8100	J	9.9	2.5	mg/Kg	1	☼	6020/DOD	Total/NA
Antimony	0.15	J	0.19	0.059	mg/Kg	1	☼	6020/DOD	Total/NA
Arsenic	10		0.48	0.050	mg/Kg	1	☼	6020/DOD	Total/NA
Barium	79	J	0.48	0.12	mg/Kg	1	☼	6020/DOD	Total/NA
Beryllium	0.86	D	0.48	0.017	mg/Kg	5	☼	6020/DOD	Total/NA
Cadmium	0.27	J D	0.95	0.015	mg/Kg	5	☼	6020/DOD	Total/NA
Calcium	17000	J	200	40	mg/Kg	1	☼	6020/DOD	Total/NA
Chromium	27		0.48	0.15	mg/Kg	1	☼	6020/DOD	Total/NA
Cobalt	8.3	D	0.48	0.021	mg/Kg	5	☼	6020/DOD	Total/NA
Copper	19		0.38	0.10	mg/Kg	1	☼	6020/DOD	Total/NA
Iron	20000	J	49	11	mg/Kg	1	☼	6020/DOD	Total/NA
Lead	35		0.29	0.067	mg/Kg	1	☼	6020/DOD	Total/NA
Magnesium	4100		99	8.8	mg/Kg	1	☼	6020/DOD	Total/NA
Manganese	670	D J	2.4	0.76	mg/Kg	5	☼	6020/DOD	Total/NA
Nickel	26		0.48	0.082	mg/Kg	1	☼	6020/DOD	Total/NA
Potassium	1100		99	3.7	mg/Kg	1	☼	6020/DOD	Total/NA
Selenium	1.2		0.48	0.020	mg/Kg	1	☼	6020/DOD	Total/NA
Sodium	160		99	14	mg/Kg	1	☼	6020/DOD	Total/NA
Thallium	0.17	J	0.19	0.054	mg/Kg	1	☼	6020/DOD	Total/NA
Vanadium	15		0.48	0.041	mg/Kg	1	☼	6020/DOD	Total/NA
Zinc	88	D J	19	4.8	mg/Kg	5	☼	6020/DOD	Total/NA
Mercury	0.023	J	0.10	0.014	mg/Kg	1	☼	7471/DOD	Total/NA
Hexavalent chromium	0.45	J	0.82	0.28	mg/Kg	1	☼	7196A	Total/NA

Analyte	Result	Qualifier	LOQ	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrocellulose	0.85	J	5.1	0.79	mg/kg	1	☼	WS-WC-0050	Total

Client Sample ID: LL2SS-516V-0001-SO

Lab Sample ID: 240-1728-15

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	200	J	230	71	ug/Kg	1	☼	8260B/DoD	Total/NA

Client Sample ID: LL2SS-517M-0001-SO

Lab Sample ID: 240-1728-18

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	150		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Acenaphthylene	320		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Anthracene	570		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	1600		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	2000	M	27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	950	M	27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Fluoranthene	3600		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Fluorene	300		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Chrysene	1500		27	4.5	ug/Kg	4	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	210		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA

Client Sample ID: LL2SS-517M-0001-SO (Continued)

Lab Sample ID: 240-1728-18

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Dibenzofuran	160	J	200	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	1000		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	1700		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	1000		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Isophorone	53	J	200	53	ug/Kg	4	☼	8270C/DoD	Total/NA
2-Methylnaphthalene	74		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Naphthalene	78		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Pyrene	2700		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Phenanthrene	2100		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Carbazole	170	J	200	110	ug/Kg	4	☼	8270C/DoD	Total/NA
Bis(2-ethylhexyl) phthalate	380		200	78	ug/Kg	4	☼	8270C/DoD	Total/NA
Aroclor 1254	250		56	17	ug/Kg	1	☼	8082/DOD	Total/NA
Aluminum	11000	D	93	23	mg/Kg	10	☼	6020/DOD	Total/NA
Antimony	0.14	J	0.19	0.058	mg/Kg	1	☼	6020/DOD	Total/NA
Arsenic	9.2		0.46	0.048	mg/Kg	1	☼	6020/DOD	Total/NA
Barium	88		0.46	0.12	mg/Kg	1	☼	6020/DOD	Total/NA
Beryllium	1.0	D	0.93	0.032	mg/Kg	10	☼	6020/DOD	Total/NA
Cadmium	0.17	J D	1.9	0.029	mg/Kg	10	☼	6020/DOD	Total/NA
Calcium	23000	D	1900	370	mg/Kg	10	☼	6020/DOD	Total/NA
Chromium	32		0.46	0.15	mg/Kg	1	☼	6020/DOD	Total/NA
Cobalt	9.2	D	0.93	0.042	mg/Kg	10	☼	6020/DOD	Total/NA
Copper	18		0.37	0.10	mg/Kg	1	☼	6020/DOD	Total/NA
Iron	20000		46	10	mg/Kg	1	☼	6020/DOD	Total/NA
Lead	33		0.28	0.065	mg/Kg	1	☼	6020/DOD	Total/NA
Magnesium	4500		93	8.3	mg/Kg	1	☼	6020/DOD	Total/NA
Manganese	870	D	4.6	1.5	mg/Kg	10	☼	6020/DOD	Total/NA
Nickel	29		0.46	0.080	mg/Kg	1	☼	6020/DOD	Total/NA
Potassium	1200		93	3.5	mg/Kg	1	☼	6020/DOD	Total/NA
Selenium	1.1		0.46	0.019	mg/Kg	1	☼	6020/DOD	Total/NA
Sodium	170		93	13	mg/Kg	1	☼	6020/DOD	Total/NA
Thallium	0.15	J	0.19	0.052	mg/Kg	1	☼	6020/DOD	Total/NA
Vanadium	14		0.46	0.040	mg/Kg	1	☼	6020/DOD	Total/NA
Zinc	62	D	37	9.3	mg/Kg	10	☼	6020/DOD	Total/NA
Mercury	0.022	J	0.10	0.014	mg/Kg	1	☼	7471/DOD	Total/NA

Analyte	Result	Qualifier	LOQ	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4,6-Trinitrotoluene	0.048	J PG	0.25	0.020	mg/kg	1		8330/8330A	Total
Nitrocellulose	0.94	J	5.1	0.80	mg/kg	1	☼	WS-WC-0050	Total

Client Sample ID: LL2SS-517V-0001-SO

Lab Sample ID: 240-1728-19

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	130	J	210	64	ug/Kg	1	☼	8260B/DoD	Total/NA

Client Sample ID: L12SS-300M-0001-SO

Lab Sample ID: 240-1728-20

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	570	D	85	42	ug/Kg	12.5	☼	8270C/DoD	Total/NA
Acenaphthylene	280	D	85	42	ug/Kg	12.5	☼	8270C/DoD	Total/NA
Anthracene	2300	D	85	42	ug/Kg	12.5	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	5000	D	85	42	ug/Kg	12.5	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	5200	D M	85	42	ug/Kg	12.5	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	3600	D M	85	42	ug/Kg	12.5	☼	8270C/DoD	Total/NA
Fluoranthene	11000	D	85	42	ug/Kg	12.5	☼	8270C/DoD	Total/NA

Client Sample ID: L12SS-300M-0001-SO (Continued)

Lab Sample ID: 240-1728-20

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	740	D	85	42	ug/Kg	12.5	☼	8270C/DoD	Total/NA
Chrysene	5400	D	85	14	ug/Kg	12.5	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	750	D	85	42	ug/Kg	12.5	☼	8270C/DoD	Total/NA
Dibenzofuran	450	J D	640	42	ug/Kg	12.5	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	2600	D	85	42	ug/Kg	12.5	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	4500	D	85	42	ug/Kg	12.5	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	2600	D	85	42	ug/Kg	12.5	☼	8270C/DoD	Total/NA
2-Methylnaphthalene	530	D	85	42	ug/Kg	12.5	☼	8270C/DoD	Total/NA
Naphthalene	440	D	85	42	ug/Kg	12.5	☼	8270C/DoD	Total/NA
Pyrene	9000	D	85	42	ug/Kg	12.5	☼	8270C/DoD	Total/NA
Phenanthrene	6400	D	85	42	ug/Kg	12.5	☼	8270C/DoD	Total/NA
Carbazole	680	D	640	350	ug/Kg	12.5	☼	8270C/DoD	Total/NA
Endrin ketone	80	J D	100	32	ug/Kg	50	☼	8081/DOD	Total/NA
Aroclor 1260	770	D	280	87	ug/Kg	5	☼	8082/DOD	Total/NA
Aluminum	20000	D	99	25	mg/Kg	10	☼	6020/DOD	Total/NA
Antimony	0.96		0.20	0.061	mg/Kg	1	☼	6020/DOD	Total/NA
Arsenic	16		0.49	0.051	mg/Kg	1	☼	6020/DOD	Total/NA
Barium	79		0.49	0.13	mg/Kg	1	☼	6020/DOD	Total/NA
Beryllium	0.86	J D	0.99	0.034	mg/Kg	10	☼	6020/DOD	Total/NA
Cadmium	1.0	J D	2.0	0.031	mg/Kg	10	☼	6020/DOD	Total/NA
Calcium	17000	D	2000	390	mg/Kg	10	☼	6020/DOD	Total/NA
Chromium	57		0.49	0.16	mg/Kg	1	☼	6020/DOD	Total/NA
Cobalt	7.4	D	0.99	0.044	mg/Kg	10	☼	6020/DOD	Total/NA
Copper	440		0.39	0.11	mg/Kg	1	☼	6020/DOD	Total/NA
Iron	25000		49	11	mg/Kg	1	☼	6020/DOD	Total/NA
Lead	67		0.30	0.069	mg/Kg	1	☼	6020/DOD	Total/NA
Magnesium	4200		99	8.8	mg/Kg	1	☼	6020/DOD	Total/NA
Manganese	1200	D	4.9	1.6	mg/Kg	10	☼	6020/DOD	Total/NA
Nickel	51		0.49	0.085	mg/Kg	1	☼	6020/DOD	Total/NA
Potassium	980		99	3.7	mg/Kg	1	☼	6020/DOD	Total/NA
Selenium	1.4		0.49	0.020	mg/Kg	1	☼	6020/DOD	Total/NA
Silver	0.26	J D	0.99	0.16	mg/Kg	10	☼	6020/DOD	Total/NA
Sodium	110		99	14	mg/Kg	1	☼	6020/DOD	Total/NA
Thallium	0.099	J	0.20	0.055	mg/Kg	1	☼	6020/DOD	Total/NA
Vanadium	19		0.49	0.043	mg/Kg	1	☼	6020/DOD	Total/NA
Zinc	280	D	39	9.9	mg/Kg	10	☼	6020/DOD	Total/NA
Mercury	0.088		0.076	0.011	mg/Kg	1	☼	7471/DOD	Total/NA

Analyte	Result	Qualifier	LOQ	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetryl	0.17	J PG	0.24	0.048	mg/kg	0.97		8330/8330A	Total
Nitrocellulose	2.1	J	5.1	0.80	mg/kg	1	☼	WS-WC-0050	Total

Client Sample ID: L12SS-300V-0001-SO

Lab Sample ID: 240-1728-21

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	41	J	230	11	ug/Kg	1	☼	8260B/DoD	Total/NA
Toluene	16	J	230	15	ug/Kg	1	☼	8260B/DoD	Total/NA
Xylenes (total)	24	J	460	7.4	ug/Kg	1	☼	8260B/DoD	Total/NA

Client Sample ID: L12SS-301M-0001-SO

Lab Sample ID: 240-1728-22

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	750	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Acenaphthylene	600	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA

Client Sample ID: L12SS-301M-0001-SO (Continued)

Lab Sample ID: 240-1728-22

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	3700	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	8300	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	8500	D M	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	4400	D M	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Fluoranthene	16000	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Fluorene	880	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Chrysene	8100	D	140	23	ug/Kg	20	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	960	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Dibenzofuran	660	J D	1000	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	3800	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	6800	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	3700	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
2-Methylnaphthalene	720	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Naphthalene	540	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Pyrene	13000	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Phenanthrene	8700	D	140	68	ug/Kg	20	☼	8270C/DoD	Total/NA
Carbazole	980	J D	1000	550	ug/Kg	20	☼	8270C/DoD	Total/NA
Endrin ketone	130	D	100	32	ug/Kg	50	☼	8081/DOD	Total/NA
gamma-Chlordane	71	J D Q	87	22	ug/Kg	50	☼	8081/DOD	Total/NA
Aroclor 1260	930	D	280	87	ug/Kg	5	☼	8082/DOD	Total/NA
Aluminum	24000	D	87	22	mg/Kg	10	☼	6020/DOD	Total/NA
Antimony	1.4	J D	1.7	0.54	mg/Kg	10	☼	6020/DOD	Total/NA
Arsenic	12		0.43	0.045	mg/Kg	1	☼	6020/DOD	Total/NA
Barium	84	D	4.3	1.1	mg/Kg	10	☼	6020/DOD	Total/NA
Beryllium	0.94	D	0.87	0.030	mg/Kg	10	☼	6020/DOD	Total/NA
Cadmium	1.4	J D	1.7	0.027	mg/Kg	10	☼	6020/DOD	Total/NA
Calcium	19000	D	1700	350	mg/Kg	10	☼	6020/DOD	Total/NA
Chromium	58		0.43	0.14	mg/Kg	1	☼	6020/DOD	Total/NA
Cobalt	6.7	D	0.87	0.039	mg/Kg	10	☼	6020/DOD	Total/NA
Copper	650	D	3.5	0.96	mg/Kg	10	☼	6020/DOD	Total/NA
Iron	25000		43	9.5	mg/Kg	1	☼	6020/DOD	Total/NA
Lead	110	D	2.6	0.61	mg/Kg	10	☼	6020/DOD	Total/NA
Magnesium	4300		87	7.7	mg/Kg	1	☼	6020/DOD	Total/NA
Manganese	820	D	4.3	1.4	mg/Kg	10	☼	6020/DOD	Total/NA
Nickel	54		0.43	0.075	mg/Kg	1	☼	6020/DOD	Total/NA
Potassium	980		87	3.3	mg/Kg	1	☼	6020/DOD	Total/NA
Selenium	1.2		0.43	0.018	mg/Kg	1	☼	6020/DOD	Total/NA
Silver	0.32	J D	0.87	0.14	mg/Kg	10	☼	6020/DOD	Total/NA
Sodium	130		87	12	mg/Kg	1	☼	6020/DOD	Total/NA
Vanadium	21		0.43	0.038	mg/Kg	1	☼	6020/DOD	Total/NA
Zinc	340	D	35	8.7	mg/Kg	10	☼	6020/DOD	Total/NA
Mercury	0.11		0.089	0.012	mg/Kg	1	☼	7471/DOD	Total/NA
Hexavalent chromium	0.29	J	0.82	0.28	mg/Kg	1	☼	7196A	Total/NA

Analyte	Result	Qualifier	LOQ	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrobenzene	0.20	J PG	0.25	0.050	mg/kg	1		8330/8330A	Total
Tetryl	0.25	PG	0.25	0.050	mg/kg	1		8330/8330A	Total
Nitrocellulose	2.6	J	5.1	0.80	mg/kg	1	☼	WS-WC-0050	Total

Client Sample ID: L12SS-301V-0001-SO

Lab Sample ID: 240-1728-23

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	34	J	180	8.4	ug/Kg	1	☼	8260B/DoD	Total/NA
Ethylbenzene	12	J	180	3.8	ug/Kg	1	☼	8260B/DoD	Total/NA

Client Sample ID: L12SS-301V-0001-SO (Continued)

Lab Sample ID: 240-1728-23

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	73	J	180	54	ug/Kg	1	☼	8260B/DoD	Total/NA
Toluene	50	J	180	12	ug/Kg	1	☼	8260B/DoD	Total/NA
Xylenes (total)	64	J	350	5.7	ug/Kg	1	☼	8260B/DoD	Total/NA

Client Sample ID: LL1SB-644M-0101-SO

Lab Sample ID: 240-1728-24

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	21		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	28	M	6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	15	M	6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	41		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	21		6.7	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	19	M	6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	19		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Di-n-butyl phthalate	37	J	50	15	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	14		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
2-Methylnaphthalene	9.3		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	34		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	25		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Bis(2-ethylhexyl) phthalate	270		50	19	ug/Kg	1	☼	8270C/DoD	Total/NA
4,4'-DDE	87	D	8.5	2.0	ug/Kg	5	☼	8081/DOD	Total/NA
Endrin aldehyde	19	D	15	5.0	ug/Kg	5	☼	8081/DOD	Total/NA
gamma-Chlordane	3.4	J D	8.5	2.1	ug/Kg	5	☼	8081/DOD	Total/NA
Aroclor 1254	790	D	280	85	ug/Kg	5	☼	8082/DOD	Total/NA
Aluminum	4300	D	43	11	mg/Kg	5	☼	6020/DOD	Total/NA
Arsenic	5.9		0.43	0.045	mg/Kg	1	☼	6020/DOD	Total/NA
Barium	30		0.43	0.11	mg/Kg	1	☼	6020/DOD	Total/NA
Beryllium	0.29	J D	0.43	0.015	mg/Kg	5	☼	6020/DOD	Total/NA
Cadmium	0.47	J D	0.86	0.013	mg/Kg	5	☼	6020/DOD	Total/NA
Calcium	3900		170	34	mg/Kg	1	☼	6020/DOD	Total/NA
Chromium	15		0.43	0.14	mg/Kg	1	☼	6020/DOD	Total/NA
Cobalt	4.8	D	0.43	0.019	mg/Kg	5	☼	6020/DOD	Total/NA
Copper	10		0.34	0.095	mg/Kg	1	☼	6020/DOD	Total/NA
Iron	15000		43	9.4	mg/Kg	1	☼	6020/DOD	Total/NA
Lead	36		0.26	0.061	mg/Kg	1	☼	6020/DOD	Total/NA
Magnesium	1500		86	7.7	mg/Kg	1	☼	6020/DOD	Total/NA
Manganese	540	D	2.2	0.69	mg/Kg	5	☼	6020/DOD	Total/NA
Nickel	13		0.43	0.074	mg/Kg	1	☼	6020/DOD	Total/NA
Potassium	580		86	3.2	mg/Kg	1	☼	6020/DOD	Total/NA
Selenium	0.55		0.43	0.018	mg/Kg	1	☼	6020/DOD	Total/NA
Sodium	31	J	86	12	mg/Kg	1	☼	6020/DOD	Total/NA
Thallium	0.095	J	0.17	0.048	mg/Kg	1	☼	6020/DOD	Total/NA
Vanadium	8.9		0.43	0.037	mg/Kg	1	☼	6020/DOD	Total/NA
Zinc	68	D	17	4.3	mg/Kg	5	☼	6020/DOD	Total/NA
Hexavalent chromium	0.71	J	0.81	0.27	mg/Kg	1	☼	7196A	Total/NA

Analyte	Result	Qualifier	LOQ	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trinitrobenzene	0.088	J	0.24	0.019	mg/kg	0.97		8330/8330A	Total
2,4,6-Trinitrotoluene	5.1		0.24	0.019	mg/kg	0.97		8330/8330A	Total
4-Amino-2,6-dinitrotoluene	0.22	J	0.24	0.019	mg/kg	0.97		8330/8330A	Total
HMX	0.38		0.24	0.029	mg/kg	0.97		8330/8330A	Total
RDX	0.24		0.24	0.039	mg/kg	0.97		8330/8330A	Total
Nitrocellulose	2.1	J	5.0	0.79	mg/kg	1	☼	WS-WC-0050	Total

Client Sample ID: LL1SB-644V-0101-SO — Lab Sample ID: 240-1728-25

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	68	J	160	49	ug/Kg	1		8260B/DoD	Total/NA

Client Sample ID: LL1SB-644M-0102-SO — Lab Sample ID: 240-1728-26

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	18		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Anthracene	60		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	130		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	150	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	60	M	6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	340		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluorene	23		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	120		6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	18		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	65		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	100		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Di-n-butyl phthalate	27	J	51	15	ug/Kg	1	☼	8270C/DoD	Total/NA
Diethyl phthalate	33	J	51	16	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	59		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
2-Methylnaphthalene	21		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Naphthalene	12		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	270		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	230		6.8	3.4	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenol	31	J	51	27	ug/Kg	1	☼	8270C/DoD	Total/NA
Bis(2-ethylhexyl) phthalate	380		51	19	ug/Kg	1	☼	8270C/DoD	Total/NA
4,4'-DDE	190	D	35	7.9	ug/Kg	20	☼	8081/DOD	Total/NA
Endosulfan I	11	J D	35	11	ug/Kg	20	☼	8081/DOD	Total/NA
Endrin aldehyde	360	D	61	20	ug/Kg	20	☼	8081/DOD	Total/NA
gamma-Chlordane	580	D Q	35	8.5	ug/Kg	20	☼	8081/DOD	Total/NA
Aroclor 1254	14000	D	2800	860	ug/Kg	50	☼	8082/DOD	Total/NA
Aluminum	6600	D	76	19	mg/Kg	10	☼	6020/DOD	Total/NA
Antimony	0.086	J	0.15	0.047	mg/Kg	1	☼	6020/DOD	Total/NA
Arsenic	6.0		0.38	0.040	mg/Kg	1	☼	6020/DOD	Total/NA
Barium	60		0.38	0.099	mg/Kg	1	☼	6020/DOD	Total/NA
Beryllium	0.53	J D	0.76	0.027	mg/Kg	10	☼	6020/DOD	Total/NA
Cadmium	0.60	J D	1.5	0.024	mg/Kg	10	☼	6020/DOD	Total/NA
Calcium	26000	D	1500	300	mg/Kg	10	☼	6020/DOD	Total/NA
Chromium	28		0.38	0.12	mg/Kg	1	☼	6020/DOD	Total/NA
Cobalt	3.7	D	0.76	0.034	mg/Kg	10	☼	6020/DOD	Total/NA
Copper	12		0.30	0.084	mg/Kg	1	☼	6020/DOD	Total/NA
Iron	14000		38	8.3	mg/Kg	1	☼	6020/DOD	Total/NA
Lead	70		0.23	0.054	mg/Kg	1	☼	6020/DOD	Total/NA
Magnesium	2700		76	6.8	mg/Kg	1	☼	6020/DOD	Total/NA
Manganese	670	D	3.8	1.2	mg/Kg	10	☼	6020/DOD	Total/NA
Nickel	17		0.38	0.066	mg/Kg	1	☼	6020/DOD	Total/NA
Potassium	580		76	2.9	mg/Kg	1	☼	6020/DOD	Total/NA
Selenium	0.71		0.38	0.016	mg/Kg	1	☼	6020/DOD	Total/NA
Sodium	91		76	11	mg/Kg	1	☼	6020/DOD	Total/NA
Thallium	0.067	J	0.15	0.043	mg/Kg	1	☼	6020/DOD	Total/NA
Vanadium	8.6		0.38	0.033	mg/Kg	1	☼	6020/DOD	Total/NA
Zinc	130	D	30	7.6	mg/Kg	10	☼	6020/DOD	Total/NA
Mercury	0.039	J	0.064	0.0090	mg/Kg	1	☼	7471/DOD	Total/NA

Client Sample ID: LL1SB-644M-0102-SO (Continued) — Lab Sample ID: 240-1728-26

Analyte	Result	Qualifier	LOQ	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trinitrobenzene	0.037	J	0.25	0.020	mg/kg	0.99		8330/8330A	Total
2,4,6-Trinitrotoluene	0.49		0.25	0.020	mg/kg	0.99		8330/8330A	Total
4-Amino-2,6-dinitrotoluene	0.17	J	0.25	0.020	mg/kg	0.99		8330/8330A	Total
HMX	0.12	J	0.25	0.030	mg/kg	0.99		8330/8330A	Total
RDX	0.28		0.25	0.040	mg/kg	0.99		8330/8330A	Total
Nitrocellulose	2.5	J	5.1	0.79	mg/kg	1	☼	WS-WC-0050	Total

Client Sample ID: LL1SB-644V-0102-SO — Lab Sample ID: 240-1728-27

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	160	J	320	97	ug/Kg	1		8260B/DoD	Total/NA

Client Sample ID: LL1SB-644M-0103-SO — Lab Sample ID: 240-1728-28

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	10		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	18		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	7.1		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Di-n-butyl phthalate	19	J	50	15	ug/Kg	1	☼	8270C/DoD	Total/NA
Diethyl phthalate	25	J	50	16	ug/Kg	1	☼	8270C/DoD	Total/NA
Isophorone	15	J	50	13	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	13		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	16		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Bis(2-ethylhexyl) phthalate	390		50	19	ug/Kg	1	☼	8270C/DoD	Total/NA
4,4'-DDE	65	D	8.5	2.0	ug/Kg	5	☼	8081/DOD	Total/NA
Endrin	7.7	J D	8.5	2.5	ug/Kg	5	☼	8081/DOD	Total/NA
Endrin aldehyde	40	D	15	5.0	ug/Kg	5	☼	8081/DOD	Total/NA
gamma-Chlordane	300	D Q	8.5	2.1	ug/Kg	5	☼	8081/DOD	Total/NA
Methoxychlor	12	J D	25	7.5	ug/Kg	5	☼	8081/DOD	Total/NA
Aroclor 1254	1800	D	550	170	ug/Kg	10	☼	8082/DOD	Total/NA
Aluminum	2000	D	49	12	mg/Kg	5	☼	6020/DOD	Total/NA
Arsenic	3.7		0.49	0.051	mg/Kg	1	☼	6020/DOD	Total/NA
Barium	17		0.49	0.13	mg/Kg	1	☼	6020/DOD	Total/NA
Beryllium	0.15	J D	0.49	0.017	mg/Kg	5	☼	6020/DOD	Total/NA
Cadmium	0.15	J D	0.97	0.015	mg/Kg	5	☼	6020/DOD	Total/NA
Calcium	3200		190	39	mg/Kg	1	☼	6020/DOD	Total/NA
Chromium	12		0.49	0.16	mg/Kg	1	☼	6020/DOD	Total/NA
Cobalt	6.7	D	0.49	0.022	mg/Kg	5	☼	6020/DOD	Total/NA
Copper	4.0		0.39	0.11	mg/Kg	1	☼	6020/DOD	Total/NA
Iron	9200		49	11	mg/Kg	1	☼	6020/DOD	Total/NA
Lead	7.7		0.29	0.069	mg/Kg	1	☼	6020/DOD	Total/NA
Magnesium	580		97	8.7	mg/Kg	1	☼	6020/DOD	Total/NA
Manganese	530	D	2.4	0.78	mg/Kg	5	☼	6020/DOD	Total/NA
Nickel	9.4		0.49	0.084	mg/Kg	1	☼	6020/DOD	Total/NA
Potassium	450		97	3.7	mg/Kg	1	☼	6020/DOD	Total/NA
Selenium	0.34	J	0.49	0.020	mg/Kg	1	☼	6020/DOD	Total/NA
Sodium	26	J	97	14	mg/Kg	1	☼	6020/DOD	Total/NA
Thallium	0.11	J	0.19	0.055	mg/Kg	1	☼	6020/DOD	Total/NA
Vanadium	4.8		0.49	0.042	mg/Kg	1	☼	6020/DOD	Total/NA
Zinc	62	D	19	4.9	mg/Kg	5	☼	6020/DOD	Total/NA

Analyte	Result	Qualifier	LOQ	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trinitrobenzene	0.076	J	0.25	0.020	mg/kg	1		8330/8330A	Total
2,4,6-Trinitrotoluene	3.1		0.25	0.020	mg/kg	1		8330/8330A	Total

Client Sample ID: LL1SB-644M-0103-SO (Continued) — Lab Sample ID: 240-1728-28

Analyte	Result	Qualifier	LOQ	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Amino-2,6-dinitrotoluene	0.28		0.25	0.020	mg/kg	1		8330/8330A	Total
HMX	0.11	J	0.25	0.030	mg/kg	1		8330/8330A	Total
RDX	0.33		0.25	0.040	mg/kg	1		8330/8330A	Total
Nitrocellulose	2.2	J	5.0	0.78	mg/kg	1	☼	WS-WC-0050	Total

Client Sample ID: LL1SB-644V-0103-SO — Lab Sample ID: 240-1728-29

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	140	J	380	120	ug/Kg	1		8260B/DoD	Total/NA

Client Sample ID: LL1SB-645M-0101-SO — Lab Sample ID: 240-1728-30

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	19		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	28	M	6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	14	M	6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	47		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	24		6.7	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	23	M	6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	19		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Di-n-butyl phthalate	35	J	50	15	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	13		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Isophorone	55		50	13	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	35		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	27		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Bis(2-ethylhexyl) phthalate	160		50	19	ug/Kg	1	☼	8270C/DoD	Total/NA
4,4'-DDE	110	D	8.6	2.0	ug/Kg	5	☼	8081/DOD	Total/NA
Endrin aldehyde	34	D	15	5.1	ug/Kg	5	☼	8081/DOD	Total/NA
Aroclor 1254	1400	D	280	86	ug/Kg	5	☼	8082/DOD	Total/NA
Aluminum	4300		10	2.5	mg/Kg	1	☼	6020/DOD	Total/NA
Antimony	0.084	J	0.20	0.063	mg/Kg	1	☼	6020/DOD	Total/NA
Arsenic	5.8		0.50	0.053	mg/Kg	1	☼	6020/DOD	Total/NA
Barium	39	B	0.50	0.13	mg/Kg	1	☼	6020/DOD	Total/NA
Beryllium	0.35		0.10	0.0035	mg/Kg	1	☼	6020/DOD	Total/NA
Cadmium	3.8		0.20	0.0031	mg/Kg	1	☼	6020/DOD	Total/NA
Calcium	9000	J	200	40	mg/Kg	1	☼	6020/DOD	Total/NA
Chromium	29	J	0.50	0.16	mg/Kg	1	☼	6020/DOD	Total/NA
Cobalt	5.4		0.10	0.0045	mg/Kg	1	☼	6020/DOD	Total/NA
Copper	22		0.40	0.11	mg/Kg	1	☼	6020/DOD	Total/NA
Iron	19000	J	50	11	mg/Kg	1	☼	6020/DOD	Total/NA
Lead	53	D J	1.5	0.36	mg/Kg	5	☼	6020/DOD	Total/NA
Magnesium	1700		100	9.0	mg/Kg	1	☼	6020/DOD	Total/NA
Manganese	600	D J	2.5	0.81	mg/Kg	5	☼	6020/DOD	Total/NA
Nickel	20		0.50	0.087	mg/Kg	1	☼	6020/DOD	Total/NA
Potassium	590		100	3.8	mg/Kg	1	☼	6020/DOD	Total/NA
Selenium	0.44	J	0.50	0.021	mg/Kg	1	☼	6020/DOD	Total/NA
Silver	0.018	J	0.10	0.016	mg/Kg	1	☼	6020/DOD	Total/NA
Sodium	60	J	100	14	mg/Kg	1	☼	6020/DOD	Total/NA
Thallium	0.12	J	0.20	0.057	mg/Kg	1	☼	6020/DOD	Total/NA
Vanadium	8.1		0.50	0.044	mg/Kg	1	☼	6020/DOD	Total/NA
Zinc	100	B J	4.0	1.0	mg/Kg	1	☼	6020/DOD	Total/NA
Mercury	0.021	J	0.098	0.014	mg/Kg	1	☼	7471/DOD	Total/NA

Client Sample ID: LL1SB-645M-0101-SO (Continued) — Lab Sample ID: 240-1728-30

Analyte	Result	Qualifier	LOQ	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trinitrobenzene	0.091	J	0.24	0.019	mg/kg	0.96		8330/8330A	Total
2,4,6-Trinitrotoluene	5.7		0.24	0.019	mg/kg	0.96		8330/8330A	Total
2,4-Dinitrotoluene	0.028	J	0.24	0.019	mg/kg	0.96		8330/8330A	Total
2-Amino-4,6-dinitrotoluene	0.15	J	0.24	0.096	mg/kg	0.96		8330/8330A	Total
4-Amino-2,6-dinitrotoluene	0.38		0.24	0.019	mg/kg	0.96		8330/8330A	Total
HMX	0.72		0.24	0.029	mg/kg	0.96		8330/8330A	Total
RDX	4.7		0.24	0.038	mg/kg	0.96		8330/8330A	Total
Nitrocellulose	3.5	J	5.0	0.79	mg/kg	1	☼	WS-WC-0050	Total

Client Sample ID: LL1SB-645V-0101-SO — Lab Sample ID: 240-1728-31

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	74	J	150	46	ug/Kg	1		8260B/DoD	Total/NA

Client Sample ID: LL1SB-645M-0102-SO — Lab Sample ID: 240-1728-32

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	18		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Anthracene	58		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	120		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	130	M	6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	62	M	6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	300		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluorene	23		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	120		6.8	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	14		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Dibenzofuran	16	J	51	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	62		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	99		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Di-n-butyl phthalate	23	J	51	15	ug/Kg	1	☼	8270C/DoD	Total/NA
Diethyl phthalate	26	J	51	16	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	58		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
2-Methylnaphthalene	11		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Naphthalene	6.8		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	230		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	210		6.8	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Bis(2-ethylhexyl) phthalate	170		51	19	ug/Kg	1	☼	8270C/DoD	Total/NA
4,4'-DDE	210	D	35	7.9	ug/Kg	20	☼	8081/DOD	Total/NA
Endosulfan I	13	J D	35	11	ug/Kg	20	☼	8081/DOD	Total/NA
Endrin	16	J D	35	10	ug/Kg	20	☼	8081/DOD	Total/NA
Endrin aldehyde	420	D	61	20	ug/Kg	20	☼	8081/DOD	Total/NA
gamma-Chlordane	650	D Q	35	8.5	ug/Kg	20	☼	8081/DOD	Total/NA
Aroclor 1254	18000	D	5600	1700	ug/Kg	100	☼	8082/DOD	Total/NA
Aluminum	6200	D	49	12	mg/Kg	5	☼	6020/DOD	Total/NA
Arsenic	5.5		0.49	0.051	mg/Kg	1	☼	6020/DOD	Total/NA
Barium	71		0.49	0.13	mg/Kg	1	☼	6020/DOD	Total/NA
Beryllium	0.59	D	0.49	0.017	mg/Kg	5	☼	6020/DOD	Total/NA
Cadmium	0.44	J D	0.99	0.015	mg/Kg	5	☼	6020/DOD	Total/NA
Calcium	29000	D	990	200	mg/Kg	5	☼	6020/DOD	Total/NA
Chromium	27		0.49	0.16	mg/Kg	1	☼	6020/DOD	Total/NA
Cobalt	4.0	D	0.49	0.022	mg/Kg	5	☼	6020/DOD	Total/NA
Copper	12		0.39	0.11	mg/Kg	1	☼	6020/DOD	Total/NA
Iron	13000		49	11	mg/Kg	1	☼	6020/DOD	Total/NA
Lead	75		0.30	0.069	mg/Kg	1	☼	6020/DOD	Total/NA

Client Sample ID: LL1SB-645M-0102-SO (Continued)

Lab Sample ID: 240-1728-32

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	2800		99	8.8	mg/Kg	1	☼	6020/DOD	Total/NA
Manganese	690	D	2.5	0.79	mg/Kg	5	☼	6020/DOD	Total/NA
Nickel	17		0.49	0.085	mg/Kg	1	☼	6020/DOD	Total/NA
Potassium	690		99	3.7	mg/Kg	1	☼	6020/DOD	Total/NA
Selenium	0.65		0.49	0.020	mg/Kg	1	☼	6020/DOD	Total/NA
Sodium	96	J	99	14	mg/Kg	1	☼	6020/DOD	Total/NA
Thallium	0.093	J	0.20	0.055	mg/Kg	1	☼	6020/DOD	Total/NA
Vanadium	8.8		0.49	0.043	mg/Kg	1	☼	6020/DOD	Total/NA
Zinc	63	D	20	4.9	mg/Kg	5	☼	6020/DOD	Total/NA
Mercury	0.043	J	0.091	0.013	mg/Kg	1	☼	7471/DOD	Total/NA

Analyte	Result	Qualifier	LOQ	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4,6-Trinitrotoluene	0.19	J	0.25	0.020	mg/kg	1		8330/8330A	Total
4-Amino-2,6-dinitrotoluene	0.13	J	0.25	0.020	mg/kg	1		8330/8330A	Total
HMX	0.15	J	0.25	0.030	mg/kg	1		8330/8330A	Total
RDX	0.34		0.25	0.040	mg/kg	1		8330/8330A	Total
Nitrocellulose	1.4	J	5.1	0.79	mg/kg	1	☼	WS-WC-0050	Total

Client Sample ID: LL1SB-645V-0102-SO

Lab Sample ID: 240-1728-33

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	100	J	270	83	ug/Kg	1		8260B/DoD	Total/NA

Client Sample ID: LL1SB-645M-0103-SO

Lab Sample ID: 240-1728-34

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	10		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Di-n-butyl phthalate	24	J	50	15	ug/Kg	1	☼	8270C/DoD	Total/NA
Diethyl phthalate	30	J	50	16	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	9.1		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	6.7		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Bis(2-ethylhexyl) phthalate	240		50	19	ug/Kg	1	☼	8270C/DoD	Total/NA
4,4'-DDE	670	D J	34	7.8	ug/Kg	20	☼	8081/DOD	Total/NA
4,4'-DDT	20	D J	40	13	ug/Kg	20	☼	8081/DOD	Total/NA
beta-BHC	28	D J Q	70	22	ug/Kg	20	☼	8081/DOD	Total/NA
Endrin	36	D J	34	10	ug/Kg	20	☼	8081/DOD	Total/NA
Aroclor 1254	280		55	17	ug/Kg	1	☼	8082/DOD	Total/NA
Aluminum	3400	D	46	11	mg/Kg	5	☼	6020/DOD	Total/NA
Arsenic	3.5		0.46	0.048	mg/Kg	1	☼	6020/DOD	Total/NA
Barium	23		0.46	0.12	mg/Kg	1	☼	6020/DOD	Total/NA
Beryllium	0.45	J D	0.46	0.016	mg/Kg	5	☼	6020/DOD	Total/NA
Cadmium	0.15	J D	0.91	0.014	mg/Kg	5	☼	6020/DOD	Total/NA
Calcium	9000		180	37	mg/Kg	1	☼	6020/DOD	Total/NA
Chromium	17		0.46	0.15	mg/Kg	1	☼	6020/DOD	Total/NA
Cobalt	2.1	D	0.46	0.021	mg/Kg	5	☼	6020/DOD	Total/NA
Copper	4.4		0.37	0.10	mg/Kg	1	☼	6020/DOD	Total/NA
Iron	12000		46	10	mg/Kg	1	☼	6020/DOD	Total/NA
Lead	6.3		0.27	0.064	mg/Kg	1	☼	6020/DOD	Total/NA
Magnesium	1800		91	8.1	mg/Kg	1	☼	6020/DOD	Total/NA
Manganese	310	D	2.3	0.73	mg/Kg	5	☼	6020/DOD	Total/NA
Nickel	10		0.46	0.079	mg/Kg	1	☼	6020/DOD	Total/NA
Potassium	460		91	3.4	mg/Kg	1	☼	6020/DOD	Total/NA
Selenium	0.42	J	0.46	0.019	mg/Kg	1	☼	6020/DOD	Total/NA
Sodium	66	J	91	13	mg/Kg	1	☼	6020/DOD	Total/NA

Client Sample ID: LL1SB-645M-0103-SO (Continued) — Lab Sample ID: 240-1728-34

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Thallium	0.066	J	0.18	0.051	mg/Kg	1	☼	6020/DOD	Total/NA
Vanadium	3.9		0.46	0.039	mg/Kg	1	☼	6020/DOD	Total/NA
Zinc	42	D	18	4.6	mg/Kg	5	☼	6020/DOD	Total/NA

Analyte	Result	Qualifier	LOQ	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trinitrobenzene	0.070	J	0.25	0.020	mg/kg	1.01		8330/8330A	Total
2,4,6-Trinitrotoluene	3.4		0.25	0.020	mg/kg	1.01		8330/8330A	Total
2-Amino-4,6-dinitrotoluene	0.16	J	0.25	0.10	mg/kg	1.01		8330/8330A	Total
4-Amino-2,6-dinitrotoluene	0.49		0.25	0.020	mg/kg	1.01		8330/8330A	Total
HMX	0.26		0.25	0.030	mg/kg	1.01		8330/8330A	Total
RDX	0.52		0.25	0.040	mg/kg	1.01		8330/8330A	Total
Nitrocellulose	5.4		5.0	0.78	mg/kg	1	☼	WS-WC-0050	Total

Client Sample ID: LL1SB-645V-0103-SO — Lab Sample ID: 240-1728-35

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	130	J	310	97	ug/Kg	1		8260B/DoD	Total/NA

Client Sample ID: LL1SB-643M-0101-SO — Lab Sample ID: 240-1728-36

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	32		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	29		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	31	M	27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Chrysene	32		27	4.4	ug/Kg	4	☼	8270C/DoD	Total/NA
Fluoranthene	70		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Pyrene	59		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA
Phenanthrene	58		27	13	ug/Kg	4	☼	8270C/DoD	Total/NA

Client Sample ID: LL1SB-643M-0102-SO — Lab Sample ID: 240-1728-37

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	11		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	14		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	12		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL1SB-643M-0103-SO — Lab Sample ID: 240-1728-38

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	100	D	67	33	ug/Kg	10	☼	8270C/DoD	Total/NA
Pyrene	83	D	67	33	ug/Kg	10	☼	8270C/DoD	Total/NA
Phenanthrene	110	D	67	33	ug/Kg	10	☼	8270C/DoD	Total/NA

Client Sample ID: LL1SB-640M-0101-SO — Lab Sample ID: 240-1728-39

Analyte	Result	Qualifier	LOQ	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trinitrobenzene	0.026	J	0.25	0.020	mg/kg	0.99		8330/8330A	Total
2,4,6-Trinitrotoluene	0.24	J	0.25	0.020	mg/kg	0.99		8330/8330A	Total
4-Amino-2,6-dinitrotoluene	0.094	J	0.25	0.020	mg/kg	0.99		8330/8330A	Total
HMX	0.62		0.25	0.030	mg/kg	0.99		8330/8330A	Total
RDX	0.34		0.25	0.040	mg/kg	0.99		8330/8330A	Total

Client Sample ID: LL1SB-640M-0102-SO — Lab Sample ID: 240-1728-40

Client Sample ID: LL1SB-640M-0102-SO (Continued) — Lab Sample ID: 240-1728-40

Analyte	Result	Qualifier	LOQ	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trinitrobenzene	0.037	J	0.25	0.020	mg/kg	0.99		8330/8330A	Total
2,4,6-Trinitrotoluene	6.3		0.25	0.020	mg/kg	0.99		8330/8330A	Total
HMX	0.83		0.25	0.030	mg/kg	0.99		8330/8330A	Total
RDX	2.1		0.25	0.040	mg/kg	0.99		8330/8330A	Total

Client Sample ID: LL1SB-640M-0103-SO — Lab Sample ID: 240-1728-41

Analyte	Result	Qualifier	LOQ	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trinitrobenzene	0.053	J	0.25	0.020	mg/kg	1		8330/8330A	Total
2,4,6-Trinitrotoluene	15		0.25	0.020	mg/kg	1		8330/8330A	Total
HMX	0.098	J	0.25	0.030	mg/kg	1		8330/8330A	Total
RDX	0.18	J	0.25	0.040	mg/kg	1		8330/8330A	Total

Client Sample ID: LL1SB-641M-0101-SO — Lab Sample ID: 240-1728-42

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	10		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Acenaphthylene	8.6		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Anthracene	64		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	230		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	190		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	220	M	6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	130		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	160	M	6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	200		6.7	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Dibenz(a,h)anthracene	30		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	510		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluorene	12		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	110		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Naphthalene	13		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	370		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	220		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL1SB-641M-0102-SO — Lab Sample ID: 240-1728-43

No Detections

Client Sample ID: LL1SB-641M-0103-SO — Lab Sample ID: 240-1728-44

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	19		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	19		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	30	M	6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	19	M	6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	13	M	6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	21		6.7	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	41		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	17	M	6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	33		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	24		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL1SB-642M-0101-SO — Lab Sample ID: 240-1728-45

Client Sample ID: LL1SB-642M-0101-SO (Continued) — Lab Sample ID: 240-1728-45

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	80	D	34	17	ug/Kg	5	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	210	D	34	17	ug/Kg	5	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	190	D	34	17	ug/Kg	5	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	250	D M	34	17	ug/Kg	5	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	140	D	34	17	ug/Kg	5	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	110	D M	34	17	ug/Kg	5	☼	8270C/DoD	Total/NA
Chrysene	230	D	34	5.6	ug/Kg	5	☼	8270C/DoD	Total/NA
Fluoranthene	510	D	34	17	ug/Kg	5	☼	8270C/DoD	Total/NA
Fluorene	37	D	34	17	ug/Kg	5	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	120	D	34	17	ug/Kg	5	☼	8270C/DoD	Total/NA
Pyrene	380	D	34	17	ug/Kg	5	☼	8270C/DoD	Total/NA
Phenanthrene	340	D	34	17	ug/Kg	5	☼	8270C/DoD	Total/NA

Client Sample ID: LL1SB-642M-0102-SO — Lab Sample ID: 240-1728-46

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	7.2		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	13		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: LL1SB-642M-0103-SO — Lab Sample ID: 240-1728-47

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	11		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]anthracene	37		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[a]pyrene	33		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[b]fluoranthene	39	M	6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[g,h,i]perylene	22	M	6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Benzo[k]fluoranthene	27	M	6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Chrysene	37		6.7	1.1	ug/Kg	1	☼	8270C/DoD	Total/NA
Fluoranthene	86		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Indeno[1,2,3-cd]pyrene	21		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Pyrene	61		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA
Phenanthrene	48		6.7	3.3	ug/Kg	1	☼	8270C/DoD	Total/NA

Client Sample ID: EQUIP RINSATE 2-1-11 — Lab Sample ID: 240-1728-48

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	2.2	B	1.9	0.78	ug/L	1		8270C/DoD	Total/NA
Antimony	0.27	J	2.0	0.21	ug/L	1		6020/DOD	Total Recovera
Cadmium	0.031	J	2.0	0.023	ug/L	1		6020/DOD	Total Recovera

Client Sample ID: LL3SD-416M-0001-SD DUP — Lab Sample ID: G1G140492001X

No Detections

Client Sample ID: LL2SB-512M-0101-SO

Date Collected: 07/01/11 15:50
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-1

Matrix: Solid
Percent Solids: 97.9

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**8.5**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:30	1
Acenaphthylene	**25**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:30	1
Anthracene	**32**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:30	1
Benzo[a]anthracene	**130**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:30	1
Benzo[a]pyrene	**160**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:30	1
Benzo[b]fluoranthene	**190**	**M**	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:30	1
Benzo[g,h,i]perylene	**84**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:30	1
Benzo[k]fluoranthene	**76**	**M**	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:30	1
Chrysene	**120**		6.8	1.1	ug/Kg	☼	07/13/11 11:10	08/01/11 19:30	1
Dibenz(a,h)anthracene	**22**	**M**	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:30	1
Fluoranthene	**220**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:30	1
Fluorene	**13**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:30	1
Indeno[1,2,3-cd]pyrene	**80**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:30	1
Naphthalene	**7.9**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:30	1
Pyrene	**200**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:30	1
Phenanthrene	**100**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:30	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*48*		*45 - 105*	*07/13/11 11:10*	*08/01/11 19:30*	*1*
2-Fluorophenol (Surr)	*53*		*35 - 105*	*07/13/11 11:10*	*08/01/11 19:30*	*1*
Nitrobenzene-d5 (Surr)	*39*		*35 - 100*	*07/13/11 11:10*	*08/01/11 19:30*	*1*
Terphenyl-d14 (Surr)	*66*		*30 - 125*	*07/13/11 11:10*	*08/01/11 19:30*	*1*
2,4,6-Tribromophenol (Surr)	*37*		*35 - 125*	*07/13/11 11:10*	*08/01/11 19:30*	*1*
Phenol-d5 (Surr)	*57*		*40 - 100*	*07/13/11 11:10*	*08/01/11 19:30*	*1*

Client Sample ID: LL2SB-512M-0102-SO

Date Collected: 07/01/11 15:50
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-2

Matrix: Solid
Percent Solids: 97.6

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.4	U	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:13	1
Acenaphthylene	3.4	U	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:13	1
Anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:13	1
Benzo[a]anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:13	1
Benzo[a]pyrene	3.4	U	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:13	1
Benzo[b]fluoranthene	3.4	U	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:13	1
Benzo[g,h,i]perylene	3.4	U	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:13	1
Benzo[k]fluoranthene	3.4	U	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:13	1
Chrysene	3.4	U	6.8	1.1	ug/Kg	☼	07/13/11 11:10	08/01/11 13:13	1
Dibenz(a,h)anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:13	1
Fluoranthene	**11**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:13	1
Fluorene	3.4	U	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:13	1
Indeno[1,2,3-cd]pyrene	3.4	U	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:13	1
Naphthalene	3.4	U	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:13	1
Pyrene	**6.9**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:13	1
Phenanthrene	**11**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:13	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*33*	*Q*	*45 - 105*	*07/13/11 11:10*	*08/01/11 13:13*	*1*

Client Sample ID: LL2SB-512M-0102-SO

Date Collected: 07/01/11 15:50
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-2

Matrix: Solid
Percent Solids: 97.6

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*45*		*35 - 105*	*07/13/11 11:10*	*08/01/11 13:13*	*1*
Nitrobenzene-d5 (Surr)	*33*	*Q*	*35 - 100*	*07/13/11 11:10*	*08/01/11 13:13*	*1*
Terphenyl-d14 (Surr)	*45*		*30 - 125*	*07/13/11 11:10*	*08/01/11 13:13*	*1*
2,4,6-Tribromophenol (Surr)	*36*		*35 - 125*	*07/13/11 11:10*	*08/01/11 13:13*	*1*
Phenol-d5 (Surr)	*47*		*40 - 100*	*07/13/11 11:10*	*08/01/11 13:13*	*1*

Client Sample ID: LL2SB-512M-0103-SO

Date Collected: 07/01/11 15:50
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-3

Matrix: Solid
Percent Solids: 98.2

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.4	U	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:32	1
Acenaphthylene	3.4	U	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:32	1
Anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:32	1
Benzo[a]anthracene	**7.9**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:32	1
Benzo[a]pyrene	**7.1**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:32	1
Benzo[b]fluoranthene	**10**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:32	1
Benzo[g,h,i]perylene	**9.4**	**M**	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:32	1
Benzo[k]fluoranthene	3.4	U	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:32	1
Chrysene	**7.7**		6.8	1.1	ug/Kg	☼	07/13/11 11:10	08/01/11 13:32	1
Dibenz(a,h)anthracene	3.4	U	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:32	1
Fluoranthene	**14**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:32	1
Fluorene	3.4	U	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:32	1
Indeno[1,2,3-cd]pyrene	3.4	U	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:32	1
Naphthalene	3.4	U	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:32	1
Pyrene	**11**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:32	1
Phenanthrene	**14**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 13:32	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*51*		*45 - 105*	*07/13/11 11:10*	*08/01/11 13:32*	*1*
2-Fluorophenol (Surr)	*66*		*35 - 105*	*07/13/11 11:10*	*08/01/11 13:32*	*1*
Nitrobenzene-d5 (Surr)	*54*	*M*	*35 - 100*	*07/13/11 11:10*	*08/01/11 13:32*	*1*
Terphenyl-d14 (Surr)	*65*		*30 - 125*	*07/13/11 11:10*	*08/01/11 13:32*	*1*
2,4,6-Tribromophenol (Surr)	*48*		*35 - 125*	*07/13/11 11:10*	*08/01/11 13:32*	*1*
Phenol-d5 (Surr)	*64*	*M*	*40 - 100*	*07/13/11 11:10*	*08/01/11 13:32*	*1*

Client Sample ID: LL3SD-416M-0001-SD

Date Collected: 07/02/11 08:50
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-4

Matrix: Solid
Percent Solids: 98.0

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**360**	**D**	140	67	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Acenaphthylene	**1600**	**D**	140	67	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Anthracene	**3100**	**D**	140	67	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Benzo[a]anthracene	**8600**	**D**	140	67	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Benzoic acid	6800	U	13000	6800	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20

Client Sample ID: LL3SD-416M-0001-SD
Date Collected: 07/02/11 08:50
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-4
Matrix: Solid
Percent Solids: 98.0

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	**9100**	**D M**	140	67	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Benzo[k]fluoranthene	**5000**	**D M**	140	67	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Benzyl alcohol	550	U	6700	430	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Bis(2-chloroethoxy)methane	550	U	2000	450	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Bis(2-chloroethyl)ether	67	U	2000	41	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
4-Bromophenyl phenyl ether	550	U	1000	270	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Butyl benzyl phthalate	550	U	1000	200	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
2,4-Dimethylphenol	1600	U	3100	410	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Dimethyl phthalate	550	U	1000	350	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
4,6-Dinitro-2-methylphenol	1600	U	3100	1600	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
2,4-Dinitrophenol	1600	U	6700	1600	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
2,4-Dinitrotoluene	550	U	4100	550	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
2,6-Dinitrotoluene	550	U	4100	430	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Fluoranthene	**19000**	**D**	140	67	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Fluorene	**1000**	**D**	140	67	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Hexachlorobenzene	67	U	140	43	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Hexachlorobutadiene	550	U Q	1000	550	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Hexachlorocyclopentadiene	550	U	6700	550	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Hexachloroethane	550	U	1000	180	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
N-Nitrosodiphenylamine	550	U	1000	430	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
N-Nitrosodi-n-propylamine	550	U	1000	550	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
1,4-Dichlorobenzene	550	U	1000	410	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
2-Chloronaphthalene	67	U	1000	67	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
2-Chlorophenol	550	U	1000	550	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
4-Chlorophenyl phenyl ether	550	U	1000	270	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Chrysene	**8200**	**D**	140	22	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Dibenz(a,h)anthracene	**1200**	**D**	140	67	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Dibenzofuran	**550**	**J D**	1000	67	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Benzo[g,h,i]perylene	**4200**	**D**	140	67	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Benzo[a]pyrene	**6800**	**D**	140	67	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Di-n-butyl phthalate	550	U	1000	310	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
1,2-Dichlorobenzene	550	U Q	1000	200	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
1,3-Dichlorobenzene	550	U Q	1000	220	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
3,3'-Dichlorobenzidine	1600	U	2000	370	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
2,4-Dichlorophenol	550	U	3100	410	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Diethyl phthalate	550	U	1000	330	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Indeno[1,2,3-cd]pyrene	**4100**	**D**	140	67	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Isophorone	550	U	1000	270	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
2-Methylnaphthalene	67	U	140	67	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
2-Methylphenol	1600	U	4100	1600	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Naphthalene	**170**	**D**	140	67	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
2-Nitroaniline	550	U	4100	190	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
3-Nitroaniline	1600	U	4100	330	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
4-Nitroaniline	550	U	4100	530	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Nitrobenzene	67	U	2000	45	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
2-Nitrophenol	550	U	1000	550	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
4-Nitrophenol	1600	U	6700	1600	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Pyrene	**13000**	**D**	140	67	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Pentachlorophenol	1600	U	3100	1600	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Phenanthrene	**9200**	**D**	140	67	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20

Client Sample ID: LL3SD-416M-0001-SD
Date Collected: 07/02/11 08:50
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-4
Matrix: Solid
Percent Solids: 98.0

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	550	U Q	1000	550	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
2,4,5-Trichlorophenol	550	U Q	3100	510	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
2,4,6-Trichlorophenol	1600	U Q	3100	1600	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Phenol	550	U	1000	550	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Carbazole	**1100**	**D**	1000	550	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
4-Chloroaniline	550	U	3100	350	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
3 & 4 Methylphenol	1600	U	8200	410	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Bis(2-ethylhexyl) phthalate	550	U	1000	390	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
Di-n-octyl phthalate	550	U	1000	550	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
4-Chloro-3-methylphenol	550	U	3100	430	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20
bis (2-Chloroisopropyl) ether	550	U	2000	190	ug/Kg	☼	07/13/11 11:10	08/01/11 18:52	20

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*52*		*45 - 105*	*07/13/11 11:10*	*08/01/11 18:52*	*20*
2-Fluorophenol (Surr)	*62*	*M*	*35 - 105*	*07/13/11 11:10*	*08/01/11 18:52*	*20*
Nitrobenzene-d5 (Surr)	*56*		*35 - 100*	*07/13/11 11:10*	*08/01/11 18:52*	*20*
Terphenyl-d14 (Surr)	*73*		*30 - 125*	*07/13/11 11:10*	*08/01/11 18:52*	*20*
2,4,6-Tribromophenol (Surr)	*45*		*35 - 125*	*07/13/11 11:10*	*08/01/11 18:52*	*20*
Phenol-d5 (Surr)	*68*		*40 - 100*	*07/13/11 11:10*	*08/01/11 18:52*	*20*

Method: 8081/DOD - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	34	U	100	32	ug/Kg	☼	07/13/11 12:29	08/04/11 21:05	50
4,4'-DDE	34	U	87	20	ug/Kg	☼	07/13/11 12:29	08/04/11 21:05	50
4,4'-DDT	34	U	100	32	ug/Kg	☼	07/13/11 12:29	08/04/11 21:05	50
Aldrin	68	U	200	61	ug/Kg	☼	07/13/11 12:29	08/04/11 21:05	50
alpha-BHC	68	U Q	130	37	ug/Kg	☼	07/13/11 12:29	08/04/11 21:05	50
alpha-Chlordane	68	U	150	48	ug/Kg	☼	07/13/11 12:29	08/04/11 21:05	50
beta-BHC	**130**	**J D**	180	56	ug/Kg	☼	07/13/11 12:29	08/04/11 21:05	50
delta-BHC	68	U	200	61	ug/Kg	☼	07/13/11 12:29	08/04/11 21:05	50
Dieldrin	34	U	87	24	ug/Kg	☼	07/13/11 12:29	08/04/11 21:05	50
Endosulfan I	34	U	87	27	ug/Kg	☼	07/13/11 12:29	08/04/11 21:05	50
Endosulfan II	68	U	130	42	ug/Kg	☼	07/13/11 12:29	08/04/11 21:05	50
Endosulfan sulfate	68	U	150	44	ug/Kg	☼	07/13/11 12:29	08/04/11 21:05	50
Endrin	34	U	87	25	ug/Kg	☼	07/13/11 12:29	08/04/11 21:05	50
Endrin aldehyde	68	U	150	51	ug/Kg	☼	07/13/11 12:29	08/04/11 21:05	50
Endrin ketone	34	U	100	32	ug/Kg	☼	07/13/11 12:29	08/04/11 21:05	50
gamma-BHC (Lindane)	68	U Q	130	38	ug/Kg	☼	07/13/11 12:29	08/04/11 21:05	50
gamma-Chlordane	34	U Q	87	21	ug/Kg	☼	07/13/11 12:29	08/04/11 21:05	50
Heptachlor	68	U	180	56	ug/Kg	☼	07/13/11 12:29	08/04/11 21:05	50
Heptachlor epoxide	68	U	130	41	ug/Kg	☼	07/13/11 12:29	08/04/11 21:05	50
Methoxychlor	170	U	250	76	ug/Kg	☼	07/13/11 12:29	08/04/11 21:05	50
Toxaphene	1000	U M	3400	970	ug/Kg	☼	07/13/11 12:29	08/04/11 21:05	50

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*1624*	*Q*	*55 - 130*	*07/13/11 12:29*	*08/04/11 21:05*	*50*
DCB Decachlorobiphenyl	*122*		*55 - 130*	*07/13/11 12:29*	*08/04/11 21:05*	*50*
Tetrachloro-m-xylene	*243*	*M Q*	*70 - 125*	*07/13/11 12:29*	*08/04/11 21:05*	*50*
Tetrachloro-m-xylene	*76*		*70 - 125*	*07/13/11 12:29*	*08/04/11 21:05*	*50*

Client Sample ID: LL3SD-416M-0001-SD
Date Collected: 07/02/11 08:50
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-4
Matrix: Solid
Percent Solids: 98.0

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/13/11 13:31	07/20/11 20:30	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/13/11 13:31	07/20/11 20:30	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/13/11 13:31	07/20/11 20:30	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/13/11 13:31	07/20/11 20:30	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/13/11 13:31	07/20/11 20:30	1
Aroclor 1254	**44**	**J**	56	17	ug/Kg	☼	07/13/11 13:31	07/20/11 20:30	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/13/11 13:31	07/20/11 20:30	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*40 - 140*	*07/13/11 13:31*	*07/20/11 20:30*	*1*
Tetrachloro-m-xylene	*64*		*40 - 140*	*07/13/11 13:31*	*07/20/11 20:30*	*1*
DCB Decachlorobiphenyl	*322*	*Q*	*60 - 125*	*07/13/11 13:31*	*07/20/11 20:30*	*1*
DCB Decachlorobiphenyl	*146*	*Q*	*60 - 125*	*07/13/11 13:31*	*07/20/11 20:30*	*1*

Method: 8330 (Modified) - Organic Compounds by UV/HPLC

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	0.039 U		0.24	0.020	mg/kg		07/15/11 12:00	07/27/11 16:41	0.98

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**0.031**	**J PG**	0.25	0.020	mg/kg		07/15/11 12:00	07/29/11 02:47	0.99
1,3-Dinitrobenzene	0.099 U		0.25	0.050	mg/kg		07/15/11 12:00	07/29/11 02:47	0.99
2,4,6-Trinitrotoluene	**0.32**		0.25	0.020	mg/kg		07/15/11 12:00	07/29/11 02:47	0.99
2,4-Dinitrotoluene	0.099 U		0.25	0.020	mg/kg		07/15/11 12:00	07/29/11 02:47	0.99
2,6-Dinitrotoluene	0.099 U		0.25	0.030	mg/kg		07/15/11 12:00	07/29/11 02:47	0.99
2-Amino-4,6-dinitrotoluene	0.099 U		0.25	0.099	mg/kg		07/15/11 12:00	07/29/11 02:47	0.99
2-Nitrotoluene	0.099 U		0.25	0.079	mg/kg		07/15/11 12:00	07/29/11 02:47	0.99
3-Nitrotoluene	0.099 U		0.25	0.069	mg/kg		07/15/11 12:00	07/29/11 02:47	0.99
4-Amino-2,6-dinitrotoluene	0.099 U		0.25	0.020	mg/kg		07/15/11 12:00	07/29/11 02:47	0.99
4-Nitrotoluene	0.099 U		0.25	0.079	mg/kg		07/15/11 12:00	07/29/11 02:47	0.99
HMX	0.099 U		0.25	0.030	mg/kg		07/15/11 12:00	07/29/11 02:47	0.99
Nitrobenzene	**0.11**	**J PG**	0.25	0.050	mg/kg		07/15/11 12:00	07/29/11 02:47	0.99
Nitroglycerin	0.25 U		0.50	0.13	mg/kg		07/15/11 12:00	07/29/11 02:47	0.99
PETN	0.25 U		0.50	0.16	mg/kg		07/15/11 12:00	07/29/11 02:47	0.99
RDX	0.099 U		0.25	0.040	mg/kg		07/15/11 12:00	07/29/11 02:47	0.99
Tetryl	**0.12**	**J PG**	0.25	0.050	mg/kg		07/15/11 12:00	07/29/11 02:47	0.99

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*90*		*78 - 108*	*07/15/11 12:00*	*07/29/11 02:47*	*0.99*

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**	**D**	86	22	mg/Kg	☼	07/15/11 12:40	08/29/11 14:16	10
Antimony	**1.4**		0.17	0.054	mg/Kg	☼	07/15/11 12:40	08/25/11 22:49	1
Arsenic	**14**		0.43	0.045	mg/Kg	☼	07/15/11 12:40	08/25/11 22:49	1
Barium	**150**		0.43	0.11	mg/Kg	☼	07/15/11 12:40	08/25/11 22:49	1
Beryllium	**1.3**	**D**	0.86	0.030	mg/Kg	☼	07/15/11 12:40	08/29/11 14:16	10
Cadmium	**1.0**	**J D**	1.7	0.027	mg/Kg	☼	07/15/11 12:40	08/29/11 14:16	10
Calcium	**15000**	**D**	1700	350	mg/Kg	☼	07/15/11 12:40	08/29/11 14:16	10
Chromium	**26**		0.43	0.14	mg/Kg	☼	07/15/11 12:40	08/25/11 22:49	1
Cobalt	**21**	**D**	0.86	0.039	mg/Kg	☼	07/15/11 12:40	08/29/11 14:16	10

Client Sample ID: LL3SD-416M-0001-SD

Date Collected: 07/02/11 08:50
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-4

Matrix: Solid
Percent Solids: 98.0

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	9.6		0.35	0.095	mg/Kg	☼	07/15/11 12:40	08/25/11 22:49	1
Iron	24000		43	9.4	mg/Kg	☼	07/15/11 12:40	08/25/11 22:49	1
Lead	23		0.26	0.061	mg/Kg	☼	07/15/11 12:40	08/25/11 22:49	1
Magnesium	3400		86	7.7	mg/Kg	☼	07/15/11 12:40	08/25/11 22:49	1
Manganese	3700	D	4.3	1.4	mg/Kg	☼	07/15/11 12:40	08/29/11 14:16	10
Nickel	28		0.43	0.075	mg/Kg	☼	07/15/11 12:40	08/25/11 22:49	1
Potassium	730		86	3.3	mg/Kg	☼	07/15/11 12:40	08/25/11 22:49	1
Selenium	1.1		0.43	0.018	mg/Kg	☼	07/15/11 12:40	08/25/11 22:49	1
Silver	0.43	U	0.86	0.14	mg/Kg	☼	07/15/11 12:40	08/29/11 14:16	10
Sodium	110		86	12	mg/Kg	☼	07/15/11 12:40	08/25/11 22:49	1
Thallium	0.16	J	0.17	0.049	mg/Kg	☼	07/15/11 12:40	08/25/11 22:49	1
Vanadium	23		0.43	0.037	mg/Kg	☼	07/15/11 12:40	08/25/11 22:49	1
Zinc	160	D	35	8.6	mg/Kg	☼	07/15/11 12:40	08/29/11 14:16	10

Method: 7471/DOD - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.30		0.085	0.012	mg/Kg	☼	07/15/11 15:30	07/18/11 17:06	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	0.46	J	0.82	0.28	mg/Kg	☼	07/18/11 14:13	07/20/11 16:15	1

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	1.4	J	5.1	0.80	mg/kg	☼	07/20/11 05:35	07/21/11 12:43	1

Client Sample ID: LL3SD-416V-0001-SD

Date Collected: 07/02/11 08:50
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-5

Matrix: Solid
Percent Solids: 81.2

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	9.3	U	230	20	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
1,1,2,2-Tetrachloroethane	23	U	230	8.3	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
1,1,2-Trichloroethane	23	U	230	11	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
1,1-Dichloroethane	23	U	230	16	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
1,1-Dichloroethene	23	U	230	17	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
1,2-Dichloroethane	23	U	230	9.3	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
1,2-Dichloroethene, Total	7.7	U	470	7.7	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
1,2-Dichloropropane	9.3	U	230	7.7	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
2-Butanone	93	U	930	40	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
2-Hexanone	47	U	930	19	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
4-Methyl-2-pentanone	93	U	930	45	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
Acetone	190	U	930	160	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
Benzene	23	U	230	11	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
Bromoform	23	U	230	18	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
Bromomethane	47	U	230	27	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
Carbon disulfide	42	J	230	11	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
Carbon tetrachloride	9.3	U	230	6.0	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
Chlorobenzene	9.3	U	230	6.0	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
Chloromethane	23	U	230	13	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
cis-1,2-Dichloroethene	9.3	U	230	6.4	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1

Client Sample ID: LL3SD-416V-0001-SD

Date Collected: 07/02/11 08:50
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-5

Matrix: Solid
Percent Solids: 81.2

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	9.3	U	230	7.4	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
Dibromochloromethane	23	U	230	11	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
Bromodichloromethane	23	U	230	9.2	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
Ethylbenzene	9.3	U	230	5.0	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
Methylene Chloride	**150**	**J**	230	72	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
Styrene	9.3	U	230	5.2	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
Tetrachloroethene	23	U	230	11	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
Toluene	23	U	230	16	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
trans-1,2-Dichloroethene	23	U	230	8.6	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
trans-1,3-Dichloropropene	23	U	230	19	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
Trichloroethene	23	U	230	9.1	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
Vinyl chloride	23	U	230	17	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
Xylenes (total)	28	U	470	7.6	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
Chloroform	23	U	230	8.2	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
Bromochloromethane	23	U	230	12	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
1,2-Dibromoethane	23	U	230	9.3	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1
Chloroethane	93	U	230	57	ug/Kg	☼	07/12/11 15:40	07/12/11 21:37	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*74*	*Q*	*85 - 115*	*07/12/11 15:40*	*07/12/11 21:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*61 - 130*	*07/12/11 15:40*	*07/12/11 21:37*	*1*
4-Bromofluorobenzene (Surr)	*74*	*Q*	*85 - 120*	*07/12/11 15:40*	*07/12/11 21:37*	*1*
Dibromofluoromethane (Surr)	*67*		*59 - 138*	*07/12/11 15:40*	*07/12/11 21:37*	*1*

Client Sample ID: LL3SD-417M-0001-SD

Date Collected: 07/02/11 08:50
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-6

Matrix: Solid
Percent Solids: 98.0

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**130**	**D**	45	22	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Acenaphthylene	**550**	**D**	45	22	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Anthracene	**1000**	**D**	45	22	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Benzo[a]anthracene	**2900**	**D**	45	22	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Benzoic acid	2300	U	4500	2300	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Benzo[b]fluoranthene	**3100**	**D M**	45	22	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Benzo[k]fluoranthene	**1900**	**D M**	45	22	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Benzyl alcohol	180	U	2200	140	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Bis(2-chloroethoxy)methane	180	U	680	150	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Bis(2-chloroethyl)ether	22	U	680	14	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
4-Bromophenyl phenyl ether	180	U	340	88	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Butyl benzyl phthalate	180	U	340	68	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
2,4-Dimethylphenol	540	U	1000	140	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Dimethyl phthalate	180	U	340	120	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
4,6-Dinitro-2-methylphenol	540	U	1000	540	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
2,4-Dinitrophenol	540	U	2200	540	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
2,4-Dinitrotoluene	180	U	1400	180	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
2,6-Dinitrotoluene	180	U	1400	140	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Fluoranthene	**5500**	**D**	45	22	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Fluorene	**320**	**D M**	45	22	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667

Client Sample ID: LL3SD-417M-0001-SD
Date Collected: 07/02/11 08:50
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-6
Matrix: Solid
Percent Solids: 98.0

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	22	U	45	14	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Hexachlorobutadiene	180	U Q	340	180	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Hexachlorocyclopentadiene	180	U	2200	180	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Hexachloroethane	180	U	340	61	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
N-Nitrosodiphenylamine	180	U	340	140	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
N-Nitrosodi-n-propylamine	180	U	340	180	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
1,4-Dichlorobenzene	180	U	340	140	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
2-Chloronaphthalene	22	U	340	22	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
2-Chlorophenol	180	U	340	180	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
4-Chlorophenyl phenyl ether	180	U	340	88	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Chrysene	**2500**	**D**	45	7.5	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Dibenz(a,h)anthracene	**590**	**D**	45	22	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Dibenzofuran	**200**	**J D**	340	22	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Benzo[g,h,i]perylene	**1500**	**D**	45	22	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Benzo[a]pyrene	**2500**	**D**	45	22	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Di-n-butyl phthalate	180	U	340	100	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
1,2-Dichlorobenzene	180	U Q	340	66	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
1,3-Dichlorobenzene	180	U Q	340	75	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
3,3'-Dichlorobenzidine	540	U	680	120	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
2,4-Dichlorophenol	180	U	1000	140	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Diethyl phthalate	180	U	340	110	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Indeno[1,2,3-cd]pyrene	**1500**	**D**	45	22	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Isophorone	180	U	340	88	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
2-Methylnaphthalene	**88**	**D**	45	22	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
2-Methylphenol	540	U	1400	540	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Naphthalene	**74**	**D**	45	22	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
2-Nitroaniline	180	U	1400	62	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
3-Nitroaniline	540	U	1400	110	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
4-Nitroaniline	180	U	1400	180	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Nitrobenzene	22	U	680	15	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
2-Nitrophenol	180	U	340	180	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
4-Nitrophenol	540	U	2200	540	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Pyrene	**4000**	**D**	45	22	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Pentachlorophenol	540	U	1000	540	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Phenanthrene	**2800**	**D**	45	22	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
1,2,4-Trichlorobenzene	180	U Q	340	180	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
2,4,5-Trichlorophenol	180	U Q	1000	170	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
2,4,6-Trichlorophenol	540	U Q	1000	540	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Phenol	180	U	340	180	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Carbazole	**400**	**D**	340	180	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
4-Chloroaniline	180	U	1000	120	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
3 & 4 Methylphenol	540	U	2700	140	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Bis(2-ethylhexyl) phthalate	180	U	340	130	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
Di-n-octyl phthalate	180	U	340	180	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
4-Chloro-3-methylphenol	180	U	1000	140	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667
bis (2-Chloroisopropyl) ether	180	U	680	65	ug/Kg	☼	07/13/11 11:10	08/01/11 18:15	6.667

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*46*		*45 - 105*	*07/13/11 11:10*	*08/01/11 18:15*	*6.667*
2-Fluorophenol (Surr)	*59*	*M*	*35 - 105*	*07/13/11 11:10*	*08/01/11 18:15*	*6.667*

Client Sample ID: LL3SD-417M-0001-SD
Date Collected: 07/02/11 08:50
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-6
Matrix: Solid
Percent Solids: 98.0

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	*47*		*35 - 100*	*07/13/11 11:10*	*08/01/11 18:15*	*6.667*
Terphenyl-d14 (Surr)	*61*		*30 - 125*	*07/13/11 11:10*	*08/01/11 18:15*	*6.667*
2,4,6-Tribromophenol (Surr)	*40*		*35 - 125*	*07/13/11 11:10*	*08/01/11 18:15*	*6.667*
Phenol-d5 (Surr)	*62*		*40 - 100*	*07/13/11 11:10*	*08/01/11 18:15*	*6.667*

Method: 8081/DOD - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	34	U	100	32	ug/Kg	☼	07/13/11 12:29	07/31/11 00:13	50
4,4'-DDE	34	U	87	20	ug/Kg	☼	07/13/11 12:29	07/31/11 00:13	50
4,4'-DDT	34	U	100	32	ug/Kg	☼	07/13/11 12:29	07/31/11 00:13	50
Aldrin	68	U	200	61	ug/Kg	☼	07/13/11 12:29	07/31/11 00:13	50
alpha-BHC	68	U Q	130	37	ug/Kg	☼	07/13/11 12:29	07/31/11 00:13	50
alpha-Chlordane	68	U	150	48	ug/Kg	☼	07/13/11 12:29	07/31/11 00:13	50
beta-BHC	**130**	**J D Q**	180	56	ug/Kg	☼	07/13/11 12:29	07/31/11 00:13	50
delta-BHC	68	U	200	61	ug/Kg	☼	07/13/11 12:29	07/31/11 00:13	50
Dieldrin	34	U	87	24	ug/Kg	☼	07/13/11 12:29	07/31/11 00:13	50
Endosulfan I	34	U	87	27	ug/Kg	☼	07/13/11 12:29	07/31/11 00:13	50
Endosulfan II	68	U	130	42	ug/Kg	☼	07/13/11 12:29	07/31/11 00:13	50
Endosulfan sulfate	68	U	150	44	ug/Kg	☼	07/13/11 12:29	07/31/11 00:13	50
Endrin	34	U	87	26	ug/Kg	☼	07/13/11 12:29	07/31/11 00:13	50
Endrin aldehyde	68	U	150	51	ug/Kg	☼	07/13/11 12:29	07/31/11 00:13	50
Endrin ketone	34	U	100	32	ug/Kg	☼	07/13/11 12:29	07/31/11 00:13	50
gamma-BHC (Lindane)	68	U Q	130	38	ug/Kg	☼	07/13/11 12:29	07/31/11 00:13	50
gamma-Chlordane	34	U Q	87	21	ug/Kg	☼	07/13/11 12:29	07/31/11 00:13	50
Heptachlor	68	U	180	56	ug/Kg	☼	07/13/11 12:29	07/31/11 00:13	50
Heptachlor epoxide	68	U	130	41	ug/Kg	☼	07/13/11 12:29	07/31/11 00:13	50
Methoxychlor	170	U	260	77	ug/Kg	☼	07/13/11 12:29	07/31/11 00:13	50
Toxaphene	1000	U M	3400	970	ug/Kg	☼	07/13/11 12:29	07/31/11 00:13	50

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*0*	*Q*	*55 - 130*	*07/13/11 12:29*	*07/31/11 00:13*	*50*
DCB Decachlorobiphenyl	*0*	*Q*	*55 - 130*	*07/13/11 12:29*	*07/31/11 00:13*	*50*
Tetrachloro-m-xylene	*2363*	*Q*	*70 - 125*	*07/13/11 12:29*	*07/31/11 00:13*	*50*
Tetrachloro-m-xylene	*120*		*70 - 125*	*07/13/11 12:29*	*07/31/11 00:13*	*50*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/13/11 13:31	07/20/11 20:45	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/13/11 13:31	07/20/11 20:45	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/13/11 13:31	07/20/11 20:45	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/13/11 13:31	07/20/11 20:45	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/13/11 13:31	07/20/11 20:45	1
Aroclor 1254	**86**		56	17	ug/Kg	☼	07/13/11 13:31	07/20/11 20:45	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/13/11 13:31	07/20/11 20:45	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*68*		*40 - 140*	*07/13/11 13:31*	*07/20/11 20:45*	*1*
Tetrachloro-m-xylene	*67*		*40 - 140*	*07/13/11 13:31*	*07/20/11 20:45*	*1*
DCB Decachlorobiphenyl	*208*	*Q*	*60 - 125*	*07/13/11 13:31*	*07/20/11 20:45*	*1*
DCB Decachlorobiphenyl	*152*	*Q*	*60 - 125*	*07/13/11 13:31*	*07/20/11 20:45*	*1*

Client Sample ID: LL3SD-417M-0001-SD
Date Collected: 07/02/11 08:50
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-6
Matrix: Solid

Method: 8330 (Modified) - Organic Compounds by UV/HPLC

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	0.039 U		0.24	0.019	mg/kg		07/15/11 12:00	07/27/11 16:55	0.97

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.096 U		0.24	0.019	mg/kg		07/15/11 12:00	07/29/11 03:27	0.96
1,3-Dinitrobenzene	0.096 U		0.24	0.048	mg/kg		07/15/11 12:00	07/29/11 03:27	0.96
2,4,6-Trinitrotoluene	**0.27**		0.24	0.019	mg/kg		07/15/11 12:00	07/29/11 03:27	0.96
2,4-Dinitrotoluene	0.096 U		0.24	0.019	mg/kg		07/15/11 12:00	07/29/11 03:27	0.96
2,6-Dinitrotoluene	0.096 U		0.24	0.029	mg/kg		07/15/11 12:00	07/29/11 03:27	0.96
2-Amino-4,6-dinitrotoluene	0.096 U		0.24	0.096	mg/kg		07/15/11 12:00	07/29/11 03:27	0.96
2-Nitrotoluene	0.096 U		0.24	0.077	mg/kg		07/15/11 12:00	07/29/11 03:27	0.96
3-Nitrotoluene	0.096 U		0.24	0.067	mg/kg		07/15/11 12:00	07/29/11 03:27	0.96
4-Amino-2,6-dinitrotoluene	0.096 U		0.24	0.019	mg/kg		07/15/11 12:00	07/29/11 03:27	0.96
4-Nitrotoluene	0.096 U		0.24	0.077	mg/kg		07/15/11 12:00	07/29/11 03:27	0.96
HMX	0.096 U		0.24	0.029	mg/kg		07/15/11 12:00	07/29/11 03:27	0.96
Nitrobenzene	0.096 U		0.24	0.048	mg/kg		07/15/11 12:00	07/29/11 03:27	0.96
Nitroglycerin	0.24 U		0.48	0.12	mg/kg		07/15/11 12:00	07/29/11 03:27	0.96
PETN	0.24 U		0.48	0.15	mg/kg		07/15/11 12:00	07/29/11 03:27	0.96
RDX	0.096 U		0.24	0.038	mg/kg		07/15/11 12:00	07/29/11 03:27	0.96
Tetryl	0.096 U		0.24	0.048	mg/kg		07/15/11 12:00	07/29/11 03:27	0.96

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*91*		*78 - 108*	*07/15/11 12:00*	*07/29/11 03:27*	*0.96*

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9400**	**D**	99	25	mg/Kg	☼	07/15/11 12:40	08/29/11 14:51	10
Antimony	**1.5**		0.20	0.061	mg/Kg	☼	07/15/11 12:40	08/25/11 23:24	1
Arsenic	**13**		0.50	0.052	mg/Kg	☼	07/15/11 12:40	08/25/11 23:24	1
Barium	**130**		0.50	0.13	mg/Kg	☼	07/15/11 12:40	08/25/11 23:24	1
Beryllium	**1.2**	**D**	0.99	0.035	mg/Kg	☼	07/15/11 12:40	08/29/11 14:51	10
Cadmium	**1.1**	**J D**	2.0	0.031	mg/Kg	☼	07/15/11 12:40	08/29/11 14:51	10
Calcium	**9800**		200	40	mg/Kg	☼	07/15/11 12:40	08/25/11 23:24	1
Chromium	**31**		0.50	0.16	mg/Kg	☼	07/15/11 12:40	08/25/11 23:24	1
Cobalt	**19**	**D**	0.99	0.045	mg/Kg	☼	07/15/11 12:40	08/29/11 14:51	10
Copper	**10**		0.40	0.11	mg/Kg	☼	07/15/11 12:40	08/25/11 23:24	1
Iron	**25000**		50	11	mg/Kg	☼	07/15/11 12:40	08/25/11 23:24	1
Lead	**22**		0.30	0.070	mg/Kg	☼	07/15/11 12:40	08/25/11 23:24	1
Magnesium	**2400**		99	8.8	mg/Kg	☼	07/15/11 12:40	08/25/11 23:24	1
Manganese	**3400**	**D**	5.0	1.6	mg/Kg	☼	07/15/11 12:40	08/29/11 14:51	10
Nickel	**30**		0.50	0.086	mg/Kg	☼	07/15/11 12:40	08/25/11 23:24	1
Potassium	**670**		99	3.7	mg/Kg	☼	07/15/11 12:40	08/25/11 23:24	1
Selenium	**1.1**		0.50	0.021	mg/Kg	☼	07/15/11 12:40	08/25/11 23:24	1
Silver	0.50	U	0.99	0.16	mg/Kg	☼	07/15/11 12:40	08/29/11 14:51	10
Sodium	**69**	**J**	99	14	mg/Kg	☼	07/15/11 12:40	08/25/11 23:24	1
Thallium	**0.13**	**J**	0.20	0.056	mg/Kg	☼	07/15/11 12:40	08/25/11 23:24	1
Vanadium	**23**		0.50	0.043	mg/Kg	☼	07/15/11 12:40	08/25/11 23:24	1
Zinc	**170**	**D**	40	9.9	mg/Kg	☼	07/15/11 12:40	08/29/11 14:51	10

Client Sample ID: LL3SD-417M-0001-SD

Lab Sample ID: 240-1728-6

Date Collected: 07/02/11 08:50
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 98.0

Method: 7471/DOD - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.33**		0.080	0.011	mg/Kg	☼	07/15/11 15:30	07/18/11 17:13	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	**0.45**	**J**	0.82	0.28	mg/Kg	☼	07/18/11 14:13	07/20/11 16:16	1

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	**1.4**	**J**	5.2	0.81	mg/kg	☼	07/20/11 05:35	07/21/11 12:45	1

Client Sample ID: LL3SD-417V-0001-SD

Lab Sample ID: 240-1728-7

Date Collected: 07/02/11 08:50
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 84.0

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	8.3	U	210	17	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
1,1,2,2-Tetrachloroethane	21	U	210	7.4	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
1,1,2-Trichloroethane	21	U	210	10	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
1,1-Dichloroethane	21	U	210	14	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
1,1-Dichloroethene	21	U	210	15	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
1,2-Dichloroethane	21	U	210	8.3	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
1,2-Dichloroethene, Total	6.8	U	410	6.8	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
1,2-Dichloropropane	8.3	U	210	6.8	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
2-Butanone	83	U	830	36	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
2-Hexanone	41	U	830	17	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
4-Methyl-2-pentanone	83	U	830	40	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
Acetone	170	U	830	140	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
Benzene	21	U	210	10	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
Bromoform	21	U	210	16	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
Bromomethane	41	U	210	24	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
Carbon disulfide	**38**	**J**	210	10	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
Carbon tetrachloride	8.3	U	210	5.3	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
Chlorobenzene	8.3	U	210	5.3	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
Chloromethane	21	U	210	12	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
cis-1,2-Dichloroethene	8.3	U	210	5.7	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
cis-1,3-Dichloropropene	8.3	U	210	6.6	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
Dibromochloromethane	21	U	210	10	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
Bromodichloromethane	21	U	210	8.2	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
Ethylbenzene	**23**	**J**	210	4.5	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
Methylene Chloride	**130**	**J**	210	64	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
Styrene	8.3	U	210	4.6	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
Tetrachloroethene	21	U	210	10	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
Toluene	**51**	**J**	210	14	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
trans-1,2-Dichloroethene	21	U	210	7.6	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
trans-1,3-Dichloropropene	21	U	210	17	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
Trichloroethene	21	U	210	8.0	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
Vinyl chloride	21	U	210	15	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
Xylenes (total)	**220**	**J**	410	6.7	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
Chloroform	21	U	210	7.3	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
Bromochloromethane	21	U	210	11	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1

Client Sample ID: LL3SD-417V-0001-SD

Lab Sample ID: 240-1728-7

Date Collected: 07/02/11 08:50
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 84.0

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	21	U	210	8.3	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1
Chloroethane	83	U	210	51	ug/Kg	☼	07/12/11 15:40	07/12/11 21:58	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*76*	*Q*	*85 - 115*	*07/12/11 15:40*	*07/12/11 21:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*61 - 130*	*07/12/11 15:40*	*07/12/11 21:58*	*1*
4-Bromofluorobenzene (Surr)	*76*	*Q*	*85 - 120*	*07/12/11 15:40*	*07/12/11 21:58*	*1*
Dibromofluoromethane (Surr)	*68*		*59 - 138*	*07/12/11 15:40*	*07/12/11 21:58*	*1*

Client Sample ID: LL3SS-419M-0001-SO

Lab Sample ID: 240-1728-8

Date Collected: 07/02/11 12:30
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 99.0

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**100**		13	6.7	ug/Kg	☼	07/13/11 11:10	08/01/11 15:07	2
Acenaphthylene	6.7	U	13	6.7	ug/Kg	☼	07/13/11 11:10	08/01/11 15:07	2
Anthracene	**300**	**J**	13	6.7	ug/Kg	☼	07/13/11 11:10	08/01/11 15:07	2
Benzo[a]anthracene	**480**	**J**	13	6.7	ug/Kg	☼	07/13/11 11:10	08/01/11 15:07	2
Benzo[a]pyrene	**400**	**J**	13	6.7	ug/Kg	☼	07/13/11 11:10	08/01/11 15:07	2
Benzo[b]fluoranthene	**440**	**M J**	13	6.7	ug/Kg	☼	07/13/11 11:10	08/01/11 15:07	2
Benzo[g,h,i]perylene	**250**	**J**	13	6.7	ug/Kg	☼	07/13/11 11:10	08/01/11 15:07	2
Benzo[k]fluoranthene	**290**	**M J**	13	6.7	ug/Kg	☼	07/13/11 11:10	08/01/11 15:07	2
Chrysene	**470**	**J**	13	2.2	ug/Kg	☼	07/13/11 11:10	08/01/11 15:07	2
Dibenz(a,h)anthracene	**56**		13	6.7	ug/Kg	☼	07/13/11 11:10	08/01/11 15:07	2
Fluoranthene	**1200**	**J**	13	6.7	ug/Kg	☼	07/13/11 11:10	08/01/11 15:07	2
Fluorene	**120**	**J**	13	6.7	ug/Kg	☼	07/13/11 11:10	08/01/11 15:07	2
Indeno[1,2,3-cd]pyrene	**220**	**J**	13	6.7	ug/Kg	☼	07/13/11 11:10	08/01/11 15:07	2
Naphthalene	**79**		13	6.7	ug/Kg	☼	07/13/11 11:10	08/01/11 15:07	2
Pyrene	**930**	**J**	13	6.7	ug/Kg	☼	07/13/11 11:10	08/01/11 15:07	2
Phenanthrene	**990**	**J**	13	6.7	ug/Kg	☼	07/13/11 11:10	08/01/11 15:07	2

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*50*		*45 - 105*	*07/13/11 11:10*	*08/01/11 15:07*	*2*
2-Fluorophenol (Surr)	*61*		*35 - 105*	*07/13/11 11:10*	*08/01/11 15:07*	*2*
Nitrobenzene-d5 (Surr)	*50*		*35 - 100*	*07/13/11 11:10*	*08/01/11 15:07*	*2*
Terphenyl-d14 (Surr)	*65*		*30 - 125*	*07/13/11 11:10*	*08/01/11 15:07*	*2*
2,4,6-Tribromophenol (Surr)	*33*	*Q*	*35 - 125*	*07/13/11 11:10*	*08/01/11 15:07*	*2*
Phenol-d5 (Surr)	*60*		*40 - 100*	*07/13/11 11:10*	*08/01/11 15:07*	*2*

Client Sample ID: LL3SS-420M-0001-SO

Lab Sample ID: 240-1728-10

Date Collected: 07/02/11 12:30
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 98.4

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**9.3**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 16:41	1
Acenaphthylene	**9.4**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 16:41	1
Anthracene	**24**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 16:41	1

Client Sample ID: LL3SS-420M-0001-SO

Date Collected: 07/02/11 12:30
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-10

Matrix: Solid
Percent Solids: 98.4

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	78		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 16:41	1
Benzo[a]pyrene	70		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 16:41	1
Benzo[b]fluoranthene	99	M	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 16:41	1
Benzo[g,h,i]perylene	50		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 16:41	1
Benzo[k]fluoranthene	51	M	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 16:41	1
Chrysene	79		6.8	1.1	ug/Kg	☼	07/13/11 11:10	08/08/11 16:41	1
Dibenz(a,h)anthracene	8.8		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 16:41	1
Fluoranthene	160		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 16:41	1
Fluorene	12		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 16:41	1
Indeno[1,2,3-cd]pyrene	46		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 16:41	1
Naphthalene	12		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 16:41	1
Pyrene	130		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 16:41	1
Phenanthrene	100		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 16:41	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*54*		*45 - 105*	*07/13/11 11:10*	*08/08/11 16:41*	*1*
2-Fluorophenol (Surr)	*62*		*35 - 105*	*07/13/11 11:10*	*08/08/11 16:41*	*1*
Nitrobenzene-d5 (Surr)	*51*		*35 - 100*	*07/13/11 11:10*	*08/08/11 16:41*	*1*
Terphenyl-d14 (Surr)	*78*		*30 - 125*	*07/13/11 11:10*	*08/08/11 16:41*	*1*
2,4,6-Tribromophenol (Surr)	*39*		*35 - 125*	*07/13/11 11:10*	*08/08/11 16:41*	*1*
Phenol-d5 (Surr)	*67*		*40 - 100*	*07/13/11 11:10*	*08/08/11 16:41*	*1*

Client Sample ID: LL3SS-421M-0001-SO

Date Collected: 07/02/11 15:00
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-11

Matrix: Solid
Percent Solids: 97.7

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	12		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:49	1
Acenaphthylene	78		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:49	1
Anthracene	54		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:49	1
Benzo[a]anthracene	250		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:49	1
Benzo[a]pyrene	260		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:49	1
Benzo[b]fluoranthene	400	M	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:49	1
Benzo[g,h,i]perylene	190		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:49	1
Benzo[k]fluoranthene	240	M	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:49	1
Chrysene	280		6.8	1.1	ug/Kg	☼	07/13/11 11:10	08/01/11 19:49	1
Dibenz(a,h)anthracene	60		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:49	1
Fluoranthene	390		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:49	1
Fluorene	15		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:49	1
Indeno[1,2,3-cd]pyrene	200		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:49	1
Naphthalene	25		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:49	1
Pyrene	350		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:49	1
Phenanthrene	140		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/01/11 19:49	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*52*		*45 - 105*	*07/13/11 11:10*	*08/01/11 19:49*	*1*
2-Fluorophenol (Surr)	*59*		*35 - 105*	*07/13/11 11:10*	*08/01/11 19:49*	*1*
Nitrobenzene-d5 (Surr)	*45*		*35 - 100*	*07/13/11 11:10*	*08/01/11 19:49*	*1*
Terphenyl-d14 (Surr)	*64*		*30 - 125*	*07/13/11 11:10*	*08/01/11 19:49*	*1*

Client Sample ID: LL3SS-421M-0001-SO

Date Collected: 07/02/11 15:00
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-11

Matrix: Solid
Percent Solids: 97.7

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*52*		*35 - 125*	*07/13/11 11:10*	*08/01/11 19:49*	*1*
Phenol-d5 (Surr)	*66*		*40 - 100*	*07/13/11 11:10*	*08/01/11 19:49*	*1*

Client Sample ID: LL3SB-422M-0001-SO

Date Collected: 07/02/11 15:00
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-12

Matrix: Solid
Percent Solids: 98.2

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.4	U	6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 19:49	1
Acenaphthylene	**9.8**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 19:49	1
Anthracene	**14**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 19:49	1
Benzo[a]anthracene	**55**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 19:49	1
Benzo[a]pyrene	**65**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 19:49	1
Benzo[b]fluoranthene	**89**	**M**	6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 19:49	1
Benzo[g,h,i]perylene	**50**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 19:49	1
Benzo[k]fluoranthene	**49**	**M**	6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 19:49	1
Chrysene	**71**		6.8	1.1	ug/Kg	☼	07/14/11 10:52	07/29/11 19:49	1
Dibenz(a,h)anthracene	**12**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 19:49	1
Fluoranthene	**120**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 19:49	1
Fluorene	**7.3**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 19:49	1
Indeno[1,2,3-cd]pyrene	**46**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 19:49	1
Naphthalene	**12**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 19:49	1
Pyrene	**96**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 19:49	1
Phenanthrene	**52**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 19:49	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*62*		*45 - 105*	*07/14/11 10:52*	*07/29/11 19:49*	*1*
2-Fluorophenol (Surr)	*69*		*35 - 105*	*07/14/11 10:52*	*07/29/11 19:49*	*1*
Nitrobenzene-d5 (Surr)	*59*		*35 - 100*	*07/14/11 10:52*	*07/29/11 19:49*	*1*
Terphenyl-d14 (Surr)	*76*		*30 - 125*	*07/14/11 10:52*	*07/29/11 19:49*	*1*
2,4,6-Tribromophenol (Surr)	*51*		*35 - 125*	*07/14/11 10:52*	*07/29/11 19:49*	*1*
Phenol-d5 (Surr)	*63*		*40 - 100*	*07/14/11 10:52*	*07/29/11 19:49*	*1*

Client Sample ID: LL2SS-519M-0001-SO

Date Collected: 07/02/11 16:15
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-13

Matrix: Solid
Percent Solids: 98.1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**37**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 20:08	1
Acenaphthylene	**130**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 20:08	1
Anthracene	**170**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 20:08	1
Benzo[a]anthracene	**520**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 20:08	1
Benzo[a]pyrene	**590**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 20:08	1
Benzo[b]fluoranthene	**630**	**M**	6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 20:08	1
Benzo[g,h,i]perylene	**430**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 20:08	1
Benzo[k]fluoranthene	**410**	**M**	6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 20:08	1

Client Sample ID: LL2SS-519M-0001-SO

Date Collected: 07/02/11 16:15
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-13

Matrix: Solid
Percent Solids: 98.1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**550**		6.8	1.1	ug/Kg	☼	07/14/11 10:52	07/29/11 20:08	1
Dibenz(a,h)anthracene	**97**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 20:08	1
Fluoranthene	**1100**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 20:08	1
Fluorene	**76**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 20:08	1
Indeno[1,2,3-cd]pyrene	**400**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 20:08	1
Naphthalene	**30**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 20:08	1
Pyrene	**850**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 20:08	1
Phenanthrene	**560**		6.8	3.4	ug/Kg	☼	07/14/11 10:52	07/29/11 20:08	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*56*		*45 - 105*	*07/14/11 10:52*	*07/29/11 20:08*	*1*
2-Fluorophenol (Surr)	*56*		*35 - 105*	*07/14/11 10:52*	*07/29/11 20:08*	*1*
Nitrobenzene-d5 (Surr)	*56*		*35 - 100*	*07/14/11 10:52*	*07/29/11 20:08*	*1*
Terphenyl-d14 (Surr)	*69*		*30 - 125*	*07/14/11 10:52*	*07/29/11 20:08*	*1*
2,4,6-Tribromophenol (Surr)	*45*		*35 - 125*	*07/14/11 10:52*	*07/29/11 20:08*	*1*
Phenol-d5 (Surr)	*52*		*40 - 100*	*07/14/11 10:52*	*07/29/11 20:08*	*1*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	130	U	330	110	ug/Kg	☼	07/15/11 11:34	07/22/11 18:21	5
Aroclor 1221	130	U	250	82	ug/Kg	☼	07/15/11 11:34	07/22/11 18:21	5
Aroclor 1232	130	U	230	71	ug/Kg	☼	07/15/11 11:34	07/22/11 18:21	5
Aroclor 1242	130	U	200	66	ug/Kg	☼	07/15/11 11:34	07/22/11 18:21	5
Aroclor 1248	130	U	280	87	ug/Kg	☼	07/15/11 11:34	07/22/11 18:21	5
Aroclor 1254	**490**	**D**	280	87	ug/Kg	☼	07/15/11 11:34	07/22/11 18:21	5
Aroclor 1260	130	U	280	87	ug/Kg	☼	07/15/11 11:34	07/22/11 18:21	5

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*40 - 140*	*07/15/11 11:34*	*07/22/11 18:21*	*5*
Tetrachloro-m-xylene	*100*		*40 - 140*	*07/15/11 11:34*	*07/22/11 18:21*	*5*
DCB Decachlorobiphenyl	*135*	*Q*	*60 - 125*	*07/15/11 11:34*	*07/22/11 18:21*	*5*
DCB Decachlorobiphenyl	*156*	*Q*	*60 - 125*	*07/15/11 11:34*	*07/22/11 18:21*	*5*

Client Sample ID: LL2SS-516M-0001-SO

Date Collected: 07/03/11 09:45
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-14

Matrix: Solid
Percent Solids: 98.1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**110**		27	13	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Acenaphthylene	**340**		27	13	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Anthracene	**420**		27	13	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Benzo[a]anthracene	**1500**		27	13	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Benzoic acid	1400	U	2700	1400	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Benzo[b]fluoranthene	**1900**	**M**	27	13	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Benzo[k]fluoranthene	**980**	**M**	27	13	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Benzyl alcohol	110	U	1300	86	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Bis(2-chloroethoxy)methane	110	U	410	90	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Bis(2-chloroethyl)ether	13	U	410	8.1	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
4-Bromophenyl phenyl ether	110	U	200	53	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4

Client Sample ID: LL2SS-516M-0001-SO
Date Collected: 07/03/11 09:45
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-14
Matrix: Solid
Percent Solids: 98.1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	110	U	200	41	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
2,4-Dimethylphenol	330	U	610	81	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Dimethyl phthalate	110	U	200	69	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
4,6-Dinitro-2-methylphenol	330	U J	610	330	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
2,4-Dinitrophenol	330	U J	1300	330	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
2,4-Dinitrotoluene	110	U	810	110	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
2,6-Dinitrotoluene	110	U	810	86	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Fluoranthene	**2900**	**J**	27	13	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Fluorene	**180**		27	13	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Hexachlorobenzene	13	U	27	8.6	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Hexachlorobutadiene	110	U	200	110	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Hexachlorocyclopentadiene	110	U	1300	110	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Hexachloroethane	110	U J	200	37	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
N-Nitrosodiphenylamine	110	U	200	86	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
N-Nitrosodi-n-propylamine	110	U	200	110	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
1,4-Dichlorobenzene	110	U	200	81	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
2-Chloronaphthalene	13	U	200	13	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
2-Chlorophenol	110	U	200	110	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
4-Chlorophenyl phenyl ether	110	U	200	53	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Chrysene	**1400**		27	4.5	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Dibenz(a,h)anthracene	**240**		27	13	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Dibenzofuran	**100**	**J**	200	13	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Benzo[g,h,i]perylene	**870**		27	13	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Benzo[a]pyrene	**1600**	**J**	27	13	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Di-n-butyl phthalate	110	U	200	61	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
1,2-Dichlorobenzene	110	U	200	39	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
1,3-Dichlorobenzene	110	U J	200	45	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
3,3'-Dichlorobenzidine	330	U	410	73	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
2,4-Dichlorophenol	110	U	610	81	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Diethyl phthalate	110	U	200	65	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Indeno[1,2,3-cd]pyrene	**890**		27	13	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Isophorone	**75**	**J**	200	53	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
2-Methylnaphthalene	**45**		27	13	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
2-Methylphenol	330	U	810	330	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Naphthalene	**58**		27	13	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
2-Nitroaniline	110	U	810	37	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
3-Nitroaniline	330	U	810	65	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
4-Nitroaniline	110	U	810	110	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Nitrobenzene	13	U	410	9.0	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
2-Nitrophenol	110	U	200	110	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
4-Nitrophenol	330	U	1300	330	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Pyrene	**2400**	**J**	27	13	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Pentachlorophenol	330	U J	610	330	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Phenanthrene	**1400**		27	13	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
1,2,4-Trichlorobenzene	110	U	200	110	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
2,4,5-Trichlorophenol	110	U	610	100	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
2,4,6-Trichlorophenol	330	U J	610	330	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Phenol	110	U	200	110	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Carbazole	**140**	**J**	200	110	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
4-Chloroaniline	110	U	610	69	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4

Client Sample ID: LL2SS-516M-0001-SO
Date Collected: 07/03/11 09:45
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-14
Matrix: Solid
Percent Solids: 98.1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	330	U	1600	81	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Bis(2-ethylhexyl) phthalate	110	U	200	77	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
Di-n-octyl phthalate	110	U	200	110	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
4-Chloro-3-methylphenol	110	U	610	86	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4
bis (2-Chloroisopropyl) ether	110	U	410	39	ug/Kg	☼	07/14/11 10:52	07/30/11 19:53	4

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*45*		*45 - 105*	*07/14/11 10:52*	*07/30/11 19:53*	*4*
2-Fluorophenol (Surr)	*45*		*35 - 105*	*07/14/11 10:52*	*07/30/11 19:53*	*4*
Nitrobenzene-d5 (Surr)	*36*		*35 - 100*	*07/14/11 10:52*	*07/30/11 19:53*	*4*
Terphenyl-d14 (Surr)	*61*		*30 - 125*	*07/14/11 10:52*	*07/30/11 19:53*	*4*
2,4,6-Tribromophenol (Surr)	*39*		*35 - 125*	*07/14/11 10:52*	*07/30/11 19:53*	*4*
Phenol-d5 (Surr)	*54*		*40 - 100*	*07/14/11 10:52*	*07/30/11 19:53*	*4*

Method: 8081/DOD - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	14	U	41	13	ug/Kg	☼	07/15/11 12:19	08/02/11 21:35	20
4,4'-DDE	**19**	**J D**	35	7.9	ug/Kg	☼	07/15/11 12:19	08/02/11 21:35	20
4,4'-DDT	14	U	41	13	ug/Kg	☼	07/15/11 12:19	08/02/11 21:35	20
Aldrin	27	U	81	24	ug/Kg	☼	07/15/11 12:19	08/02/11 21:35	20
alpha-BHC	27	U J	51	15	ug/Kg	☼	07/15/11 12:19	08/02/11 21:35	20
alpha-Chlordane	27	U J	61	19	ug/Kg	☼	07/15/11 12:19	08/02/11 21:35	20
beta-BHC	27	U J	71	22	ug/Kg	☼	07/15/11 12:19	08/02/11 21:35	20
delta-BHC	27	U	81	24	ug/Kg	☼	07/15/11 12:19	08/02/11 21:35	20
Dieldrin	14	U J	35	9.6	ug/Kg	☼	07/15/11 12:19	08/02/11 21:35	20
Endosulfan I	14	U	35	11	ug/Kg	☼	07/15/11 12:19	08/02/11 21:35	20
Endosulfan II	27	U	51	17	ug/Kg	☼	07/15/11 12:19	08/02/11 21:35	20
Endosulfan sulfate	27	U	61	18	ug/Kg	☼	07/15/11 12:19	08/02/11 21:35	20
Endrin	14	U J	35	10	ug/Kg	☼	07/15/11 12:19	08/02/11 21:35	20
Endrin aldehyde	27	U	61	20	ug/Kg	☼	07/15/11 12:19	08/02/11 21:35	20
Endrin ketone	14	U J	41	13	ug/Kg	☼	07/15/11 12:19	08/02/11 21:35	20
gamma-BHC (Lindane)	27	U J	51	15	ug/Kg	☼	07/15/11 12:19	08/02/11 21:35	20
gamma-Chlordane	**9.9**	**D J**	35	8.6	ug/Kg	☼	07/15/11 12:19	08/02/11 21:35	20
Heptachlor	27	U J	71	22	ug/Kg	☼	07/15/11 12:19	08/02/11 21:35	20
Heptachlor epoxide	27	U J	51	16	ug/Kg	☼	07/15/11 12:19	08/02/11 21:35	20
Methoxychlor	67	U J	100	31	ug/Kg	☼	07/15/11 12:19	08/02/11 21:35	20
Toxaphene	410	U M	1400	390	ug/Kg	☼	07/15/11 12:19	08/02/11 21:35	20

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*769*	*Q*	*55 - 130*	*07/15/11 12:19*	*08/02/11 21:35*	*20*
DCB Decachlorobiphenyl	*194*	*Q*	*55 - 130*	*07/15/11 12:19*	*08/02/11 21:35*	*20*
Tetrachloro-m-xylene	*163*	*Q*	*70 - 125*	*07/15/11 12:19*	*08/02/11 21:35*	*20*
Tetrachloro-m-xylene	*90*		*70 - 125*	*07/15/11 12:19*	*08/02/11 21:35*	*20*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	130	U	330	110	ug/Kg	☼	07/15/11 11:34	07/22/11 18:36	5
Aroclor 1221	130	U	250	81	ug/Kg	☼	07/15/11 11:34	07/22/11 18:36	5
Aroclor 1232	130	U	230	71	ug/Kg	☼	07/15/11 11:34	07/22/11 18:36	5
Aroclor 1242	130	U	200	66	ug/Kg	☼	07/15/11 11:34	07/22/11 18:36	5
Aroclor 1248	130	U	280	87	ug/Kg	☼	07/15/11 11:34	07/22/11 18:36	5

Client Sample ID: LL2SS-516M-0001-SO
Date Collected: 07/03/11 09:45
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-14
Matrix: Solid
Percent Solids: 98.1

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1254	670	D	280	87	ug/Kg	☼	07/15/11 11:34	07/22/11 18:36	5
Aroclor 1260	130	U J	280	87	ug/Kg	☼	07/15/11 11:34	07/22/11 18:36	5

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*40 - 140*	*07/15/11 11:34*	*07/22/11 18:36*	*5*
Tetrachloro-m-xylene	*91*		*40 - 140*	*07/15/11 11:34*	*07/22/11 18:36*	*5*
DCB Decachlorobiphenyl	*200*	*Q*	*60 - 125*	*07/15/11 11:34*	*07/22/11 18:36*	*5*
DCB Decachlorobiphenyl	*152*	*Q*	*60 - 125*	*07/15/11 11:34*	*07/22/11 18:36*	*5*

Method: 8330 (Modified) - Organic Compounds by UV/HPLC

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	0.039 U		0.24	0.020	mg/kg		07/15/11 12:00	07/27/11 17:09	0.98

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.10 U		0.25	0.020	mg/kg		07/15/11 12:00	07/29/11 04:07	1
1,3-Dinitrobenzene	0.10 U		0.25	0.050	mg/kg		07/15/11 12:00	07/29/11 04:07	1
2,4,6-Trinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/15/11 12:00	07/29/11 04:07	1
2,4-Dinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/15/11 12:00	07/29/11 04:07	1
2,6-Dinitrotoluene	0.10 U		0.25	0.030	mg/kg		07/15/11 12:00	07/29/11 04:07	1
2-Amino-4,6-dinitrotoluene	0.10 U		0.25	0.10	mg/kg		07/15/11 12:00	07/29/11 04:07	1
2-Nitrotoluene	0.10 U		0.25	0.080	mg/kg		07/15/11 12:00	07/29/11 04:07	1
3-Nitrotoluene	0.10 U		0.25	0.070	mg/kg		07/15/11 12:00	07/29/11 04:07	1
4-Amino-2,6-dinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/15/11 12:00	07/29/11 04:07	1
4-Nitrotoluene	0.10 U		0.25	0.080	mg/kg		07/15/11 12:00	07/29/11 04:07	1
HMX	0.10 U		0.25	0.030	mg/kg		07/15/11 12:00	07/29/11 04:07	1
Nitrobenzene	0.10 U		0.25	0.050	mg/kg		07/15/11 12:00	07/29/11 04:07	1
Nitroglycerin	0.25 U		0.50	0.13	mg/kg		07/15/11 12:00	07/29/11 04:07	1
PETN	0.25 U		0.50	0.16	mg/kg		07/15/11 12:00	07/29/11 04:07	1
RDX	0.10 U		0.25	0.040	mg/kg		07/15/11 12:00	07/29/11 04:07	1
Tetryl	0.10 U		0.25	0.050	mg/kg		07/15/11 12:00	07/29/11 04:07	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*94*		*78 - 108*	*07/15/11 12:00*	*07/29/11 04:07*	*1*

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8100	J	9.9	2.5	mg/Kg	☼	09/01/11 09:48	09/08/11 10:53	1
Antimony	0.15	J	0.19	0.059	mg/Kg	☼	07/15/11 12:40	08/25/11 22:20	1
Arsenic	10		0.48	0.050	mg/Kg	☼	07/15/11 12:40	08/25/11 22:20	1
Barium	79	J	0.48	0.12	mg/Kg	☼	07/15/11 12:40	08/25/11 22:20	1
Beryllium	0.86	D	0.48	0.017	mg/Kg	☼	07/15/11 12:40	08/29/11 13:49	5
Cadmium	0.27	J D	0.95	0.015	mg/Kg	☼	07/15/11 12:40	08/29/11 13:49	5
Calcium	17000	J	200	40	mg/Kg	☼	09/01/11 09:48	09/08/11 10:53	1
Chromium	27		0.48	0.15	mg/Kg	☼	07/15/11 12:40	08/25/11 22:20	1
Cobalt	8.3	D	0.48	0.021	mg/Kg	☼	07/15/11 12:40	08/29/11 13:49	5
Copper	19		0.38	0.10	mg/Kg	☼	07/15/11 12:40	08/25/11 22:20	1
Iron	20000	J	49	11	mg/Kg	☼	09/01/11 09:48	09/08/11 10:53	1
Lead	35		0.29	0.067	mg/Kg	☼	07/15/11 12:40	08/25/11 22:20	1
Magnesium	4100		99	8.8	mg/Kg	☼	09/01/11 09:48	09/08/11 10:53	1
Manganese	670	D J	2.4	0.76	mg/Kg	☼	07/15/11 12:40	08/29/11 13:49	5

Client Sample ID: LL2SS-516M-0001-SO

Date Collected: 07/03/11 09:45
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-14

Matrix: Solid
Percent Solids: 98.1

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	26		0.48	0.082	mg/Kg	☼	07/15/11 12:40	08/25/11 22:20	1
Potassium	1100		99	3.7	mg/Kg	☼	09/01/11 09:48	09/08/11 10:53	1
Selenium	1.2		0.48	0.020	mg/Kg	☼	07/15/11 12:40	08/25/11 22:20	1
Silver	0.24	U	0.48	0.076	mg/Kg	☼	07/15/11 12:40	08/29/11 13:49	5
Sodium	160		99	14	mg/Kg	☼	09/01/11 09:48	09/08/11 10:53	1
Thallium	0.17	J	0.19	0.054	mg/Kg	☼	07/15/11 12:40	08/25/11 22:20	1
Vanadium	15		0.48	0.041	mg/Kg	☼	07/15/11 12:40	08/25/11 22:20	1
Zinc	88	D J	19	4.8	mg/Kg	☼	07/15/11 12:40	08/29/11 13:49	5

Method: 7471/DOD - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023	J	0.10	0.014	mg/Kg	☼	07/15/11 15:30	07/18/11 17:02	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	0.45	J	0.82	0.28	mg/Kg	☼	07/18/11 14:13	07/20/11 16:20	1

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	0.85	J	5.1	0.79	mg/kg	☼	07/20/11 05:35	07/21/11 12:47	1

Client Sample ID: LL2SS-516V-0001-SO

Date Collected: 07/03/11 09:50
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-15

Matrix: Solid
Percent Solids: 87.6

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	9.2	U	230	19	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
1,1,2,2-Tetrachloroethane	23	U	230	8.2	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
1,1,2-Trichloroethane	23	U	230	11	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
1,1-Dichloroethane	23	U	230	16	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
1,1-Dichloroethene	23	U	230	16	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
1,2-Dichloroethane	23	U	230	9.2	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
1,2-Dichloroethene, Total	7.5	U	460	7.5	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
1,2-Dichloropropane	9.2	U	230	7.5	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
2-Butanone	92	U	920	39	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
2-Hexanone	46	U	920	18	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
4-Methyl-2-pentanone	92	U	920	44	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
Acetone	180	U	920	160	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
Benzene	23	U	230	11	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
Bromoform	23	U	230	17	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
Bromomethane	46	U	230	27	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
Carbon disulfide	23	U	230	11	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
Carbon tetrachloride	9.2	U	230	5.9	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
Chlorobenzene	9.2	U	230	5.9	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
Chloromethane	23	U	230	13	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
cis-1,2-Dichloroethene	9.2	U	230	6.3	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
cis-1,3-Dichloropropene	9.2	U J	230	7.2	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
Dibromochloromethane	23	U	230	11	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
Bromodichloromethane	23	U J	230	9.1	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
Ethylbenzene	9.2	U	230	4.9	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
Methylene Chloride	200	J	230	71	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1

Client Sample ID: LL2SS-516V-0001-SO

Date Collected: 07/03/11 09:50
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-15

Matrix: Solid
Percent Solids: 87.6

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	9.2	U J	230	5.1	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
Tetrachloroethene	23	U	230	11	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
Toluene	23	U	230	16	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
trans-1,2-Dichloroethene	23	U	230	8.4	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
trans-1,3-Dichloropropene	23	U J	230	18	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
Trichloroethene	23	U	230	8.9	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
Vinyl chloride	23	U J	230	16	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
Xylenes (total)	27	U	460	7.4	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
Chloroform	23	U	230	8.1	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
Bromochloromethane	23	U	230	12	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
1,2-Dibromoethane	23	U	230	9.2	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1
Chloroethane	92	U	230	56	ug/Kg	☼	07/12/11 15:40	07/12/11 22:20	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*77*	*Q*	*85 - 115*	*07/12/11 15:40*	*07/12/11 22:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*61 - 130*	*07/12/11 15:40*	*07/12/11 22:20*	*1*
4-Bromofluorobenzene (Surr)	*76*	*Q*	*85 - 120*	*07/12/11 15:40*	*07/12/11 22:20*	*1*
Dibromofluoromethane (Surr)	*71*		*59 - 138*	*07/12/11 15:40*	*07/12/11 22:20*	*1*

Client Sample ID: LL2SS-517M-0001-SO

Date Collected: 07/03/11 09:45
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-18

Matrix: Solid
Percent Solids: 98.0

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**150**		27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Acenaphthylene	**320**		27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Anthracene	**570**		27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Benzo[a]anthracene	**1600**		27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Benzoic acid	1400	U	2700	1400	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Benzo[b]fluoranthene	**2000**	**M**	27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Benzo[k]fluoranthene	**950**	**M**	27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Benzyl alcohol	110	U	1300	86	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Bis(2-chloroethoxy)methane	110	U	410	90	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Bis(2-chloroethyl)ether	13	U	410	8.2	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
4-Bromophenyl phenyl ether	110	U	200	53	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Butyl benzyl phthalate	110	U	200	41	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
2,4-Dimethylphenol	330	U	610	82	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Dimethyl phthalate	110	U	200	69	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
4,6-Dinitro-2-methylphenol	330	U	610	330	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
2,4-Dinitrophenol	330	U	1300	330	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
2,4-Dinitrotoluene	110	U	820	110	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
2,6-Dinitrotoluene	110	U	820	86	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Fluoranthene	**3600**		27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Fluorene	**300**		27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Hexachlorobenzene	13	U	27	8.6	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Hexachlorobutadiene	110	U Q	200	110	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Hexachlorocyclopentadiene	110	U	1300	110	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Hexachloroethane	110	U	200	37	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
N-Nitrosodiphenylamine	110	U	200	86	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4

Client Sample ID: LL2SS-517M-0001-SO
Date Collected: 07/03/11 09:45
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-18
Matrix: Solid
Percent Solids: 98.0

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	110	U	200	110	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
1,4-Dichlorobenzene	110	U	200	82	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
2-Chloronaphthalene	13	U	200	13	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
2-Chlorophenol	110	U	200	110	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
4-Chlorophenyl phenyl ether	110	U	200	53	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Chrysene	**1500**		27	4.5	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Dibenz(a,h)anthracene	**210**		27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Dibenzofuran	**160**	**J**	200	13	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Benzo[g,h,i]perylene	**1000**		27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Benzo[a]pyrene	**1700**		27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Di-n-butyl phthalate	110	U	200	61	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
1,2-Dichlorobenzene	110	U Q	200	40	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
1,3-Dichlorobenzene	110	U Q	200	45	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
3,3'-Dichlorobenzidine	330	U	410	73	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
2,4-Dichlorophenol	110	U	610	82	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Diethyl phthalate	110	U	200	65	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Indeno[1,2,3-cd]pyrene	**1000**		27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Isophorone	**53**	**J**	200	53	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
2-Methylnaphthalene	**74**		27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
2-Methylphenol	330	U	820	330	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Naphthalene	**78**		27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
2-Nitroaniline	110	U	820	37	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
3-Nitroaniline	330	U	820	65	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
4-Nitroaniline	110	U	820	110	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Nitrobenzene	13	U	410	9.0	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
2-Nitrophenol	110	U	200	110	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
4-Nitrophenol	330	U	1300	330	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Pyrene	**2700**		27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Pentachlorophenol	330	U	610	330	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Phenanthrene	**2100**		27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
1,2,4-Trichlorobenzene	110	U Q	200	110	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
2,4,5-Trichlorophenol	110	U Q	610	100	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
2,4,6-Trichlorophenol	330	U Q	610	330	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Phenol	110	U	200	110	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Carbazole	**170**	**J**	200	110	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
4-Chloroaniline	110	U	610	69	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
3 & 4 Methylphenol	330	U	1600	82	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Bis(2-ethylhexyl) phthalate	**380**		200	78	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
Di-n-octyl phthalate	110	U	200	110	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
4-Chloro-3-methylphenol	110	U	610	86	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4
bis (2-Chloroisopropyl) ether	110	U	410	39	ug/Kg	☼	07/13/11 11:10	08/01/11 18:34	4

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*48*		*45 - 105*	*07/13/11 11:10*	*08/01/11 18:34*	*4*
2-Fluorophenol (Surr)	*58*		*35 - 105*	*07/13/11 11:10*	*08/01/11 18:34*	*4*
Nitrobenzene-d5 (Surr)	*46*		*35 - 100*	*07/13/11 11:10*	*08/01/11 18:34*	*4*
Terphenyl-d14 (Surr)	*63*		*30 - 125*	*07/13/11 11:10*	*08/01/11 18:34*	*4*
2,4,6-Tribromophenol (Surr)	*46*		*35 - 125*	*07/13/11 11:10*	*08/01/11 18:34*	*4*
Phenol-d5 (Surr)	*61*		*40 - 100*	*07/13/11 11:10*	*08/01/11 18:34*	*4*

Client Sample ID: LL2SS-517M-0001-SO
Date Collected: 07/03/11 09:45
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-18
Matrix: Solid
Percent Solids: 98.0

Method: 8081/DOD - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	34	U	100	32	ug/Kg	☼	07/13/11 12:29	07/31/11 00:43	50
4,4'-DDE	34	U	87	20	ug/Kg	☼	07/13/11 12:29	07/31/11 00:43	50
4,4'-DDT	34	U	100	32	ug/Kg	☼	07/13/11 12:29	07/31/11 00:43	50
Aldrin	68	U	200	61	ug/Kg	☼	07/13/11 12:29	07/31/11 00:43	50
alpha-BHC	68	U Q	130	37	ug/Kg	☼	07/13/11 12:29	07/31/11 00:43	50
alpha-Chlordane	68	U	150	48	ug/Kg	☼	07/13/11 12:29	07/31/11 00:43	50
beta-BHC	68	U Q	180	56	ug/Kg	☼	07/13/11 12:29	07/31/11 00:43	50
delta-BHC	68	U	200	61	ug/Kg	☼	07/13/11 12:29	07/31/11 00:43	50
Dieldrin	34	U	87	24	ug/Kg	☼	07/13/11 12:29	07/31/11 00:43	50
Endosulfan I	34	U	87	27	ug/Kg	☼	07/13/11 12:29	07/31/11 00:43	50
Endosulfan II	68	U	130	42	ug/Kg	☼	07/13/11 12:29	07/31/11 00:43	50
Endosulfan sulfate	68	U	150	44	ug/Kg	☼	07/13/11 12:29	07/31/11 00:43	50
Endrin	34	U	87	26	ug/Kg	☼	07/13/11 12:29	07/31/11 00:43	50
Endrin aldehyde	68	U	150	51	ug/Kg	☼	07/13/11 12:29	07/31/11 00:43	50
Endrin ketone	34	U	100	32	ug/Kg	☼	07/13/11 12:29	07/31/11 00:43	50
gamma-BHC (Lindane)	68	U Q	130	38	ug/Kg	☼	07/13/11 12:29	07/31/11 00:43	50
gamma-Chlordane	34	U Q	87	21	ug/Kg	☼	07/13/11 12:29	07/31/11 00:43	50
Heptachlor	68	U	180	56	ug/Kg	☼	07/13/11 12:29	07/31/11 00:43	50
Heptachlor epoxide	68	U	130	41	ug/Kg	☼	07/13/11 12:29	07/31/11 00:43	50
Methoxychlor	170	U M	260	77	ug/Kg	☼	07/13/11 12:29	07/31/11 00:43	50
Toxaphene	1000	U M	3400	970	ug/Kg	☼	07/13/11 12:29	07/31/11 00:43	50

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*Q*	*55 - 130*	*07/13/11 12:29*	*07/31/11 00:43*	*50*
DCB Decachlorobiphenyl	*0*	*Q*	*55 - 130*	*07/13/11 12:29*	*07/31/11 00:43*	*50*
Tetrachloro-m-xylene	*2725*	*Q*	*70 - 125*	*07/13/11 12:29*	*07/31/11 00:43*	*50*
Tetrachloro-m-xylene	*99*		*70 - 125*	*07/13/11 12:29*	*07/31/11 00:43*	*50*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	66	21	ug/Kg	☼	07/13/11 13:31	07/20/11 20:59	1
Aroclor 1221	25	U	51	16	ug/Kg	☼	07/13/11 13:31	07/20/11 20:59	1
Aroclor 1232	25	U	46	14	ug/Kg	☼	07/13/11 13:31	07/20/11 20:59	1
Aroclor 1242	25	U	41	13	ug/Kg	☼	07/13/11 13:31	07/20/11 20:59	1
Aroclor 1248	25	U	56	17	ug/Kg	☼	07/13/11 13:31	07/20/11 20:59	1
Aroclor 1254	**250**		56	17	ug/Kg	☼	07/13/11 13:31	07/20/11 20:59	1
Aroclor 1260	25	U	56	17	ug/Kg	☼	07/13/11 13:31	07/20/11 20:59	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*42*		*40 - 140*	*07/13/11 13:31*	*07/20/11 20:59*	*1*
Tetrachloro-m-xylene	*42*		*40 - 140*	*07/13/11 13:31*	*07/20/11 20:59*	*1*
DCB Decachlorobiphenyl	*106*		*60 - 125*	*07/13/11 13:31*	*07/20/11 20:59*	*1*
DCB Decachlorobiphenyl	*129*	*Q*	*60 - 125*	*07/13/11 13:31*	*07/20/11 20:59*	*1*

Method: 8330 (Modified) - Organic Compounds by UV/HPLC

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	0.040 U		0.25	0.020	mg/kg		07/15/11 12:00	07/27/11 17:52	1

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.10 U		0.25	0.020	mg/kg		07/15/11 12:00	07/29/11 06:07	1

Client Sample ID: LL2SS-517M-0001-SO
Date Collected: 07/03/11 09:45
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-18
Matrix: Solid

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A) (Continued)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dinitrobenzene	0.10 U		0.25	0.050	mg/kg		07/15/11 12:00	07/29/11 06:07	1
2,4,6-Trinitrotoluene	**0.048**	**J PG**	0.25	0.020	mg/kg		07/15/11 12:00	07/29/11 06:07	1
2,4-Dinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/15/11 12:00	07/29/11 06:07	1
2,6-Dinitrotoluene	0.10 U		0.25	0.030	mg/kg		07/15/11 12:00	07/29/11 06:07	1
2-Amino-4,6-dinitrotoluene	0.10 U		0.25	0.10	mg/kg		07/15/11 12:00	07/29/11 06:07	1
2-Nitrotoluene	0.10 U		0.25	0.080	mg/kg		07/15/11 12:00	07/29/11 06:07	1
3-Nitrotoluene	0.10 U		0.25	0.070	mg/kg		07/15/11 12:00	07/29/11 06:07	1
4-Amino-2,6-dinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/15/11 12:00	07/29/11 06:07	1
4-Nitrotoluene	0.10 U		0.25	0.080	mg/kg		07/15/11 12:00	07/29/11 06:07	1
HMX	0.10 U		0.25	0.030	mg/kg		07/15/11 12:00	07/29/11 06:07	1
Nitrobenzene	0.10 U		0.25	0.050	mg/kg		07/15/11 12:00	07/29/11 06:07	1
Nitroglycerin	0.25 U		0.50	0.13	mg/kg		07/15/11 12:00	07/29/11 06:07	1
PETN	0.25 U		0.50	0.16	mg/kg		07/15/11 12:00	07/29/11 06:07	1
RDX	0.10 U		0.25	0.040	mg/kg		07/15/11 12:00	07/29/11 06:07	1
Tetryl	0.10 U		0.25	0.050	mg/kg		07/15/11 12:00	07/29/11 06:07	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*92*		*78 - 108*	*07/15/11 12:00*	*07/29/11 06:07*	*1*

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**	**D**	93	23	mg/Kg	☼	07/15/11 12:40	08/29/11 14:46	10
Antimony	**0.14**	**J**	0.19	0.058	mg/Kg	☼	07/15/11 12:40	08/25/11 23:19	1
Arsenic	**9.2**		0.46	0.048	mg/Kg	☼	07/15/11 12:40	08/25/11 23:19	1
Barium	**88**		0.46	0.12	mg/Kg	☼	07/15/11 12:40	08/25/11 23:19	1
Beryllium	**1.0**	**D**	0.93	0.032	mg/Kg	☼	07/15/11 12:40	08/29/11 14:46	10
Cadmium	**0.17**	**J D**	1.9	0.029	mg/Kg	☼	07/15/11 12:40	08/29/11 14:46	10
Calcium	**23000**	**D**	1900	370	mg/Kg	☼	07/15/11 12:40	08/29/11 14:46	10
Chromium	**32**		0.46	0.15	mg/Kg	☼	07/15/11 12:40	08/25/11 23:19	1
Cobalt	**9.2**	**D**	0.93	0.042	mg/Kg	☼	07/15/11 12:40	08/29/11 14:46	10
Copper	**18**		0.37	0.10	mg/Kg	☼	07/15/11 12:40	08/25/11 23:19	1
Iron	**20000**		46	10	mg/Kg	☼	07/15/11 12:40	08/25/11 23:19	1
Lead	**33**		0.28	0.065	mg/Kg	☼	07/15/11 12:40	08/25/11 23:19	1
Magnesium	**4500**		93	8.3	mg/Kg	☼	07/15/11 12:40	08/25/11 23:19	1
Manganese	**870**	**D**	4.6	1.5	mg/Kg	☼	07/15/11 12:40	08/29/11 14:46	10
Nickel	**29**		0.46	0.080	mg/Kg	☼	07/15/11 12:40	08/25/11 23:19	1
Potassium	**1200**		93	3.5	mg/Kg	☼	07/15/11 12:40	08/25/11 23:19	1
Selenium	**1.1**		0.46	0.019	mg/Kg	☼	07/15/11 12:40	08/25/11 23:19	1
Silver	0.46	U	0.93	0.15	mg/Kg	☼	07/15/11 12:40	08/29/11 14:46	10
Sodium	**170**		93	13	mg/Kg	☼	07/15/11 12:40	08/25/11 23:19	1
Thallium	**0.15**	**J**	0.19	0.052	mg/Kg	☼	07/15/11 12:40	08/25/11 23:19	1
Vanadium	**14**		0.46	0.040	mg/Kg	☼	07/15/11 12:40	08/25/11 23:19	1
Zinc	**62**	**D**	37	9.3	mg/Kg	☼	07/15/11 12:40	08/29/11 14:46	10

Method: 7471/DOD - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**	**J**	0.10	0.014	mg/Kg	☼	07/15/11 15:30	07/18/11 17:12	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	0.82	U	0.82	0.28	mg/Kg	☼	07/18/11 14:13	07/20/11 16:21	1

Client Sample ID: LL2SS-517M-0001-SO

Lab Sample ID: 240-1728-18

Date Collected: 07/03/11 09:45

Matrix: Solid

Date Received: 07/06/11 13:15

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	**0.94**	**J**	5.1	0.80	mg/kg	☼	07/20/11 05:35	07/21/11 12:59	1

Client Sample ID: LL2SS-517V-0001-SO

Lab Sample ID: 240-1728-19

Date Collected: 07/03/11 09:50

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 88.7

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	8.3	U	210	18	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
1,1,2,2-Tetrachloroethane	21	U	210	7.4	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
1,1,2-Trichloroethane	21	U	210	10	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
1,1-Dichloroethane	21	U	210	14	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
1,1-Dichloroethene	21	U	210	15	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
1,2-Dichloroethane	21	U	210	8.3	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
1,2-Dichloroethene, Total	6.8	U	420	6.8	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
1,2-Dichloropropane	8.3	U	210	6.8	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
2-Butanone	83	U	830	36	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
2-Hexanone	42	U	830	17	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
4-Methyl-2-pentanone	83	U	830	40	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
Acetone	170	U	830	140	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
Benzene	21	U	210	10	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
Bromoform	21	U	210	16	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
Bromomethane	42	U	210	24	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
Carbon disulfide	21	U	210	10	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
Carbon tetrachloride	8.3	U	210	5.3	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
Chlorobenzene	8.3	U	210	5.3	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
Chloromethane	21	U	210	12	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
cis-1,2-Dichloroethene	8.3	U	210	5.8	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
cis-1,3-Dichloropropene	8.3	U	210	6.6	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
Dibromochloromethane	21	U	210	10	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
Bromodichloromethane	21	U	210	8.3	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
Ethylbenzene	8.3	U	210	4.5	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
Methylene Chloride	**130**	**J**	210	64	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
Styrene	8.3	U	210	4.7	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
Tetrachloroethene	21	U	210	10	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
Toluene	21	U	210	14	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
trans-1,2-Dichloroethene	21	U	210	7.7	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
trans-1,3-Dichloropropene	21	U	210	17	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
Trichloroethene	21	U	210	8.1	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
Vinyl chloride	21	U	210	15	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
Xylenes (total)	25	U	420	6.8	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
Chloroform	21	U	210	7.3	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
Bromochloromethane	21	U	210	11	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
1,2-Dibromoethane	21	U	210	8.3	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1
Chloroethane	83	U	210	51	ug/Kg	☼	07/12/11 15:40	07/12/11 23:02	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*78*	*Q*	*85 - 115*	*07/12/11 15:40*	*07/12/11 23:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*61 - 130*	*07/12/11 15:40*	*07/12/11 23:02*	*1*
4-Bromofluorobenzene (Surr)	*78*	*Q*	*85 - 120*	*07/12/11 15:40*	*07/12/11 23:02*	*1*
Dibromofluoromethane (Surr)	*72*		*59 - 138*	*07/12/11 15:40*	*07/12/11 23:02*	*1*

Client Sample ID: L12SS-300M-0001-SO
Date Collected: 07/03/11 11:15
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-20
Matrix: Solid
Percent Solids: 97.6

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**570**	**D**	85	42	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Acenaphthylene	**280**	**D**	85	42	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Anthracene	**2300**	**D**	85	42	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Benzo[a]anthracene	**5000**	**D**	85	42	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Benzoic acid	4300	U	8400	4300	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Benzo[b]fluoranthene	**5200**	**D M**	85	42	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Benzo[k]fluoranthene	**3600**	**D M**	85	42	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Benzyl alcohol	350	U	4200	270	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Bis(2-chloroethoxy)methane	350	U	1300	280	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Bis(2-chloroethyl)ether	42	U	1300	26	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
4-Bromophenyl phenyl ether	350	U	640	170	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Butyl benzyl phthalate	350	U	640	130	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
2,4-Dimethylphenol	1000	U	1900	260	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Dimethyl phthalate	350	U	640	220	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
4,6-Dinitro-2-methylphenol	1000	U	1900	1000	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
2,4-Dinitrophenol	1000	U	4200	1000	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
2,4-Dinitrotoluene	350	U	2600	350	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
2,6-Dinitrotoluene	350	U	2600	270	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Fluoranthene	**11000**	**D**	85	42	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Fluorene	**740**	**D**	85	42	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Hexachlorobenzene	42	U	85	27	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Hexachlorobutadiene	350	U Q	640	350	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Hexachlorocyclopentadiene	350	U	4200	350	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Hexachloroethane	350	U	640	120	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
N-Nitrosodiphenylamine	350	U	640	270	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
N-Nitrosodi-n-propylamine	350	U	640	350	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
1,4-Dichlorobenzene	350	U	640	260	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
2-Chloronaphthalene	42	U	640	42	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
2-Chlorophenol	350	U	640	350	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
4-Chlorophenyl phenyl ether	350	U	640	170	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Chrysene	**5400**	**D**	85	14	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Dibenz(a,h)anthracene	**750**	**D**	85	42	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Dibenzofuran	**450**	**J D**	640	42	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Benzo[g,h,i]perylene	**2600**	**D**	85	42	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Benzo[a]pyrene	**4500**	**D**	85	42	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Di-n-butyl phthalate	350	U	640	190	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
1,2-Dichlorobenzene	350	U Q	640	120	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
1,3-Dichlorobenzene	350	U Q	640	140	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
3,3'-Dichlorobenzidine	1000	U	1300	230	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
2,4-Dichlorophenol	350	U	1900	260	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Diethyl phthalate	350	U	640	200	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Indeno[1,2,3-cd]pyrene	**2600**	**D**	85	42	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Isophorone	350	U	640	170	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
2-Methylnaphthalene	**530**	**D**	85	42	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
2-Methylphenol	1000	U	2600	1000	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Naphthalene	**440**	**D**	85	42	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
2-Nitroaniline	350	U	2600	120	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
3-Nitroaniline	1000	U	2600	200	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
4-Nitroaniline	350	U	2600	330	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Nitrobenzene	42	U	1300	28	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5

Client Sample ID: L12SS-300M-0001-SO
Date Collected: 07/03/11 11:15
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-20
Matrix: Solid
Percent Solids: 97.6

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	350	U	640	350	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
4-Nitrophenol	1000	U	4200	1000	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Pyrene	**9000**	**D**	85	42	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Pentachlorophenol	1000	U	1900	1000	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Phenanthrene	**6400**	**D**	85	42	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
1,2,4-Trichlorobenzene	350	U Q	640	350	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
2,4,5-Trichlorophenol	350	U Q	1900	320	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
2,4,6-Trichlorophenol	1000	U Q	1900	1000	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Phenol	350	U	640	350	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Carbazole	**680**	**D**	640	350	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
4-Chloroaniline	350	U	1900	220	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
3 & 4 Methylphenol	1000	U	5100	260	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Bis(2-ethylhexyl) phthalate	350	U	640	240	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
Di-n-octyl phthalate	350	U	640	350	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
4-Chloro-3-methylphenol	350	U	1900	270	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5
bis (2-Chloroisopropyl) ether	350	U	1300	120	ug/Kg	☼	07/13/11 11:10	08/01/11 17:56	12.5

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*	*M*	*45 - 105*	*07/13/11 11:10*	*08/01/11 17:56*	*12.5*
2-Fluorophenol (Surr)	*66*	*M*	*35 - 105*	*07/13/11 11:10*	*08/01/11 17:56*	*12.5*
Nitrobenzene-d5 (Surr)	*53*		*35 - 100*	*07/13/11 11:10*	*08/01/11 17:56*	*12.5*
Terphenyl-d14 (Surr)	*74*		*30 - 125*	*07/13/11 11:10*	*08/01/11 17:56*	*12.5*
2,4,6-Tribromophenol (Surr)	*58*		*35 - 125*	*07/13/11 11:10*	*08/01/11 17:56*	*12.5*
Phenol-d5 (Surr)	*67*		*40 - 100*	*07/13/11 11:10*	*08/01/11 17:56*	*12.5*

Method: 8081/DOD - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	34	U M	100	32	ug/Kg	☼	07/13/11 12:29	07/31/11 01:13	50
4,4'-DDE	34	U M	87	20	ug/Kg	☼	07/13/11 12:29	07/31/11 01:13	50
4,4'-DDT	34	U	100	32	ug/Kg	☼	07/13/11 12:29	07/31/11 01:13	50
Aldrin	68	U	210	62	ug/Kg	☼	07/13/11 12:29	07/31/11 01:13	50
alpha-BHC	68	U Q	130	37	ug/Kg	☼	07/13/11 12:29	07/31/11 01:13	50
alpha-Chlordane	68	U	150	48	ug/Kg	☼	07/13/11 12:29	07/31/11 01:13	50
beta-BHC	68	U Q	180	56	ug/Kg	☼	07/13/11 12:29	07/31/11 01:13	50
delta-BHC	68	U	210	62	ug/Kg	☼	07/13/11 12:29	07/31/11 01:13	50
Dieldrin	34	U	87	24	ug/Kg	☼	07/13/11 12:29	07/31/11 01:13	50
Endosulfan I	34	U	87	27	ug/Kg	☼	07/13/11 12:29	07/31/11 01:13	50
Endosulfan II	68	U	130	42	ug/Kg	☼	07/13/11 12:29	07/31/11 01:13	50
Endosulfan sulfate	68	U	150	45	ug/Kg	☼	07/13/11 12:29	07/31/11 01:13	50
Endrin	34	U	87	26	ug/Kg	☼	07/13/11 12:29	07/31/11 01:13	50
Endrin aldehyde	68	U	150	51	ug/Kg	☼	07/13/11 12:29	07/31/11 01:13	50
Endrin ketone	**80**	**J D**	100	32	ug/Kg	☼	07/13/11 12:29	07/31/11 01:13	50
gamma-BHC (Lindane)	68	U Q	130	38	ug/Kg	☼	07/13/11 12:29	07/31/11 01:13	50
gamma-Chlordane	34	U Q	87	22	ug/Kg	☼	07/13/11 12:29	07/31/11 01:13	50
Heptachlor	68	U	180	56	ug/Kg	☼	07/13/11 12:29	07/31/11 01:13	50
Heptachlor epoxide	68	U	130	41	ug/Kg	☼	07/13/11 12:29	07/31/11 01:13	50
Methoxychlor	170	U	260	77	ug/Kg	☼	07/13/11 12:29	07/31/11 01:13	50
Toxaphene	1000	U M	3400	970	ug/Kg	☼	07/13/11 12:29	07/31/11 01:13	50

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*Q*	*55 - 130*	*07/13/11 12:29*	*07/31/11 01:13*	*50*

Client Sample ID: L12SS-300M-0001-SO
Date Collected: 07/03/11 11:15
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-20
Matrix: Solid
Percent Solids: 97.6

Method: 8081/DOD - Organochlorine Pesticides (GC) (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	Q	55 - 130	07/13/11 12:29	07/31/11 01:13	50
Tetrachloro-m-xylene	2270	Q	70 - 125	07/13/11 12:29	07/31/11 01:13	50
Tetrachloro-m-xylene	122		70 - 125	07/13/11 12:29	07/31/11 01:13	50

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	130	U	330	110	ug/Kg	☼	07/13/11 13:31	07/20/11 21:14	5
Aroclor 1221	130	U	260	82	ug/Kg	☼	07/13/11 13:31	07/20/11 21:14	5
Aroclor 1232	130	U	230	72	ug/Kg	☼	07/13/11 13:31	07/20/11 21:14	5
Aroclor 1242	130	U	210	67	ug/Kg	☼	07/13/11 13:31	07/20/11 21:14	5
Aroclor 1248	130	U	280	87	ug/Kg	☼	07/13/11 13:31	07/20/11 21:14	5
Aroclor 1254	130	U	280	87	ug/Kg	☼	07/13/11 13:31	07/20/11 21:14	5
Aroclor 1260	**770**	**D**	280	87	ug/Kg	☼	07/13/11 13:31	07/20/11 21:14	5

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	123		40 - 140	07/13/11 13:31	07/20/11 21:14	5
Tetrachloro-m-xylene	90		40 - 140	07/13/11 13:31	07/20/11 21:14	5
DCB Decachlorobiphenyl	327	Q	60 - 125	07/13/11 13:31	07/20/11 21:14	5
DCB Decachlorobiphenyl	307	Q	60 - 125	07/13/11 13:31	07/20/11 21:14	5

Method: 8330 (Modified) - Organic Compounds by UV/HPLC

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	0.040 U		0.25	0.020	mg/kg		07/15/11 12:00	07/27/11 18:21	1

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.097 U		0.24	0.019	mg/kg		07/15/11 12:00	07/29/11 06:47	0.97
1,3-Dinitrobenzene	0.097 U		0.24	0.048	mg/kg		07/15/11 12:00	07/29/11 06:47	0.97
2,4,6-Trinitrotoluene	0.097 U		0.24	0.019	mg/kg		07/15/11 12:00	07/29/11 06:47	0.97
2,4-Dinitrotoluene	0.097 U		0.24	0.019	mg/kg		07/15/11 12:00	07/29/11 06:47	0.97
2,6-Dinitrotoluene	0.097 U		0.24	0.029	mg/kg		07/15/11 12:00	07/29/11 06:47	0.97
2-Amino-4,6-dinitrotoluene	0.097 U		0.24	0.097	mg/kg		07/15/11 12:00	07/29/11 06:47	0.97
2-Nitrotoluene	0.097 U		0.24	0.078	mg/kg		07/15/11 12:00	07/29/11 06:47	0.97
3-Nitrotoluene	0.097 U		0.24	0.068	mg/kg		07/15/11 12:00	07/29/11 06:47	0.97
4-Amino-2,6-dinitrotoluene	0.097 U		0.24	0.019	mg/kg		07/15/11 12:00	07/29/11 06:47	0.97
4-Nitrotoluene	0.097 U		0.24	0.078	mg/kg		07/15/11 12:00	07/29/11 06:47	0.97
HMX	0.097 U		0.24	0.029	mg/kg		07/15/11 12:00	07/29/11 06:47	0.97
Nitrobenzene	0.097 U		0.24	0.048	mg/kg		07/15/11 12:00	07/29/11 06:47	0.97
Nitroglycerin	0.24 U		0.48	0.13	mg/kg		07/15/11 12:00	07/29/11 06:47	0.97
PETN	0.24 U		0.48	0.16	mg/kg		07/15/11 12:00	07/29/11 06:47	0.97
RDX	0.097 U		0.24	0.039	mg/kg		07/15/11 12:00	07/29/11 06:47	0.97
Tetryl	**0.17**	**J PG**	0.24	0.048	mg/kg		07/15/11 12:00	07/29/11 06:47	0.97

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
3,4-Dinitrotoluene	91		78 - 108	07/15/11 12:00	07/29/11 06:47	0.97

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**20000**	**D**	99	25	mg/Kg	☼	07/15/11 12:40	08/29/11 15:05	10
Antimony	**0.96**		0.20	0.061	mg/Kg	☼	07/15/11 12:40	08/25/11 23:33	1
Arsenic	**16**		0.49	0.051	mg/Kg	☼	07/15/11 12:40	08/25/11 23:33	1

Client Sample ID: L12SS-300M-0001-SO

Date Collected: 07/03/11 11:15
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-20

Matrix: Solid
Percent Solids: 97.6

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	79		0.49	0.13	mg/Kg	☼	07/15/11 12:40	08/25/11 23:33	1
Beryllium	0.86	J D	0.99	0.034	mg/Kg	☼	07/15/11 12:40	08/29/11 15:05	10
Cadmium	1.0	J D	2.0	0.031	mg/Kg	☼	07/15/11 12:40	08/29/11 15:05	10
Calcium	17000	D	2000	390	mg/Kg	☼	07/15/11 12:40	08/29/11 15:05	10
Chromium	57		0.49	0.16	mg/Kg	☼	07/15/11 12:40	08/25/11 23:33	1
Cobalt	7.4	D	0.99	0.044	mg/Kg	☼	07/15/11 12:40	08/29/11 15:05	10
Copper	440		0.39	0.11	mg/Kg	☼	07/15/11 12:40	08/25/11 23:33	1
Iron	25000		49	11	mg/Kg	☼	07/15/11 12:40	08/25/11 23:33	1
Lead	67		0.30	0.069	mg/Kg	☼	07/15/11 12:40	08/25/11 23:33	1
Magnesium	4200		99	8.8	mg/Kg	☼	07/15/11 12:40	08/25/11 23:33	1
Manganese	1200	D	4.9	1.6	mg/Kg	☼	07/15/11 12:40	08/29/11 15:05	10
Nickel	51		0.49	0.085	mg/Kg	☼	07/15/11 12:40	08/25/11 23:33	1
Potassium	980		99	3.7	mg/Kg	☼	07/15/11 12:40	08/25/11 23:33	1
Selenium	1.4		0.49	0.020	mg/Kg	☼	07/15/11 12:40	08/25/11 23:33	1
Silver	0.26	J D	0.99	0.16	mg/Kg	☼	07/15/11 12:40	08/29/11 15:05	10
Sodium	110		99	14	mg/Kg	☼	07/15/11 12:40	08/25/11 23:33	1
Thallium	0.099	J	0.20	0.055	mg/Kg	☼	07/15/11 12:40	08/25/11 23:33	1
Vanadium	19		0.49	0.043	mg/Kg	☼	07/15/11 12:40	08/25/11 23:33	1
Zinc	280	D	39	9.9	mg/Kg	☼	07/15/11 12:40	08/29/11 15:05	10

Method: 7471/DOD - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.088		0.076	0.011	mg/Kg	☼	07/15/11 15:30	07/18/11 17:19	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	0.82	U	0.82	0.28	mg/Kg	☼	07/18/11 14:13	07/20/11 16:28	1

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	2.1	J	5.1	0.80	mg/kg	☼	07/20/11 05:35	07/21/11 13:01	1

Client Sample ID: L12SS-300V-0001-SO

Date Collected: 07/03/11 11:20
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-21

Matrix: Solid
Percent Solids: 91.1

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	9.1	U	230	19	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
1,1,2,2-Tetrachloroethane	23	U	230	8.1	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
1,1,2-Trichloroethane	23	U	230	11	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
1,1-Dichloroethane	23	U	230	15	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
1,1-Dichloroethene	23	U	230	16	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
1,2-Dichloroethane	23	U	230	9.1	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
1,2-Dichloroethene, Total	7.5	U	460	7.5	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
1,2-Dichloropropane	9.1	U	230	7.5	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
2-Butanone	91	U	910	39	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
2-Hexanone	46	U	910	18	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
4-Methyl-2-pentanone	91	U	910	44	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
Acetone	180	U	910	150	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
Benzene	23	U	230	11	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
Bromoform	23	U	230	17	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1

Client Sample ID: L12SS-300V-0001-SO

Date Collected: 07/03/11 11:20
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-21

Matrix: Solid
Percent Solids: 91.1

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	46	U	230	26	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
Carbon disulfide	**41**	**J**	230	11	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
Carbon tetrachloride	9.1	U	230	5.8	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
Chlorobenzene	9.1	U	230	5.8	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
Chloromethane	23	U	230	13	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
cis-1,2-Dichloroethene	9.1	U	230	6.3	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
cis-1,3-Dichloropropene	9.1	U	230	7.2	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
Dibromochloromethane	23	U	230	11	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
Bromodichloromethane	23	U	230	9.0	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
Ethylbenzene	9.1	U	230	4.9	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
Methylene Chloride	91	U	230	70	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
Styrene	9.1	U	230	5.1	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
Tetrachloroethene	23	U	230	11	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
Toluene	**16**	**J**	230	15	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
trans-1,2-Dichloroethene	23	U	230	8.4	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
trans-1,3-Dichloropropene	23	U	230	18	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
Trichloroethene	23	U	230	8.8	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
Vinyl chloride	23	U	230	16	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
Xylenes (total)	**24**	**J**	460	7.4	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
Chloroform	23	U	230	8.0	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
Bromochloromethane	23	U	230	12	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
1,2-Dibromoethane	23	U	230	9.1	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1
Chloroethane	91	U	230	56	ug/Kg	☼	07/12/11 15:40	07/13/11 13:12	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*83*	*Q*	*85 - 115*	*07/12/11 15:40*	*07/13/11 13:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*61 - 130*	*07/12/11 15:40*	*07/13/11 13:12*	*1*
4-Bromofluorobenzene (Surr)	*80*	*Q*	*85 - 120*	*07/12/11 15:40*	*07/13/11 13:12*	*1*
Dibromofluoromethane (Surr)	*75*		*59 - 138*	*07/12/11 15:40*	*07/13/11 13:12*	*1*

Client Sample ID: L12SS-301M-0001-SO

Date Collected: 07/03/11 11:15
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-22

Matrix: Solid
Percent Solids: 97.5

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**750**	**D**	140	68	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Acenaphthylene	**600**	**D**	140	68	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Anthracene	**3700**	**D**	140	68	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Benzo[a]anthracene	**8300**	**D**	140	68	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Benzoic acid	6800	U	14000	6800	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Benzo[b]fluoranthene	**8500**	**D M**	140	68	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Benzo[k]fluoranthene	**4400**	**D M**	140	68	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Benzyl alcohol	550	U	6800	430	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Bis(2-chloroethoxy)methane	550	U	2100	450	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Bis(2-chloroethyl)ether	68	U	2100	41	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
4-Bromophenyl phenyl ether	550	U	1000	270	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Butyl benzyl phthalate	550	U	1000	210	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
2,4-Dimethylphenol	1600	U	3100	410	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Dimethyl phthalate	550	U	1000	350	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20

Client Sample ID: L12SS-301M-0001-SO
Date Collected: 07/03/11 11:15
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-22
Matrix: Solid
Percent Solids: 97.5

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	1600	U	3100	1600	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
2,4-Dinitrophenol	1600	U	6800	1600	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
2,4-Dinitrotoluene	550	U	4100	550	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
2,6-Dinitrotoluene	550	U	4100	430	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Fluoranthene	**16000**	**D**	140	68	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Fluorene	**880**	**D**	140	68	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Hexachlorobenzene	68	U	140	43	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Hexachlorobutadiene	550	U Q	1000	550	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Hexachlorocyclopentadiene	550	U	6800	550	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Hexachloroethane	550	U	1000	180	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
N-Nitrosodiphenylamine	550	U	1000	430	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
N-Nitrosodi-n-propylamine	550	U	1000	550	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
1,4-Dichlorobenzene	550	U	1000	410	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
2-Chloronaphthalene	68	U	1000	68	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
2-Chlorophenol	550	U	1000	550	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
4-Chlorophenyl phenyl ether	550	U	1000	270	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Chrysene	**8100**	**D**	140	23	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Dibenz(a,h)anthracene	**960**	**D**	140	68	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Dibenzofuran	**660**	**J D**	1000	68	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Benzo[g,h,i]perylene	**3800**	**D**	140	68	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Benzo[a]pyrene	**6800**	**D**	140	68	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Di-n-butyl phthalate	550	U	1000	310	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
1,2-Dichlorobenzene	550	U Q	1000	200	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
1,3-Dichlorobenzene	550	U Q	1000	230	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
3,3'-Dichlorobenzidine	1600	U	2100	370	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
2,4-Dichlorophenol	550	U	3100	410	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Diethyl phthalate	550	U	1000	330	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Indeno[1,2,3-cd]pyrene	**3700**	**D**	140	68	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Isophorone	550	U	1000	270	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
2-Methylnaphthalene	**720**	**D**	140	68	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
2-Methylphenol	1600	U	4100	1600	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Naphthalene	**540**	**D**	140	68	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
2-Nitroaniline	550	U	4100	190	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
3-Nitroaniline	1600	U	4100	330	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
4-Nitroaniline	550	U	4100	530	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Nitrobenzene	68	U	2100	45	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
2-Nitrophenol	550	U	1000	550	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
4-Nitrophenol	1600	U	6800	1600	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Pyrene	**13000**	**D**	140	68	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Pentachlorophenol	1600	U	3100	1600	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Phenanthrene	**8700**	**D**	140	68	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
1,2,4-Trichlorobenzene	550	U Q	1000	550	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
2,4,5-Trichlorophenol	550	U Q	3100	510	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
2,4,6-Trichlorophenol	1600	U Q	3100	1600	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Phenol	550	U	1000	550	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Carbazole	**980**	**J D**	1000	550	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
4-Chloroaniline	550	U	3100	350	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
3 & 4 Methylphenol	1600	U	8200	410	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Bis(2-ethylhexyl) phthalate	550	U	1000	390	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
Di-n-octyl phthalate	550	U	1000	550	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20

Client Sample ID: L12SS-301M-0001-SO
Date Collected: 07/03/11 11:15
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-22
Matrix: Solid
Percent Solids: 97.5

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	550	U	3100	430	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20
bis (2-Chloroisopropyl) ether	550	U	2100	190	ug/Kg	☼	07/13/11 11:10	08/01/11 17:37	20

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*62*		*45 - 105*	*07/13/11 11:10*	*08/01/11 17:37*	*20*
2-Fluorophenol (Surr)	*75*	*M*	*35 - 105*	*07/13/11 11:10*	*08/01/11 17:37*	*20*
Nitrobenzene-d5 (Surr)	*60*		*35 - 100*	*07/13/11 11:10*	*08/01/11 17:37*	*20*
Terphenyl-d14 (Surr)	*81*		*30 - 125*	*07/13/11 11:10*	*08/01/11 17:37*	*20*
2,4,6-Tribromophenol (Surr)	*60*	*M*	*35 - 125*	*07/13/11 11:10*	*08/01/11 17:37*	*20*
Phenol-d5 (Surr)	*71*		*40 - 100*	*07/13/11 11:10*	*08/01/11 17:37*	*20*

Method: 8081/DOD - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	34	U	100	32	ug/Kg	☼	07/13/11 12:29	07/31/11 01:43	50
4,4'-DDE	34	U	87	20	ug/Kg	☼	07/13/11 12:29	07/31/11 01:43	50
4,4'-DDT	34	U	100	32	ug/Kg	☼	07/13/11 12:29	07/31/11 01:43	50
Aldrin	68	U	210	62	ug/Kg	☼	07/13/11 12:29	07/31/11 01:43	50
alpha-BHC	68	U Q	130	37	ug/Kg	☼	07/13/11 12:29	07/31/11 01:43	50
alpha-Chlordane	68	U	150	48	ug/Kg	☼	07/13/11 12:29	07/31/11 01:43	50
beta-BHC	68	U Q	180	56	ug/Kg	☼	07/13/11 12:29	07/31/11 01:43	50
delta-BHC	68	U	210	62	ug/Kg	☼	07/13/11 12:29	07/31/11 01:43	50
Dieldrin	34	U	87	24	ug/Kg	☼	07/13/11 12:29	07/31/11 01:43	50
Endosulfan I	34	U M	87	27	ug/Kg	☼	07/13/11 12:29	07/31/11 01:43	50
Endosulfan II	68	U	130	42	ug/Kg	☼	07/13/11 12:29	07/31/11 01:43	50
Endosulfan sulfate	68	U	150	45	ug/Kg	☼	07/13/11 12:29	07/31/11 01:43	50
Endrin	34	U	87	26	ug/Kg	☼	07/13/11 12:29	07/31/11 01:43	50
Endrin aldehyde	68	U	150	51	ug/Kg	☼	07/13/11 12:29	07/31/11 01:43	50
Endrin ketone	**130**	**D**	100	32	ug/Kg	☼	07/13/11 12:29	07/31/11 01:43	50
gamma-BHC (Lindane)	68	U Q	130	38	ug/Kg	☼	07/13/11 12:29	07/31/11 01:43	50
gamma-Chlordane	**71**	**J D Q**	87	22	ug/Kg	☼	07/13/11 12:29	07/31/11 01:43	50
Heptachlor	68	U	180	56	ug/Kg	☼	07/13/11 12:29	07/31/11 01:43	50
Heptachlor epoxide	68	U	130	41	ug/Kg	☼	07/13/11 12:29	07/31/11 01:43	50
Methoxychlor	170	U	260	77	ug/Kg	☼	07/13/11 12:29	07/31/11 01:43	50
Toxaphene	1000	U M	3400	980	ug/Kg	☼	07/13/11 12:29	07/31/11 01:43	50

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*Q*	*55 - 130*	*07/13/11 12:29*	*07/31/11 01:43*	*50*
DCB Decachlorobiphenyl	*0*	*Q*	*55 - 130*	*07/13/11 12:29*	*07/31/11 01:43*	*50*
Tetrachloro-m-xylene	*3050*	*Q*	*70 - 125*	*07/13/11 12:29*	*07/31/11 01:43*	*50*
Tetrachloro-m-xylene	*135*	*Q*	*70 - 125*	*07/13/11 12:29*	*07/31/11 01:43*	*50*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	130	U	330	110	ug/Kg	☼	07/13/11 13:31	07/20/11 21:29	5
Aroclor 1221	130	U	260	82	ug/Kg	☼	07/13/11 13:31	07/20/11 21:29	5
Aroclor 1232	130	U	230	72	ug/Kg	☼	07/13/11 13:31	07/20/11 21:29	5
Aroclor 1242	130	U	210	67	ug/Kg	☼	07/13/11 13:31	07/20/11 21:29	5
Aroclor 1248	130	U	280	87	ug/Kg	☼	07/13/11 13:31	07/20/11 21:29	5
Aroclor 1254	130	U	280	87	ug/Kg	☼	07/13/11 13:31	07/20/11 21:29	5
Aroclor 1260	**930**	**D**	280	87	ug/Kg	☼	07/13/11 13:31	07/20/11 21:29	5

Client Sample ID: L12SS-301M-0001-SO
Date Collected: 07/03/11 11:15
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-22
Matrix: Solid
Percent Solids: 97.5

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*40 - 140*	*07/13/11 13:31*	*07/20/11 21:29*	*5*
Tetrachloro-m-xylene	*86*		*40 - 140*	*07/13/11 13:31*	*07/20/11 21:29*	*5*
DCB Decachlorobiphenyl	*460*	*Q*	*60 - 125*	*07/13/11 13:31*	*07/20/11 21:29*	*5*
DCB Decachlorobiphenyl	*257*	*Q*	*60 - 125*	*07/13/11 13:31*	*07/20/11 21:29*	*5*

Method: 8330 (Modified) - Organic Compounds by UV/HPLC

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	0.040 U		0.25	0.020	mg/kg		07/15/11 12:00	07/27/11 18:35	0.99

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.10 U		0.25	0.020	mg/kg		07/15/11 12:00	07/29/11 07:28	1
1,3-Dinitrobenzene	0.10 U		0.25	0.050	mg/kg		07/15/11 12:00	07/29/11 07:28	1
2,4,6-Trinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/15/11 12:00	07/29/11 07:28	1
2,4-Dinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/15/11 12:00	07/29/11 07:28	1
2,6-Dinitrotoluene	0.10 U		0.25	0.030	mg/kg		07/15/11 12:00	07/29/11 07:28	1
2-Amino-4,6-dinitrotoluene	0.10 U		0.25	0.10	mg/kg		07/15/11 12:00	07/29/11 07:28	1
2-Nitrotoluene	0.10 U		0.25	0.080	mg/kg		07/15/11 12:00	07/29/11 07:28	1
3-Nitrotoluene	0.10 U		0.25	0.070	mg/kg		07/15/11 12:00	07/29/11 07:28	1
4-Amino-2,6-dinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/15/11 12:00	07/29/11 07:28	1
4-Nitrotoluene	0.10 U		0.25	0.080	mg/kg		07/15/11 12:00	07/29/11 07:28	1
HMX	0.10 U		0.25	0.030	mg/kg		07/15/11 12:00	07/29/11 07:28	1
Nitrobenzene	**0.20**	**J PG**	0.25	0.050	mg/kg		07/15/11 12:00	07/29/11 07:28	1
Nitroglycerin	0.25 U		0.50	0.13	mg/kg		07/15/11 12:00	07/29/11 07:28	1
PETN	0.25 U		0.50	0.16	mg/kg		07/15/11 12:00	07/29/11 07:28	1
RDX	0.10 U		0.25	0.040	mg/kg		07/15/11 12:00	07/29/11 07:28	1
Tetryl	**0.25**	**PG**	0.25	0.050	mg/kg		07/15/11 12:00	07/29/11 07:28	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*90*		*78 - 108*	*07/15/11 12:00*	*07/29/11 07:28*	*1*

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**24000**	**D**	87	22	mg/Kg	☼	07/15/11 12:40	08/29/11 14:55	10
Antimony	**1.4**	**J D**	1.7	0.54	mg/Kg	☼	07/15/11 12:40	08/29/11 14:55	10
Arsenic	**12**		0.43	0.045	mg/Kg	☼	07/15/11 12:40	08/25/11 23:29	1
Barium	**84**	**D**	4.3	1.1	mg/Kg	☼	07/15/11 12:40	08/29/11 14:55	10
Beryllium	**0.94**	**D**	0.87	0.030	mg/Kg	☼	07/15/11 12:40	08/29/11 14:55	10
Cadmium	**1.4**	**J D**	1.7	0.027	mg/Kg	☼	07/15/11 12:40	08/29/11 14:55	10
Calcium	**19000**	**D**	1700	350	mg/Kg	☼	07/15/11 12:40	08/29/11 14:55	10
Chromium	**58**		0.43	0.14	mg/Kg	☼	07/15/11 12:40	08/25/11 23:29	1
Cobalt	**6.7**	**D**	0.87	0.039	mg/Kg	☼	07/15/11 12:40	08/29/11 14:55	10
Copper	**650**	**D**	3.5	0.96	mg/Kg	☼	07/15/11 12:40	08/29/11 14:55	10
Iron	**25000**		43	9.5	mg/Kg	☼	07/15/11 12:40	08/25/11 23:29	1
Lead	**110**	**D**	2.6	0.61	mg/Kg	☼	07/15/11 12:40	08/29/11 14:55	10
Magnesium	**4300**		87	7.7	mg/Kg	☼	07/15/11 12:40	08/25/11 23:29	1
Manganese	**820**	**D**	4.3	1.4	mg/Kg	☼	07/15/11 12:40	08/29/11 14:55	10
Nickel	**54**		0.43	0.075	mg/Kg	☼	07/15/11 12:40	08/25/11 23:29	1
Potassium	**980**		87	3.3	mg/Kg	☼	07/15/11 12:40	08/25/11 23:29	1
Selenium	**1.2**		0.43	0.018	mg/Kg	☼	07/15/11 12:40	08/25/11 23:29	1
Silver	**0.32**	**J D**	0.87	0.14	mg/Kg	☼	07/15/11 12:40	08/29/11 14:55	10
Sodium	**130**		87	12	mg/Kg	☼	07/15/11 12:40	08/25/11 23:29	1

Client Sample ID: L12SS-301M-0001-SO

Date Collected: 07/03/11 11:15
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-22

Matrix: Solid
Percent Solids: 97.5

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	1.3	U	1.7	0.49	mg/Kg	☼	07/15/11 12:40	08/29/11 14:55	10
Vanadium	**21**		0.43	0.038	mg/Kg	☼	07/15/11 12:40	08/25/11 23:29	1
Zinc	**340**	**D**	35	8.7	mg/Kg	☼	07/15/11 12:40	08/29/11 14:55	10

Method: 7471/DOD - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**		0.089	0.012	mg/Kg	☼	07/15/11 15:30	07/18/11 17:14	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	**0.29**	**J**	0.82	0.28	mg/Kg	☼	07/18/11 14:13	07/20/11 16:29	1

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	**2.6**	**J**	5.1	0.80	mg/kg	☼	07/20/11 05:35	07/21/11 13:03	1

Client Sample ID: L12SS-301V-0001-SO

Date Collected: 07/03/11 11:20
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-23

Matrix: Solid
Percent Solids: 95.1

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	7.0	U	180	15	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
1,1,2,2-Tetrachloroethane	18	U	180	6.2	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
1,1,2-Trichloroethane	18	U	180	8.4	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
1,1-Dichloroethane	18	U	180	12	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
1,1-Dichloroethene	18	U	180	13	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
1,2-Dichloroethane	18	U	180	7.0	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
1,2-Dichloroethene, Total	5.8	U	350	5.8	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
1,2-Dichloropropane	7.0	U	180	5.8	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
2-Butanone	70	U	700	30	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
2-Hexanone	35	U	700	14	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
4-Methyl-2-pentanone	70	U	700	34	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
Acetone	140	U	700	120	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
Benzene	18	U	180	8.4	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
Bromoform	18	U	180	13	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
Bromomethane	35	U	180	20	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
Carbon disulfide	**34**	**J**	180	8.4	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
Carbon tetrachloride	7.0	U	180	4.5	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
Chlorobenzene	7.0	U	180	4.5	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
Chloromethane	18	U	180	9.8	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
cis-1,2-Dichloroethene	7.0	U	180	4.8	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
cis-1,3-Dichloropropene	7.0	U	180	5.5	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
Dibromochloromethane	18	U	180	8.4	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
Bromodichloromethane	18	U	180	7.0	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
Ethylbenzene	**12**	**J**	180	3.8	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
Methylene Chloride	**73**	**J**	180	54	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
Styrene	7.0	U	180	3.9	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
Tetrachloroethene	18	U	180	8.4	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
Toluene	**50**	**J**	180	12	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
trans-1,2-Dichloroethene	18	U	180	6.5	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
trans-1,3-Dichloropropene	18	U	180	14	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1

Client Sample ID: L12SS-301V-0001-SO

Date Collected: 07/03/11 11:20
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-23

Matrix: Solid
Percent Solids: 95.1

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	18	U	180	6.8	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
Vinyl chloride	18	U	180	13	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
Xylenes (total)	**64**	**J**	350	5.7	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
Chloroform	18	U	180	6.2	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
Bromochloromethane	18	U	180	9.1	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
1,2-Dibromoethane	18	U	180	7.0	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1
Chloroethane	70	U	180	43	ug/Kg	☼	07/12/11 15:40	07/13/11 13:34	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*78*	*Q*	*85 - 115*	*07/12/11 15:40*	*07/13/11 13:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*61 - 130*	*07/12/11 15:40*	*07/13/11 13:34*	*1*
4-Bromofluorobenzene (Surr)	*78*	*Q*	*85 - 120*	*07/12/11 15:40*	*07/13/11 13:34*	*1*
Dibromofluoromethane (Surr)	*70*		*59 - 138*	*07/12/11 15:40*	*07/13/11 13:34*	*1*

Client Sample ID: LL1SB-644M-0101-SO

Date Collected: 07/05/11 11:00
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-24

Matrix: Solid
Percent Solids: 99.3

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Benzo[a]anthracene	**21**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Benzoic acid	330	U	660	330	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Benzo[b]fluoranthene	**28**	**M**	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Benzo[k]fluoranthene	**15**	**M**	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Benzyl alcohol	27	U	330	21	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Bis(2-chloroethoxy)methane	27	U	100	22	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Bis(2-chloroethyl)ether	3.3	U	100	2.0	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
4-Bromophenyl phenyl ether	27	U	50	13	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Butyl benzyl phthalate	27	U	50	10	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
2,4-Dimethylphenol	80	U	150	20	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Dimethyl phthalate	27	U	50	17	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
4,6-Dinitro-2-methylphenol	80	U	150	80	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
2,4-Dinitrophenol	80	U	330	80	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
2,4-Dinitrotoluene	27	U	200	27	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
2,6-Dinitrotoluene	27	U	200	21	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Fluoranthene	**41**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Fluorene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Hexachlorobenzene	3.3	U	6.7	2.1	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Hexachlorobutadiene	27	U Q	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Hexachlorocyclopentadiene	27	U	330	27	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Hexachloroethane	27	U	50	9.0	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
N-Nitrosodiphenylamine	27	U	50	21	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
N-Nitrosodi-n-propylamine	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
1,4-Dichlorobenzene	27	U	50	20	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
2-Chloronaphthalene	3.3	U	50	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
2-Chlorophenol	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
4-Chlorophenyl phenyl ether	27	U	50	13	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1

Client Sample ID: LL1SB-644M-0101-SO
Date Collected: 07/05/11 11:00
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-24
Matrix: Solid
Percent Solids: 99.3

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**21**		6.7	1.1	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Dibenzofuran	3.3	U	50	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Benzo[g,h,i]perylene	**19**	**M**	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Benzo[a]pyrene	**19**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Di-n-butyl phthalate	**37**	**J**	50	15	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
1,2-Dichlorobenzene	27	U Q	50	9.7	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
1,3-Dichlorobenzene	27	U Q	50	11	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
3,3'-Dichlorobenzidine	80	U	100	18	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
2,4-Dichlorophenol	27	U	150	20	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Diethyl phthalate	27	U	50	16	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Indeno[1,2,3-cd]pyrene	**14**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Isophorone	27	U	50	13	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
2-Methylnaphthalene	**9.3**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
2-Methylphenol	80	U	200	80	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
2-Nitroaniline	27	U	200	9.1	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
3-Nitroaniline	80	U	200	16	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
4-Nitroaniline	27	U	200	26	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Nitrobenzene	3.3	U	100	2.2	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
2-Nitrophenol	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
4-Nitrophenol	80	U	330	80	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Pyrene	**34**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Pentachlorophenol	80	U	150	80	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Phenanthrene	**25**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
1,2,4-Trichlorobenzene	27	U Q	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
2,4,5-Trichlorophenol	27	U Q	150	25	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
2,4,6-Trichlorophenol	80	U Q	150	80	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Phenol	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Carbazole	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
4-Chloroaniline	27	U	150	17	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
3 & 4 Methylphenol	80	U	400	20	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Bis(2-ethylhexyl) phthalate	**270**		50	19	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
Di-n-octyl phthalate	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
4-Chloro-3-methylphenol	27	U	150	21	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1
bis (2-Chloroisopropyl) ether	27	U	100	9.5	ug/Kg	☼	07/13/11 11:10	08/01/11 16:03	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*60*		*45 - 105*	*07/13/11 11:10*	*08/01/11 16:03*	*1*
2-Fluorophenol (Surr)	*73*		*35 - 105*	*07/13/11 11:10*	*08/01/11 16:03*	*1*
Nitrobenzene-d5 (Surr)	*60*		*35 - 100*	*07/13/11 11:10*	*08/01/11 16:03*	*1*
Terphenyl-d14 (Surr)	*70*		*30 - 125*	*07/13/11 11:10*	*08/01/11 16:03*	*1*
2,4,6-Tribromophenol (Surr)	*42*		*35 - 125*	*07/13/11 11:10*	*08/01/11 16:03*	*1*
Phenol-d5 (Surr)	*73*		*40 - 100*	*07/13/11 11:10*	*08/01/11 16:03*	*1*

Method: 8081/DOD - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	3.4	U	10	3.1	ug/Kg	☼	07/13/11 12:29	07/31/11 02:12	5
4,4'-DDE	**87**	**D**	8.5	2.0	ug/Kg	☼	07/13/11 12:29	07/31/11 02:12	5
4,4'-DDT	3.4	U	10	3.2	ug/Kg	☼	07/13/11 12:29	07/31/11 02:12	5
Aldrin	6.7	U	20	6.0	ug/Kg	☼	07/13/11 12:29	07/31/11 02:12	5

Client Sample ID: LL1SB-644M-0101-SO
Date Collected: 07/05/11 11:00
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-24
Matrix: Solid
Percent Solids: 99.3

Method: 8081/DOD - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	6.7	U Q	13	3.7	ug/Kg	☼	07/13/11 12:29	07/31/11 02:12	5
alpha-Chlordane	6.7	U	15	4.7	ug/Kg	☼	07/13/11 12:29	07/31/11 02:12	5
beta-BHC	6.7	U Q	18	5.5	ug/Kg	☼	07/13/11 12:29	07/31/11 02:12	5
delta-BHC	6.7	U	20	6.0	ug/Kg	☼	07/13/11 12:29	07/31/11 02:12	5
Dieldrin	3.4	U	8.5	2.4	ug/Kg	☼	07/13/11 12:29	07/31/11 02:12	5
Endosulfan I	3.4	U	8.5	2.6	ug/Kg	☼	07/13/11 12:29	07/31/11 02:12	5
Endosulfan II	6.7	U	13	4.1	ug/Kg	☼	07/13/11 12:29	07/31/11 02:12	5
Endosulfan sulfate	6.7	U	15	4.4	ug/Kg	☼	07/13/11 12:29	07/31/11 02:12	5
Endrin	3.4	U	8.5	2.5	ug/Kg	☼	07/13/11 12:29	07/31/11 02:12	5
Endrin aldehyde	**19**	**D**	15	5.0	ug/Kg	☼	07/13/11 12:29	07/31/11 02:12	5
Endrin ketone	3.4	U	10	3.2	ug/Kg	☼	07/13/11 12:29	07/31/11 02:12	5
gamma-BHC (Lindane)	6.7	U Q	13	3.7	ug/Kg	☼	07/13/11 12:29	07/31/11 02:12	5
gamma-Chlordane	**3.4**	**J D**	8.5	2.1	ug/Kg	☼	07/13/11 12:29	07/31/11 02:12	5
Heptachlor	6.7	U	18	5.5	ug/Kg	☼	07/13/11 12:29	07/31/11 02:12	5
Heptachlor epoxide	6.7	U	13	4.0	ug/Kg	☼	07/13/11 12:29	07/31/11 02:12	5
Methoxychlor	17	U M	25	7.5	ug/Kg	☼	07/13/11 12:29	07/31/11 02:12	5
Toxaphene	100	U M	340	96	ug/Kg	☼	07/13/11 12:29	07/31/11 02:12	5

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*112*		*55 - 130*	*07/13/11 12:29*	*07/31/11 02:12*	*5*
DCB Decachlorobiphenyl	*100*		*55 - 130*	*07/13/11 12:29*	*07/31/11 02:12*	*5*
Tetrachloro-m-xylene	*395*	*Q*	*70 - 125*	*07/13/11 12:29*	*07/31/11 02:12*	*5*
Tetrachloro-m-xylene	*123*		*70 - 125*	*07/13/11 12:29*	*07/31/11 02:12*	*5*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	120	U	330	110	ug/Kg	☼	07/13/11 13:31	07/20/11 21:44	5
Aroclor 1221	120	U	250	80	ug/Kg	☼	07/13/11 13:31	07/20/11 21:44	5
Aroclor 1232	120	U	230	70	ug/Kg	☼	07/13/11 13:31	07/20/11 21:44	5
Aroclor 1242	120	U	200	65	ug/Kg	☼	07/13/11 13:31	07/20/11 21:44	5
Aroclor 1248	120	U	280	85	ug/Kg	☼	07/13/11 13:31	07/20/11 21:44	5
Aroclor 1254	**790**	**D**	280	85	ug/Kg	☼	07/13/11 13:31	07/20/11 21:44	5
Aroclor 1260	120	U	280	85	ug/Kg	☼	07/13/11 13:31	07/20/11 21:44	5

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*40 - 140*	*07/13/11 13:31*	*07/20/11 21:44*	*5*
Tetrachloro-m-xylene	*95*		*40 - 140*	*07/13/11 13:31*	*07/20/11 21:44*	*5*
DCB Decachlorobiphenyl	*95*		*60 - 125*	*07/13/11 13:31*	*07/20/11 21:44*	*5*
DCB Decachlorobiphenyl	*144*	*Q*	*60 - 125*	*07/13/11 13:31*	*07/20/11 21:44*	*5*

Method: 8330 (Modified) - Organic Compounds by UV/HPLC

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	0.039 U		0.24	0.020	mg/kg		07/15/11 12:00	07/27/11 18:50	0.98

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**0.088**	**J**	0.24	0.019	mg/kg		07/15/11 12:00	07/28/11 04:45	0.97
1,3-Dinitrobenzene	0.097 U		0.24	0.048	mg/kg		07/15/11 12:00	07/28/11 04:45	0.97
2,4,6-Trinitrotoluene	**5.1**		0.24	0.019	mg/kg		07/15/11 12:00	07/28/11 04:45	0.97
2,4-Dinitrotoluene	0.097 U		0.24	0.019	mg/kg		07/15/11 12:00	07/28/11 04:45	0.97
2,6-Dinitrotoluene	0.097 U		0.24	0.029	mg/kg		07/15/11 12:00	07/28/11 04:45	0.97

Client Sample ID: LL1SB-644M-0101-SO
Date Collected: 07/05/11 11:00
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-24
Matrix: Solid

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A) (Continued)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Amino-4,6-dinitrotoluene	0.097 U		0.24	0.097	mg/kg		07/15/11 12:00	07/28/11 04:45	0.97
2-Nitrotoluene	0.097 U		0.24	0.078	mg/kg		07/15/11 12:00	07/28/11 04:45	0.97
3-Nitrotoluene	0.097 U		0.24	0.068	mg/kg		07/15/11 12:00	07/28/11 04:45	0.97
4-Amino-2,6-dinitrotoluene	**0.22**	**J**	0.24	0.019	mg/kg		07/15/11 12:00	07/28/11 04:45	0.97
4-Nitrotoluene	0.097 U		0.24	0.078	mg/kg		07/15/11 12:00	07/28/11 04:45	0.97
HMX	**0.38**		0.24	0.029	mg/kg		07/15/11 12:00	07/28/11 04:45	0.97
Nitrobenzene	0.097 U		0.24	0.048	mg/kg		07/15/11 12:00	07/28/11 04:45	0.97
Nitroglycerin	0.24 U		0.48	0.13	mg/kg		07/15/11 12:00	07/28/11 04:45	0.97
PETN	0.24 U		0.48	0.16	mg/kg		07/15/11 12:00	07/28/11 04:45	0.97
RDX	**0.24**		0.24	0.039	mg/kg		07/15/11 12:00	07/28/11 04:45	0.97
Tetryl	0.097 U		0.24	0.048	mg/kg		07/15/11 12:00	07/28/11 04:45	0.97

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*93*		*78 - 108*	*07/15/11 12:00*	*07/28/11 04:45*	*0.97*

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4300**	**D**	43	11	mg/Kg	☼	07/15/11 12:40	08/29/11 14:21	5
Antimony	0.13	U	0.17	0.053	mg/Kg	☼	07/15/11 12:40	08/25/11 22:54	1
Arsenic	**5.9**		0.43	0.045	mg/Kg	☼	07/15/11 12:40	08/25/11 22:54	1
Barium	**30**		0.43	0.11	mg/Kg	☼	07/15/11 12:40	08/25/11 22:54	1
Beryllium	**0.29**	**J D**	0.43	0.015	mg/Kg	☼	07/15/11 12:40	08/29/11 14:21	5
Cadmium	**0.47**	**J D**	0.86	0.013	mg/Kg	☼	07/15/11 12:40	08/29/11 14:21	5
Calcium	**3900**		170	34	mg/Kg	☼	07/15/11 12:40	08/25/11 22:54	1
Chromium	**15**		0.43	0.14	mg/Kg	☼	07/15/11 12:40	08/25/11 22:54	1
Cobalt	**4.8**	**D**	0.43	0.019	mg/Kg	☼	07/15/11 12:40	08/29/11 14:21	5
Copper	**10**		0.34	0.095	mg/Kg	☼	07/15/11 12:40	08/25/11 22:54	1
Iron	**15000**		43	9.4	mg/Kg	☼	07/15/11 12:40	08/25/11 22:54	1
Lead	**36**		0.26	0.061	mg/Kg	☼	07/15/11 12:40	08/25/11 22:54	1
Magnesium	**1500**		86	7.7	mg/Kg	☼	07/15/11 12:40	08/25/11 22:54	1
Manganese	**540**	**D**	2.2	0.69	mg/Kg	☼	07/15/11 12:40	08/29/11 14:21	5
Nickel	**13**		0.43	0.074	mg/Kg	☼	07/15/11 12:40	08/25/11 22:54	1
Potassium	**580**		86	3.2	mg/Kg	☼	07/15/11 12:40	08/25/11 22:54	1
Selenium	**0.55**		0.43	0.018	mg/Kg	☼	07/15/11 12:40	08/25/11 22:54	1
Silver	0.22	U	0.43	0.069	mg/Kg	☼	07/15/11 12:40	08/29/11 14:21	5
Sodium	**31**	**J**	86	12	mg/Kg	☼	07/15/11 12:40	08/25/11 22:54	1
Thallium	**0.095**	**J**	0.17	0.048	mg/Kg	☼	07/15/11 12:40	08/25/11 22:54	1
Vanadium	**8.9**		0.43	0.037	mg/Kg	☼	07/15/11 12:40	08/25/11 22:54	1
Zinc	**68**	**D**	17	4.3	mg/Kg	☼	07/15/11 12:40	08/29/11 14:21	5

Method: 7471/DOD - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032	U	0.097	0.014	mg/Kg	☼	07/15/11 15:30	07/18/11 17:08	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	**0.71**	**J**	0.81	0.27	mg/Kg	☼	07/18/11 14:13	07/20/11 16:32	1

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	**2.1**	**J**	5.0	0.79	mg/kg	☼	07/20/11 05:35	07/21/11 13:05	1

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1728-1

Client Sample ID: LL1SB-644V-0101-SO
Date Collected: 07/05/11 11:09
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-25
Matrix: Solid

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.4	U	160	13	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
1,1,2,2-Tetrachloroethane	16	U	160	5.7	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
1,1,2-Trichloroethane	16	U	160	7.7	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
1,1-Dichloroethane	16	U	160	11	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
1,1-Dichloroethene	16	U	160	12	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
1,2-Dichloroethane	16	U	160	6.4	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
1,2-Dichloroethene, Total	5.3	U	320	5.3	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
1,2-Dichloropropane	6.4	U	160	5.3	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
2-Butanone	64	U	640	28	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
2-Hexanone	32	U	640	13	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
4-Methyl-2-pentanone	64	U	640	31	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
Acetone	130	U	640	110	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
Benzene	16	U	160	7.7	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
Bromoform	16	U	160	12	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
Bromomethane	32	U	160	19	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
Carbon disulfide	16	U	160	7.7	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
Carbon tetrachloride	6.4	U	160	4.1	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
Chlorobenzene	6.4	U	160	4.1	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
Chloromethane	16	U	160	9.0	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
cis-1,2-Dichloroethene	6.4	U	160	4.4	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
cis-1,3-Dichloropropene	6.4	U	160	5.1	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
Dibromochloromethane	16	U	160	7.7	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
Bromodichloromethane	16	U	160	6.4	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
Ethylbenzene	6.4	U	160	3.5	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
Methylene Chloride	**68**	**J**	160	49	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
Styrene	6.4	U	160	3.6	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
Tetrachloroethene	16	U	160	7.7	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
Toluene	16	U	160	11	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
trans-1,2-Dichloroethene	16	U	160	5.9	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
trans-1,3-Dichloropropene	16	U	160	13	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
Trichloroethene	16	U	160	6.2	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
Vinyl chloride	16	U	160	12	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
Xylenes (total)	19	U	320	5.2	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
Chloroform	16	U	160	5.6	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
Bromochloromethane	16	U	160	8.3	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
1,2-Dibromoethane	16	U	160	6.4	ug/Kg		07/12/11 14:55	07/12/11 18:46	1
Chloroethane	64	U	160	39	ug/Kg		07/12/11 14:55	07/12/11 18:46	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*77*	*Q*	*85 - 115*	*07/12/11 14:55*	*07/12/11 18:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*61 - 130*	*07/12/11 14:55*	*07/12/11 18:46*	*1*
4-Bromofluorobenzene (Surr)	*74*	*Q*	*85 - 120*	*07/12/11 14:55*	*07/12/11 18:46*	*1*
Dibromofluoromethane (Surr)	*70*		*59 - 138*	*07/12/11 14:55*	*07/12/11 18:46*	*1*

Client Sample ID: LL1SB-644M-0102-SO
Date Collected: 07/05/11 10:57
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-26
Matrix: Solid
Percent Solids: 98.2

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**18**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Acenaphthylene	3.4	U	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Anthracene	**60**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Benzo[a]anthracene	**130**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Benzoic acid	340	U	670	340	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Benzo[b]fluoranthene	**150**	**M**	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Benzo[k]fluoranthene	**60**	**M**	6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Benzyl alcohol	27	U	340	21	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Bis(2-chloroethoxy)methane	27	U	100	22	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Bis(2-chloroethyl)ether	3.4	U	100	2.0	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
4-Bromophenyl phenyl ether	27	U	51	13	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Butyl benzyl phthalate	27	U	51	10	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
2,4-Dimethylphenol	81	U	150	20	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Dimethyl phthalate	27	U	51	17	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
4,6-Dinitro-2-methylphenol	81	U	150	81	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
2,4-Dinitrophenol	81	U	340	81	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
2,4-Dinitrotoluene	27	U	200	27	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
2,6-Dinitrotoluene	27	U	200	21	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Fluoranthene	**340**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Fluorene	**23**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Hexachlorobenzene	3.4	U	6.8	2.1	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Hexachlorobutadiene	27	U Q	51	27	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Hexachlorocyclopentadiene	27	U	340	27	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Hexachloroethane	27	U	51	9.2	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
N-Nitrosodiphenylamine	27	U	51	21	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
N-Nitrosodi-n-propylamine	27	U	51	27	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
1,4-Dichlorobenzene	27	U	51	20	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
2-Chloronaphthalene	3.4	U	51	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
2-Chlorophenol	27	U	51	27	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
4-Chlorophenyl phenyl ether	27	U	51	13	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Chrysene	**120**		6.8	1.1	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Dibenz(a,h)anthracene	**18**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Dibenzofuran	3.4	U	51	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Benzo[g,h,i]perylene	**65**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Benzo[a]pyrene	**100**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Di-n-butyl phthalate	**27**	**J**	51	15	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
1,2-Dichlorobenzene	27	U Q	51	9.9	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
1,3-Dichlorobenzene	27	U Q	51	11	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
3,3'-Dichlorobenzidine	81	U	100	18	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
2,4-Dichlorophenol	27	U	150	20	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Diethyl phthalate	**33**	**J**	51	16	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Indeno[1,2,3-cd]pyrene	**59**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Isophorone	27	U	51	13	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
2-Methylnaphthalene	**21**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
2-Methylphenol	81	U	200	81	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Naphthalene	**12**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
2-Nitroaniline	27	U	200	9.3	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
3-Nitroaniline	81	U	200	16	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
4-Nitroaniline	27	U	200	26	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Nitrobenzene	3.4	U	100	2.2	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1

Client Sample ID: LL1SB-644M-0102-SO
Date Collected: 07/05/11 10:57
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-26
Matrix: Solid
Percent Solids: 98.2

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	27	U	51	27	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
4-Nitrophenol	81	U	340	81	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Pyrene	**270**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Pentachlorophenol	81	U	150	81	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Phenanthrene	**230**		6.8	3.4	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
1,2,4-Trichlorobenzene	27	U Q	51	27	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
2,4,5-Trichlorophenol	27	U Q	150	25	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
2,4,6-Trichlorophenol	81	U Q	150	81	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Phenol	**31**	**J**	51	27	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Carbazole	27	U	51	27	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
4-Chloroaniline	27	U	150	17	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
3 & 4 Methylphenol	81	U	410	20	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Bis(2-ethylhexyl) phthalate	**380**		51	19	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
Di-n-octyl phthalate	27	U	51	27	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
4-Chloro-3-methylphenol	27	U	150	21	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1
bis (2-Chloroisopropyl) ether	27	U	100	9.7	ug/Kg	☼	07/13/11 11:10	08/08/11 17:00	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*52*		*45 - 105*	*07/13/11 11:10*	*08/08/11 17:00*	*1*
2-Fluorophenol (Surr)	*62*		*35 - 105*	*07/13/11 11:10*	*08/08/11 17:00*	*1*
Nitrobenzene-d5 (Surr)	*52*		*35 - 100*	*07/13/11 11:10*	*08/08/11 17:00*	*1*
Terphenyl-d14 (Surr)	*70*		*30 - 125*	*07/13/11 11:10*	*08/08/11 17:00*	*1*
2,4,6-Tribromophenol (Surr)	*34*	*Q*	*35 - 125*	*07/13/11 11:10*	*08/08/11 17:00*	*1*
Phenol-d5 (Surr)	*66*		*40 - 100*	*07/13/11 11:10*	*08/08/11 17:00*	*1*

Method: 8081/DOD - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	14	U	41	13	ug/Kg	☼	07/13/11 12:29	08/04/11 21:36	20
4,4'-DDE	**190**	**D**	35	7.9	ug/Kg	☼	07/13/11 12:29	08/04/11 21:36	20
4,4'-DDT	14	U	41	13	ug/Kg	☼	07/13/11 12:29	08/04/11 21:36	20
Aldrin	27	U	81	24	ug/Kg	☼	07/13/11 12:29	08/04/11 21:36	20
alpha-BHC	27	U Q	51	15	ug/Kg	☼	07/13/11 12:29	08/04/11 21:36	20
alpha-Chlordane	27	U	61	19	ug/Kg	☼	07/13/11 12:29	08/04/11 21:36	20
beta-BHC	27	U Q	71	22	ug/Kg	☼	07/13/11 12:29	08/04/11 21:36	20
delta-BHC	27	U	81	24	ug/Kg	☼	07/13/11 12:29	08/04/11 21:36	20
Dieldrin	14	U	35	9.6	ug/Kg	☼	07/13/11 12:29	08/04/11 21:36	20
Endosulfan I	**11**	**J D**	35	11	ug/Kg	☼	07/13/11 12:29	08/04/11 21:36	20
Endosulfan II	27	U	51	17	ug/Kg	☼	07/13/11 12:29	08/04/11 21:36	20
Endosulfan sulfate	27	U	61	18	ug/Kg	☼	07/13/11 12:29	08/04/11 21:36	20
Endrin	14	U	35	10	ug/Kg	☼	07/13/11 12:29	08/04/11 21:36	20
Endrin aldehyde	**360**	**D**	61	20	ug/Kg	☼	07/13/11 12:29	08/04/11 21:36	20
Endrin ketone	14	U	41	13	ug/Kg	☼	07/13/11 12:29	08/04/11 21:36	20
gamma-BHC (Lindane)	27	U Q	51	15	ug/Kg	☼	07/13/11 12:29	08/04/11 21:36	20
gamma-Chlordane	**580**	**D Q**	35	8.5	ug/Kg	☼	07/13/11 12:29	08/04/11 21:36	20
Heptachlor	27	U	71	22	ug/Kg	☼	07/13/11 12:29	08/04/11 21:36	20
Heptachlor epoxide	27	U	51	16	ug/Kg	☼	07/13/11 12:29	08/04/11 21:36	20
Methoxychlor	67	U	100	31	ug/Kg	☼	07/13/11 12:29	08/04/11 21:36	20
Toxaphene	410	U M	1400	390	ug/Kg	☼	07/13/11 12:29	08/04/11 21:36	20

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*118*		*55 - 130*	*07/13/11 12:29*	*08/04/11 21:36*	*20*

Client Sample ID: LL1SB-644M-0102-SO
Date Collected: 07/05/11 10:57
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-26
Matrix: Solid
Percent Solids: 98.2

Method: 8081/DOD - Organochlorine Pesticides (GC) (Continued)

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*181*	*Q*	*55 - 130*	*07/13/11 12:29*	*08/04/11 21:36*	*20*
Tetrachloro-m-xylene	*163*	*Q*	*70 - 125*	*07/13/11 12:29*	*08/04/11 21:36*	*20*
Tetrachloro-m-xylene	*103*		*70 - 125*	*07/13/11 12:29*	*08/04/11 21:36*	*20*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	1300	U	3300	1100	ug/Kg	☼	07/13/11 13:31	07/23/11 22:03	50
Aroclor 1221	1300	U	2500	810	ug/Kg	☼	07/13/11 13:31	07/23/11 22:03	50
Aroclor 1232	1300	U	2300	710	ug/Kg	☼	07/13/11 13:31	07/23/11 22:03	50
Aroclor 1242	1300	U	2000	660	ug/Kg	☼	07/13/11 13:31	07/23/11 22:03	50
Aroclor 1248	1300	U	2800	860	ug/Kg	☼	07/13/11 13:31	07/23/11 22:03	50
Aroclor 1254	**14000**	**D**	2800	860	ug/Kg	☼	07/13/11 13:31	07/23/11 22:03	50
Aroclor 1260	1300	U	2800	860	ug/Kg	☼	07/13/11 13:31	07/23/11 22:03	50

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*Q*	*40 - 140*	*07/13/11 13:31*	*07/23/11 22:03*	*50*
Tetrachloro-m-xylene	*0*	*Q*	*40 - 140*	*07/13/11 13:31*	*07/23/11 22:03*	*50*
DCB Decachlorobiphenyl	*0*	*Q*	*60 - 125*	*07/13/11 13:31*	*07/23/11 22:03*	*50*
DCB Decachlorobiphenyl	*0*	*Q*	*60 - 125*	*07/13/11 13:31*	*07/23/11 22:03*	*50*

Method: 8330 (Modified) - Organic Compounds by UV/HPLC

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	0.039 U		0.24	0.020	mg/kg		07/15/11 12:00	07/27/11 19:04	0.98

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**0.037**	**J**	0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 05:25	0.99
1,3-Dinitrobenzene	0.099 U		0.25	0.050	mg/kg		07/15/11 12:00	07/28/11 05:25	0.99
2,4,6-Trinitrotoluene	**0.49**		0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 05:25	0.99
2,4-Dinitrotoluene	0.099 U		0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 05:25	0.99
2,6-Dinitrotoluene	0.099 U		0.25	0.030	mg/kg		07/15/11 12:00	07/28/11 05:25	0.99
2-Amino-4,6-dinitrotoluene	0.099 U		0.25	0.099	mg/kg		07/15/11 12:00	07/28/11 05:25	0.99
2-Nitrotoluene	0.099 U		0.25	0.079	mg/kg		07/15/11 12:00	07/28/11 05:25	0.99
3-Nitrotoluene	0.099 U		0.25	0.069	mg/kg		07/15/11 12:00	07/28/11 05:25	0.99
4-Amino-2,6-dinitrotoluene	**0.17**	**J**	0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 05:25	0.99
4-Nitrotoluene	0.099 U		0.25	0.079	mg/kg		07/15/11 12:00	07/28/11 05:25	0.99
HMX	**0.12**	**J**	0.25	0.030	mg/kg		07/15/11 12:00	07/28/11 05:25	0.99
Nitrobenzene	0.099 U		0.25	0.050	mg/kg		07/15/11 12:00	07/28/11 05:25	0.99
Nitroglycerin	0.25 U		0.50	0.13	mg/kg		07/15/11 12:00	07/28/11 05:25	0.99
PETN	0.25 U		0.50	0.16	mg/kg		07/15/11 12:00	07/28/11 05:25	0.99
RDX	**0.28**		0.25	0.040	mg/kg		07/15/11 12:00	07/28/11 05:25	0.99
Tetryl	0.099 U		0.25	0.050	mg/kg		07/15/11 12:00	07/28/11 05:25	0.99

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*92*		*78 - 108*	*07/15/11 12:00*	*07/28/11 05:25*	*0.99*

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6600**	**D**	76	19	mg/Kg	☼	07/15/11 12:40	08/29/11 15:14	10
Antimony	**0.086**	**J**	0.15	0.047	mg/Kg	☼	07/15/11 12:40	08/25/11 23:43	1
Arsenic	**6.0**		0.38	0.040	mg/Kg	☼	07/15/11 12:40	08/25/11 23:43	1

Client Sample ID: LL1SB-644M-0102-SO

Date Collected: 07/05/11 10:57
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-26

Matrix: Solid
Percent Solids: 98.2

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	60		0.38	0.099	mg/Kg	☼	07/15/11 12:40	08/25/11 23:43	1
Beryllium	0.53	J D	0.76	0.027	mg/Kg	☼	07/15/11 12:40	08/29/11 15:14	10
Cadmium	0.60	J D	1.5	0.024	mg/Kg	☼	07/15/11 12:40	08/29/11 15:14	10
Calcium	26000	D	1500	300	mg/Kg	☼	07/15/11 12:40	08/29/11 15:14	10
Chromium	28		0.38	0.12	mg/Kg	☼	07/15/11 12:40	08/25/11 23:43	1
Cobalt	3.7	D	0.76	0.034	mg/Kg	☼	07/15/11 12:40	08/29/11 15:14	10
Copper	12		0.30	0.084	mg/Kg	☼	07/15/11 12:40	08/25/11 23:43	1
Iron	14000		38	8.3	mg/Kg	☼	07/15/11 12:40	08/25/11 23:43	1
Lead	70		0.23	0.054	mg/Kg	☼	07/15/11 12:40	08/25/11 23:43	1
Magnesium	2700		76	6.8	mg/Kg	☼	07/15/11 12:40	08/25/11 23:43	1
Manganese	670	D	3.8	1.2	mg/Kg	☼	07/15/11 12:40	08/29/11 15:14	10
Nickel	17		0.38	0.066	mg/Kg	☼	07/15/11 12:40	08/25/11 23:43	1
Potassium	580		76	2.9	mg/Kg	☼	07/15/11 12:40	08/25/11 23:43	1
Selenium	0.71		0.38	0.016	mg/Kg	☼	07/15/11 12:40	08/25/11 23:43	1
Silver	0.38	U	0.76	0.12	mg/Kg	☼	07/15/11 12:40	08/29/11 15:14	10
Sodium	91		76	11	mg/Kg	☼	07/15/11 12:40	08/25/11 23:43	1
Thallium	0.067	J	0.15	0.043	mg/Kg	☼	07/15/11 12:40	08/25/11 23:43	1
Vanadium	8.6		0.38	0.033	mg/Kg	☼	07/15/11 12:40	08/25/11 23:43	1
Zinc	130	D	30	7.6	mg/Kg	☼	07/15/11 12:40	08/29/11 15:14	10

Method: 7471/DOD - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039	J	0.064	0.0090	mg/Kg	☼	07/15/11 15:30	07/18/11 17:21	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	0.81	U	0.81	0.27	mg/Kg	☼	07/18/11 14:13	07/20/11 16:33	1

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	2.5	J	5.1	0.79	mg/kg	☼	07/20/11 05:35	07/21/11 13:07	1

Client Sample ID: LL1SB-644V-0102-SO

Date Collected: 07/05/11 11:12
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-27

Matrix: Solid

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	13	U	320	27	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
1,1,2,2-Tetrachloroethane	32	U	320	11	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
1,1,2-Trichloroethane	32	U	320	15	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
1,1-Dichloroethane	32	U	320	22	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
1,1-Dichloroethene	32	U	320	23	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
1,2-Dichloroethane	32	U	320	13	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
1,2-Dichloroethene, Total	10	U	630	10	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
1,2-Dichloropropane	13	U	320	10	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
2-Butanone	130	U	1300	54	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
2-Hexanone	63	U	1300	25	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
4-Methyl-2-pentanone	130	U	1300	61	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
Acetone	250	U	1300	220	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
Benzene	32	U	320	15	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
Bromoform	32	U	320	24	ug/Kg		07/12/11 14:55	07/12/11 19:08	1

Client Sample ID: LL1SB-644V-0102-SO

Date Collected: 07/05/11 11:12
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-27

Matrix: Solid

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	63	U	320	37	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
Carbon disulfide	32	U	320	15	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
Carbon tetrachloride	13	U	320	8.1	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
Chlorobenzene	13	U	320	8.1	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
Chloromethane	32	U	320	18	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
cis-1,2-Dichloroethene	13	U	320	8.7	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
cis-1,3-Dichloropropene	13	U	320	10	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
Dibromochloromethane	32	U	320	15	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
Bromodichloromethane	32	U	320	13	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
Ethylbenzene	13	U	320	6.8	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
Methylene Chloride	**160**	**J**	320	97	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
Styrene	13	U	320	7.1	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
Tetrachloroethene	32	U	320	15	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
Toluene	32	U	320	22	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
trans-1,2-Dichloroethene	32	U	320	12	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
trans-1,3-Dichloropropene	32	U	320	25	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
Trichloroethene	32	U	320	12	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
Vinyl chloride	32	U	320	23	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
Xylenes (total)	38	U	630	10	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
Chloroform	32	U	320	11	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
Bromochloromethane	32	U	320	16	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
1,2-Dibromoethane	32	U	320	13	ug/Kg		07/12/11 14:55	07/12/11 19:08	1
Chloroethane	130	U	320	77	ug/Kg		07/12/11 14:55	07/12/11 19:08	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*82*	*Q*	*85 - 115*	*07/12/11 14:55*	*07/12/11 19:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*61 - 130*	*07/12/11 14:55*	*07/12/11 19:08*	*1*
4-Bromofluorobenzene (Surr)	*79*	*Q*	*85 - 120*	*07/12/11 14:55*	*07/12/11 19:08*	*1*
Dibromofluoromethane (Surr)	*74*		*59 - 138*	*07/12/11 14:55*	*07/12/11 19:08*	*1*

Client Sample ID: LL1SB-644M-0103-SO

Date Collected: 07/05/11 11:07
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-28

Matrix: Solid
Percent Solids: 99.6

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Benzo[a]anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Benzoic acid	330	U	660	330	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Benzo[b]fluoranthene	**10**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Benzo[k]fluoranthene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Benzyl alcohol	27	U	330	21	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Bis(2-chloroethoxy)methane	27	U	100	22	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Bis(2-chloroethyl)ether	3.3	U	100	2.0	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
4-Bromophenyl phenyl ether	27	U	50	13	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Butyl benzyl phthalate	27	U	50	10	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
2,4-Dimethylphenol	80	U	150	20	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Dimethyl phthalate	27	U	50	17	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1

Client Sample ID: LL1SB-644M-0103-SO
Date Collected: 07/05/11 11:07
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-28
Matrix: Solid
Percent Solids: 99.6

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	80	U	150	80	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
2,4-Dinitrophenol	80	U	330	80	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
2,4-Dinitrotoluene	27	U	200	27	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
2,6-Dinitrotoluene	27	U	200	21	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Fluoranthene	**18**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Fluorene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Hexachlorobenzene	3.3	U	6.7	2.1	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Hexachlorobutadiene	27	U Q	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Hexachlorocyclopentadiene	27	U	330	27	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Hexachloroethane	27	U	50	9.0	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
N-Nitrosodiphenylamine	27	U	50	21	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
N-Nitrosodi-n-propylamine	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
1,4-Dichlorobenzene	27	U	50	20	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
2-Chloronaphthalene	3.3	U	50	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
2-Chlorophenol	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
4-Chlorophenyl phenyl ether	27	U	50	13	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Chrysene	3.3	U	6.7	1.1	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Dibenzofuran	3.3	U	50	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Benzo[g,h,i]perylene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Benzo[a]pyrene	**7.1**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Di-n-butyl phthalate	**19**	**J**	50	15	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
1,2-Dichlorobenzene	27	U Q	50	9.7	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
1,3-Dichlorobenzene	27	U Q	50	11	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
3,3'-Dichlorobenzidine	80	U	100	18	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
2,4-Dichlorophenol	27	U	150	20	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Diethyl phthalate	**25**	**J**	50	16	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Indeno[1,2,3-cd]pyrene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Isophorone	**15**	**J**	50	13	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
2-Methylnaphthalene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
2-Methylphenol	80	U	200	80	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
2-Nitroaniline	27	U	200	9.1	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
3-Nitroaniline	80	U	200	16	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
4-Nitroaniline	27	U	200	26	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Nitrobenzene	3.3	U	100	2.2	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
2-Nitrophenol	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
4-Nitrophenol	80	U	330	80	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Pyrene	**13**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Pentachlorophenol	80	U	150	80	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Phenanthrene	**16**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
1,2,4-Trichlorobenzene	27	U Q	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
2,4,5-Trichlorophenol	27	U Q	150	25	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
2,4,6-Trichlorophenol	80	U Q	150	80	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Phenol	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Carbazole	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
4-Chloroaniline	27	U	150	17	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
3 & 4 Methylphenol	80	U	400	20	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Bis(2-ethylhexyl) phthalate	**390**		50	19	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
Di-n-octyl phthalate	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1

Client Sample ID: LL1SB-644M-0103-SO
Date Collected: 07/05/11 11:07
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-28
Matrix: Solid
Percent Solids: 99.6

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	27	U	150	21	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1
bis (2-Chloroisopropyl) ether	27	U	100	9.5	ug/Kg	☼	07/13/11 11:10	08/01/11 16:41	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*47*		*45 - 105*	*07/13/11 11:10*	*08/01/11 16:41*	*1*
2-Fluorophenol (Surr)	*58*		*35 - 105*	*07/13/11 11:10*	*08/01/11 16:41*	*1*
Nitrobenzene-d5 (Surr)	*46*		*35 - 100*	*07/13/11 11:10*	*08/01/11 16:41*	*1*
Terphenyl-d14 (Surr)	*66*		*30 - 125*	*07/13/11 11:10*	*08/01/11 16:41*	*1*
2,4,6-Tribromophenol (Surr)	*42*		*35 - 125*	*07/13/11 11:10*	*08/01/11 16:41*	*1*
Phenol-d5 (Surr)	*59*		*40 - 100*	*07/13/11 11:10*	*08/01/11 16:41*	*1*

Method: 8081/DOD - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	3.4	U	10	3.1	ug/Kg	☼	07/13/11 12:29	08/04/11 22:07	5
4,4'-DDE	**65**	**D**	8.5	2.0	ug/Kg	☼	07/13/11 12:29	08/04/11 22:07	5
4,4'-DDT	3.4	U	10	3.2	ug/Kg	☼	07/13/11 12:29	08/04/11 22:07	5
Aldrin	6.7	U	20	6.0	ug/Kg	☼	07/13/11 12:29	08/04/11 22:07	5
alpha-BHC	6.7	U Q	13	3.7	ug/Kg	☼	07/13/11 12:29	08/04/11 22:07	5
alpha-Chlordane	6.7	U	15	4.7	ug/Kg	☼	07/13/11 12:29	08/04/11 22:07	5
beta-BHC	6.7	U J Q	18	5.5	ug/Kg	☼	07/13/11 12:29	08/04/11 22:07	5
delta-BHC	6.7	U	20	6.0	ug/Kg	☼	07/13/11 12:29	08/04/11 22:07	5
Dieldrin	3.4	U	8.5	2.4	ug/Kg	☼	07/13/11 12:29	08/04/11 22:07	5
Endosulfan I	3.4	U	8.5	2.6	ug/Kg	☼	07/13/11 12:29	08/04/11 22:07	5
Endosulfan II	6.7	U	13	4.1	ug/Kg	☼	07/13/11 12:29	08/04/11 22:07	5
Endosulfan sulfate	6.7	U	15	4.4	ug/Kg	☼	07/13/11 12:29	08/04/11 22:07	5
Endrin	**7.7**	**J D**	8.5	2.5	ug/Kg	☼	07/13/11 12:29	08/04/11 22:07	5
Endrin aldehyde	**40**	**D**	15	5.0	ug/Kg	☼	07/13/11 12:29	08/04/11 22:07	5
Endrin ketone	3.4	U	10	3.2	ug/Kg	☼	07/13/11 12:29	08/04/11 22:07	5
gamma-BHC (Lindane)	6.7	U Q	13	3.7	ug/Kg	☼	07/13/11 12:29	08/04/11 22:07	5
gamma-Chlordane	**300**	**D Q**	8.5	2.1	ug/Kg	☼	07/13/11 12:29	08/04/11 22:07	5
Heptachlor	6.7	U	18	5.5	ug/Kg	☼	07/13/11 12:29	08/04/11 22:07	5
Heptachlor epoxide	6.7	U	13	4.0	ug/Kg	☼	07/13/11 12:29	08/04/11 22:07	5
Methoxychlor	**12**	**J D**	25	7.5	ug/Kg	☼	07/13/11 12:29	08/04/11 22:07	5
Toxaphene	100	U M	340	95	ug/Kg	☼	07/13/11 12:29	08/04/11 22:07	5

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*123*		*55 - 130*	*07/13/11 12:29*	*08/04/11 22:07*	*5*
DCB Decachlorobiphenyl	*97*		*55 - 130*	*07/13/11 12:29*	*08/04/11 22:07*	*5*
Tetrachloro-m-xylene	*122*		*70 - 125*	*07/13/11 12:29*	*08/04/11 22:07*	*5*
Tetrachloro-m-xylene	*127*	*Q*	*70 - 125*	*07/13/11 12:29*	*08/04/11 22:07*	*5*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	250	U	650	210	ug/Kg	☼	07/13/11 13:31	07/23/11 22:17	10
Aroclor 1221	250	U	500	160	ug/Kg	☼	07/13/11 13:31	07/23/11 22:17	10
Aroclor 1232	250	U	450	140	ug/Kg	☼	07/13/11 13:31	07/23/11 22:17	10
Aroclor 1242	250	U	400	130	ug/Kg	☼	07/13/11 13:31	07/23/11 22:17	10
Aroclor 1248	250	U	550	170	ug/Kg	☼	07/13/11 13:31	07/23/11 22:17	10
Aroclor 1254	**1800**	**D**	550	170	ug/Kg	☼	07/13/11 13:31	07/23/11 22:17	10
Aroclor 1260	250	U	550	170	ug/Kg	☼	07/13/11 13:31	07/23/11 22:17	10

Client Sample ID: LL1SB-644M-0103-SO
Date Collected: 07/05/11 11:07
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-28
Matrix: Solid
Percent Solids: 99.6

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*Q*	*40 - 140*	*07/13/11 13:31*	*07/23/11 22:17*	*10*
Tetrachloro-m-xylene	*0*	*Q*	*40 - 140*	*07/13/11 13:31*	*07/23/11 22:17*	*10*
DCB Decachlorobiphenyl	*0*	*Q*	*60 - 125*	*07/13/11 13:31*	*07/23/11 22:17*	*10*
DCB Decachlorobiphenyl	*0*	*Q*	*60 - 125*	*07/13/11 13:31*	*07/23/11 22:17*	*10*

Method: 8330 (Modified) - Organic Compounds by UV/HPLC

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	0.040 U		0.25	0.020	mg/kg		07/15/11 12:00	07/27/11 19:19	1

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**0.076**	**J**	0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 06:05	1
1,3-Dinitrobenzene	0.10 U		0.25	0.050	mg/kg		07/15/11 12:00	07/28/11 06:05	1
2,4,6-Trinitrotoluene	**3.1**		0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 06:05	1
2,4-Dinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 06:05	1
2,6-Dinitrotoluene	0.10 U		0.25	0.030	mg/kg		07/15/11 12:00	07/28/11 06:05	1
2-Amino-4,6-dinitrotoluene	0.10 U		0.25	0.10	mg/kg		07/15/11 12:00	07/28/11 06:05	1
2-Nitrotoluene	0.10 U		0.25	0.080	mg/kg		07/15/11 12:00	07/28/11 06:05	1
3-Nitrotoluene	0.10 U		0.25	0.070	mg/kg		07/15/11 12:00	07/28/11 06:05	1
4-Amino-2,6-dinitrotoluene	**0.28**		0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 06:05	1
4-Nitrotoluene	0.10 U		0.25	0.080	mg/kg		07/15/11 12:00	07/28/11 06:05	1
HMX	**0.11**	**J**	0.25	0.030	mg/kg		07/15/11 12:00	07/28/11 06:05	1
Nitrobenzene	0.10 U		0.25	0.050	mg/kg		07/15/11 12:00	07/28/11 06:05	1
Nitroglycerin	0.25 U		0.50	0.13	mg/kg		07/15/11 12:00	07/28/11 06:05	1
PETN	0.25 U		0.50	0.16	mg/kg		07/15/11 12:00	07/28/11 06:05	1
RDX	**0.33**		0.25	0.040	mg/kg		07/15/11 12:00	07/28/11 06:05	1
Tetryl	0.10 U		0.25	0.050	mg/kg		07/15/11 12:00	07/28/11 06:05	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*91*		*78 - 108*	*07/15/11 12:00*	*07/28/11 06:05*	*1*

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2000**	**D**	49	12	mg/Kg	☼	07/15/11 12:40	08/29/11 15:09	5
Antimony	0.15	U	0.19	0.060	mg/Kg	☼	07/15/11 12:40	08/25/11 23:38	1
Arsenic	**3.7**		0.49	0.051	mg/Kg	☼	07/15/11 12:40	08/25/11 23:38	1
Barium	**17**		0.49	0.13	mg/Kg	☼	07/15/11 12:40	08/25/11 23:38	1
Beryllium	**0.15**	**J D**	0.49	0.017	mg/Kg	☼	07/15/11 12:40	08/29/11 15:09	5
Cadmium	**0.15**	**J D**	0.97	0.015	mg/Kg	☼	07/15/11 12:40	08/29/11 15:09	5
Calcium	**3200**		190	39	mg/Kg	☼	07/15/11 12:40	08/25/11 23:38	1
Chromium	**12**		0.49	0.16	mg/Kg	☼	07/15/11 12:40	08/25/11 23:38	1
Cobalt	**6.7**	**D**	0.49	0.022	mg/Kg	☼	07/15/11 12:40	08/29/11 15:09	5
Copper	**4.0**		0.39	0.11	mg/Kg	☼	07/15/11 12:40	08/25/11 23:38	1
Iron	**9200**		49	11	mg/Kg	☼	07/15/11 12:40	08/25/11 23:38	1
Lead	**7.7**		0.29	0.069	mg/Kg	☼	07/15/11 12:40	08/25/11 23:38	1
Magnesium	**580**		97	8.7	mg/Kg	☼	07/15/11 12:40	08/25/11 23:38	1
Manganese	**530**	**D**	2.4	0.78	mg/Kg	☼	07/15/11 12:40	08/29/11 15:09	5
Nickel	**9.4**		0.49	0.084	mg/Kg	☼	07/15/11 12:40	08/25/11 23:38	1
Potassium	**450**		97	3.7	mg/Kg	☼	07/15/11 12:40	08/25/11 23:38	1
Selenium	**0.34**	**J**	0.49	0.020	mg/Kg	☼	07/15/11 12:40	08/25/11 23:38	1
Silver	0.24	U	0.49	0.078	mg/Kg	☼	07/15/11 12:40	08/29/11 15:09	5
Sodium	**26**	**J**	97	14	mg/Kg	☼	07/15/11 12:40	08/25/11 23:38	1

Client Sample ID: LL1SB-644M-0103-SO

Date Collected: 07/05/11 11:07
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-28

Matrix: Solid
Percent Solids: 99.6

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.11	J	0.19	0.055	mg/Kg	☼	07/15/11 12:40	08/25/11 23:38	1
Vanadium	4.8		0.49	0.042	mg/Kg	☼	07/15/11 12:40	08/25/11 23:38	1
Zinc	62	D	19	4.9	mg/Kg	☼	07/15/11 12:40	08/29/11 15:09	5

Method: 7471/DOD - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	U	0.063	0.0088	mg/Kg	☼	07/15/11 15:30	07/18/11 17:20	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	0.80	U	0.80	0.27	mg/Kg	☼	07/18/11 14:13	07/20/11 16:35	1

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	2.2	J	5.0	0.78	mg/kg	☼	07/20/11 05:35	07/21/11 13:09	1

Client Sample ID: LL1SB-644V-0103-SO

Date Collected: 07/05/11 11:13
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-29

Matrix: Solid

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	15	U	380	32	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
1,1,2,2-Tetrachloroethane	38	U	380	14	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
1,1,2-Trichloroethane	38	U	380	18	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
1,1-Dichloroethane	38	U	380	26	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
1,1-Dichloroethene	38	U	380	28	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
1,2-Dichloroethane	38	U	380	15	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
1,2-Dichloroethene, Total	13	U	770	13	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
1,2-Dichloropropane	15	U	380	13	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
2-Butanone	150	U	1500	66	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
2-Hexanone	77	U	1500	31	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
4-Methyl-2-pentanone	150	U	1500	74	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
Acetone	310	U	1500	260	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
Benzene	38	U	380	18	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
Bromoform	38	U	380	29	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
Bromomethane	77	U	380	44	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
Carbon disulfide	38	U	380	18	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
Carbon tetrachloride	15	U	380	9.8	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
Chlorobenzene	15	U	380	9.8	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
Chloromethane	38	U	380	21	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
cis-1,2-Dichloroethene	15	U	380	11	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
cis-1,3-Dichloropropene	15	U	380	12	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
Dibromochloromethane	38	U	380	18	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
Bromodichloromethane	38	U	380	15	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
Ethylbenzene	15	U	380	8.3	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
Methylene Chloride	140	J	380	120	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
Styrene	15	U	380	8.6	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
Tetrachloroethene	38	U	380	18	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
Toluene	38	U	380	26	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
trans-1,2-Dichloroethene	38	U	380	14	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
trans-1,3-Dichloropropene	38	U	380	31	ug/Kg		07/12/11 14:55	07/12/11 19:29	1

Client Sample ID: LL1SB-644V-0103-SO

Date Collected: 07/05/11 11:13
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-29

Matrix: Solid

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	38	U	380	15	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
Vinyl chloride	38	U	380	28	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
Xylenes (total)	46	U	770	12	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
Chloroform	38	U	380	13	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
Bromochloromethane	38	U	380	20	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
1,2-Dibromoethane	38	U	380	15	ug/Kg		07/12/11 14:55	07/12/11 19:29	1
Chloroethane	150	U	380	94	ug/Kg		07/12/11 14:55	07/12/11 19:29	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*80*	*Q*	*85 - 115*	*07/12/11 14:55*	*07/12/11 19:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*61 - 130*	*07/12/11 14:55*	*07/12/11 19:29*	*1*
4-Bromofluorobenzene (Surr)	*79*	*Q*	*85 - 120*	*07/12/11 14:55*	*07/12/11 19:29*	*1*
Dibromofluoromethane (Surr)	*72*		*59 - 138*	*07/12/11 14:55*	*07/12/11 19:29*	*1*

Client Sample ID: LL1SB-645M-0101-SO

Date Collected: 07/05/11 11:06
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-30

Matrix: Solid
Percent Solids: 99.0

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Benzo[a]anthracene	**19**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Benzoic acid	340	U	670	340	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Benzo[b]fluoranthene	**28**	**M**	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Benzo[k]fluoranthene	**14**	**M**	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Benzyl alcohol	27	U	330	21	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Bis(2-chloroethoxy)methane	27	U	100	22	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Bis(2-chloroethyl)ether	3.3	U	100	2.0	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
4-Bromophenyl phenyl ether	27	U	50	13	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Butyl benzyl phthalate	27	U	50	10	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
2,4-Dimethylphenol	81	U	150	20	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Dimethyl phthalate	27	U	50	17	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
4,6-Dinitro-2-methylphenol	81	U	150	81	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
2,4-Dinitrophenol	81	U	330	81	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
2,4-Dinitrotoluene	27	U	200	27	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
2,6-Dinitrotoluene	27	U	200	21	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Fluoranthene	**47**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Fluorene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Hexachlorobenzene	3.3	U	6.7	2.1	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Hexachlorobutadiene	27	U Q	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Hexachlorocyclopentadiene	27	U	330	27	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Hexachloroethane	27	U	50	9.1	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
N-Nitrosodiphenylamine	27	U	50	21	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
N-Nitrosodi-n-propylamine	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
1,4-Dichlorobenzene	27	U	50	20	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
2-Chloronaphthalene	3.3	U	50	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
2-Chlorophenol	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
4-Chlorophenyl phenyl ether	27	U	50	13	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1

Client Sample ID: LL1SB-645M-0101-SO
Date Collected: 07/05/11 11:06
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-30
Matrix: Solid
Percent Solids: 99.0

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**24**		6.7	1.1	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Dibenzofuran	3.3	U	50	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Benzo[g,h,i]perylene	**23**	**M**	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Benzo[a]pyrene	**19**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Di-n-butyl phthalate	**35**	**J**	50	15	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
1,2-Dichlorobenzene	27	U Q	50	9.8	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
1,3-Dichlorobenzene	27	U Q	50	11	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
3,3'-Dichlorobenzidine	81	U	100	18	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
2,4-Dichlorophenol	27	U	150	20	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Diethyl phthalate	27	U	50	16	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Indeno[1,2,3-cd]pyrene	**13**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Isophorone	**55**		50	13	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
2-Methylnaphthalene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
2-Methylphenol	81	U	200	81	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
2-Nitroaniline	27	U	200	9.2	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
3-Nitroaniline	81	U	200	16	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
4-Nitroaniline	27	U	200	26	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Nitrobenzene	3.3	U	100	2.2	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
2-Nitrophenol	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
4-Nitrophenol	81	U	330	81	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Pyrene	**35**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Pentachlorophenol	81	U	150	81	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Phenanthrene	**27**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
1,2,4-Trichlorobenzene	27	U Q	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
2,4,5-Trichlorophenol	27	U Q	150	25	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
2,4,6-Trichlorophenol	81	U Q	150	81	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Phenol	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Carbazole	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
4-Chloroaniline	27	U	150	17	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
3 & 4 Methylphenol	81	U	400	20	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Bis(2-ethylhexyl) phthalate	**160**		50	19	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
Di-n-octyl phthalate	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
4-Chloro-3-methylphenol	27	U	150	21	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1
bis (2-Chloroisopropyl) ether	27	U	100	9.6	ug/Kg	☼	07/13/11 11:10	08/01/11 17:00	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*50*		*45 - 105*	*07/13/11 11:10*	*08/01/11 17:00*	*1*
2-Fluorophenol (Surr)	*58*		*35 - 105*	*07/13/11 11:10*	*08/01/11 17:00*	*1*
Nitrobenzene-d5 (Surr)	*49*		*35 - 100*	*07/13/11 11:10*	*08/01/11 17:00*	*1*
Terphenyl-d14 (Surr)	*68*		*30 - 125*	*07/13/11 11:10*	*08/01/11 17:00*	*1*
2,4,6-Tribromophenol (Surr)	*47*		*35 - 125*	*07/13/11 11:10*	*08/01/11 17:00*	*1*
Phenol-d5 (Surr)	*59*		*40 - 100*	*07/13/11 11:10*	*08/01/11 17:00*	*1*

Method: 8081/DOD - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	3.4	U	10	3.1	ug/Kg	☼	07/13/11 12:29	07/31/11 04:40	5
4,4'-DDE	**110**	**D**	8.6	2.0	ug/Kg	☼	07/13/11 12:29	07/31/11 04:40	5
4,4'-DDT	3.4	U	10	3.2	ug/Kg	☼	07/13/11 12:29	07/31/11 04:40	5
Aldrin	6.7	U	20	6.1	ug/Kg	☼	07/13/11 12:29	07/31/11 04:40	5

Client Sample ID: LL1SB-645M-0101-SO
Date Collected: 07/05/11 11:06
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-30
Matrix: Solid
Percent Solids: 99.0

Method: 8081/DOD - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	6.7	U Q	13	3.7	ug/Kg	☼	07/13/11 12:29	07/31/11 04:40	5
alpha-Chlordane	6.7	U	15	4.8	ug/Kg	☼	07/13/11 12:29	07/31/11 04:40	5
beta-BHC	6.7	U Q	18	5.6	ug/Kg	☼	07/13/11 12:29	07/31/11 04:40	5
delta-BHC	6.7	U	20	6.1	ug/Kg	☼	07/13/11 12:29	07/31/11 04:40	5
Dieldrin	3.4	U	8.6	2.4	ug/Kg	☼	07/13/11 12:29	07/31/11 04:40	5
Endosulfan I	3.4	U	8.6	2.6	ug/Kg	☼	07/13/11 12:29	07/31/11 04:40	5
Endosulfan II	6.7	U	13	4.1	ug/Kg	☼	07/13/11 12:29	07/31/11 04:40	5
Endosulfan sulfate	6.7	U	15	4.4	ug/Kg	☼	07/13/11 12:29	07/31/11 04:40	5
Endrin	3.4	U	8.6	2.5	ug/Kg	☼	07/13/11 12:29	07/31/11 04:40	5
Endrin aldehyde	**34**	**D**	15	5.1	ug/Kg	☼	07/13/11 12:29	07/31/11 04:40	5
Endrin ketone	3.4	U	10	3.2	ug/Kg	☼	07/13/11 12:29	07/31/11 04:40	5
gamma-BHC (Lindane)	6.7	U Q	13	3.7	ug/Kg	☼	07/13/11 12:29	07/31/11 04:40	5
gamma-Chlordane	3.4	U M Q	8.6	2.1	ug/Kg	☼	07/13/11 12:29	07/31/11 04:40	5
Heptachlor	6.7	U	18	5.6	ug/Kg	☼	07/13/11 12:29	07/31/11 04:40	5
Heptachlor epoxide	6.7	U M	13	4.0	ug/Kg	☼	07/13/11 12:29	07/31/11 04:40	5
Methoxychlor	17	U	25	7.6	ug/Kg	☼	07/13/11 12:29	07/31/11 04:40	5
Toxaphene	100	U M	340	96	ug/Kg	☼	07/13/11 12:29	07/31/11 04:40	5

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*134*	*Q*	*55 - 130*	*07/13/11 12:29*	*07/31/11 04:40*	*5*
DCB Decachlorobiphenyl	*129*		*55 - 130*	*07/13/11 12:29*	*07/31/11 04:40*	*5*
Tetrachloro-m-xylene	*395*	*Q*	*70 - 125*	*07/13/11 12:29*	*07/31/11 04:40*	*5*
Tetrachloro-m-xylene	*136*	*Q*	*70 - 125*	*07/13/11 12:29*	*07/31/11 04:40*	*5*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	130	U	330	110	ug/Kg	☼	07/13/11 13:31	07/23/11 22:32	5
Aroclor 1221	130	U	250	81	ug/Kg	☼	07/13/11 13:31	07/23/11 22:32	5
Aroclor 1232	130	U	230	71	ug/Kg	☼	07/13/11 13:31	07/23/11 22:32	5
Aroclor 1242	130	U	200	66	ug/Kg	☼	07/13/11 13:31	07/23/11 22:32	5
Aroclor 1248	130	U	280	86	ug/Kg	☼	07/13/11 13:31	07/23/11 22:32	5
Aroclor 1254	**1400**	**D**	280	86	ug/Kg	☼	07/13/11 13:31	07/23/11 22:32	5
Aroclor 1260	130	U	280	86	ug/Kg	☼	07/13/11 13:31	07/23/11 22:32	5

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*40 - 140*	*07/13/11 13:31*	*07/23/11 22:32*	*5*
Tetrachloro-m-xylene	*91*		*40 - 140*	*07/13/11 13:31*	*07/23/11 22:32*	*5*
DCB Decachlorobiphenyl	*107*		*60 - 125*	*07/13/11 13:31*	*07/23/11 22:32*	*5*
DCB Decachlorobiphenyl	*108*		*60 - 125*	*07/13/11 13:31*	*07/23/11 22:32*	*5*

Method: 8330 (Modified) - Organic Compounds by UV/HPLC

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	0.040 U		0.25	0.020	mg/kg		07/15/11 12:00	07/27/11 19:33	1

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**0.091**	**J**	0.24	0.019	mg/kg		07/15/11 12:00	07/28/11 06:45	0.96
1,3-Dinitrobenzene	0.096 U		0.24	0.048	mg/kg		07/15/11 12:00	07/28/11 06:45	0.96
2,4,6-Trinitrotoluene	**5.7**		0.24	0.019	mg/kg		07/15/11 12:00	07/28/11 06:45	0.96
2,4-Dinitrotoluene	**0.028**	**J**	0.24	0.019	mg/kg		07/15/11 12:00	07/28/11 06:45	0.96
2,6-Dinitrotoluene	0.096 U		0.24	0.029	mg/kg		07/15/11 12:00	07/28/11 06:45	0.96

Client Sample ID: LL1SB-645M-0101-SO
Date Collected: 07/05/11 11:06
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-30
Matrix: Solid

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A) (Continued)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Amino-4,6-dinitrotoluene	0.15	J	0.24	0.096	mg/kg		07/15/11 12:00	07/28/11 06:45	0.96
2-Nitrotoluene	0.096 U		0.24	0.077	mg/kg		07/15/11 12:00	07/28/11 06:45	0.96
3-Nitrotoluene	0.096 U		0.24	0.067	mg/kg		07/15/11 12:00	07/28/11 06:45	0.96
4-Amino-2,6-dinitrotoluene	0.38		0.24	0.019	mg/kg		07/15/11 12:00	07/28/11 06:45	0.96
4-Nitrotoluene	0.096 U		0.24	0.077	mg/kg		07/15/11 12:00	07/28/11 06:45	0.96
HMX	0.72		0.24	0.029	mg/kg		07/15/11 12:00	07/28/11 06:45	0.96
Nitrobenzene	0.096 U		0.24	0.048	mg/kg		07/15/11 12:00	07/28/11 06:45	0.96
Nitroglycerin	0.24 U		0.48	0.12	mg/kg		07/15/11 12:00	07/28/11 06:45	0.96
PETN	0.24 U		0.48	0.15	mg/kg		07/15/11 12:00	07/28/11 06:45	0.96
RDX	4.7		0.24	0.038	mg/kg		07/15/11 12:00	07/28/11 06:45	0.96
Tetryl	0.096 U		0.24	0.048	mg/kg		07/15/11 12:00	07/28/11 06:45	0.96

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*94*		*78 - 108*	*07/15/11 12:00*	*07/28/11 06:45*	*0.96*

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4300		10	2.5	mg/Kg	☼	07/19/11 10:57	08/29/11 17:16	1
Antimony	0.084	J	0.20	0.063	mg/Kg	☼	07/19/11 10:57	08/29/11 17:16	1
Arsenic	5.8		0.50	0.053	mg/Kg	☼	07/19/11 10:57	08/29/11 17:16	1
Barium	39	B	0.50	0.13	mg/Kg	☼	07/19/11 10:57	08/29/11 17:16	1
Beryllium	0.35		0.10	0.0035	mg/Kg	☼	07/19/11 10:57	08/29/11 17:16	1
Cadmium	3.8		0.20	0.0031	mg/Kg	☼	07/19/11 10:57	08/29/11 17:16	1
Calcium	9000	J	200	40	mg/Kg	☼	07/19/11 10:57	08/29/11 17:16	1
Chromium	29	J	0.50	0.16	mg/Kg	☼	07/19/11 10:57	08/29/11 17:16	1
Cobalt	5.4		0.10	0.0045	mg/Kg	☼	07/19/11 10:57	08/29/11 17:16	1
Copper	22		0.40	0.11	mg/Kg	☼	07/19/11 10:57	08/29/11 17:16	1
Iron	19000	J	50	11	mg/Kg	☼	07/19/11 10:57	08/29/11 17:16	1
Lead	53	D J	1.5	0.36	mg/Kg	☼	07/19/11 10:57	08/29/11 17:32	5
Magnesium	1700		100	9.0	mg/Kg	☼	07/19/11 10:57	08/29/11 17:16	1
Manganese	600	D J	2.5	0.81	mg/Kg	☼	07/19/11 10:57	08/29/11 17:32	5
Nickel	20		0.50	0.087	mg/Kg	☼	07/19/11 10:57	08/29/11 17:16	1
Potassium	590		100	3.8	mg/Kg	☼	07/19/11 10:57	08/29/11 17:16	1
Selenium	0.44	J	0.50	0.021	mg/Kg	☼	07/19/11 10:57	08/29/11 17:16	1
Silver	0.018	J	0.10	0.016	mg/Kg	☼	07/19/11 10:57	08/29/11 17:16	1
Sodium	60	J	100	14	mg/Kg	☼	07/19/11 10:57	08/29/11 17:16	1
Thallium	0.12	J	0.20	0.057	mg/Kg	☼	07/19/11 10:57	08/29/11 17:16	1
Vanadium	8.1		0.50	0.044	mg/Kg	☼	07/19/11 10:57	08/29/11 17:16	1
Zinc	100	B J	4.0	1.0	mg/Kg	☼	07/19/11 10:57	08/29/11 17:16	1

Method: 7471/DOD - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	J	0.098	0.014	mg/Kg	☼	07/19/11 14:45	07/22/11 18:23	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	0.81	U	0.81	0.27	mg/Kg	☼	07/18/11 14:13	07/20/11 16:35	1

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	3.5	J	5.0	0.79	mg/kg	☼	07/20/11 05:35	07/21/11 13:11	1

Client Sample ID: LL1SB-645V-0101-SO
Date Collected: 07/05/11 11:10
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-31
Matrix: Solid

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.9	U	150	12	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
1,1,2,2-Tetrachloroethane	15	U	150	5.3	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
1,1,2-Trichloroethane	15	U	150	7.1	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
1,1-Dichloroethane	15	U	150	10	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
1,1-Dichloroethene	15	U	150	11	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
1,2-Dichloroethane	15	U	150	5.9	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
1,2-Dichloroethene, Total	4.9	U	300	4.9	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
1,2-Dichloropropane	5.9	U	150	4.9	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
2-Butanone	59	U	590	25	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
2-Hexanone	30	U	590	12	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
4-Methyl-2-pentanone	59	U	590	28	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
Acetone	120	U	590	100	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
Benzene	15	U	150	7.1	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
Bromoform	15	U	150	11	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
Bromomethane	30	U	150	17	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
Carbon disulfide	15	U	150	7.1	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
Carbon tetrachloride	5.9	U	150	3.8	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
Chlorobenzene	5.9	U	150	3.8	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
Chloromethane	15	U	150	8.3	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
cis-1,2-Dichloroethene	5.9	U	150	4.1	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
cis-1,3-Dichloropropene	5.9	U	150	4.7	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
Dibromochloromethane	15	U	150	7.1	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
Bromodichloromethane	15	U	150	5.9	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
Ethylbenzene	5.9	U	150	3.2	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
Methylene Chloride	**74**	**J**	150	46	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
Styrene	5.9	U	150	3.3	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
Tetrachloroethene	15	U	150	7.1	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
Toluene	15	U	150	10	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
trans-1,2-Dichloroethene	15	U	150	5.4	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
trans-1,3-Dichloropropene	15	U	150	12	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
Trichloroethene	15	U	150	5.7	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
Vinyl chloride	15	U	150	11	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
Xylenes (total)	18	U	300	4.8	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
Chloroform	15	U	150	5.2	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
Bromochloromethane	15	U	150	7.7	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
1,2-Dibromoethane	15	U	150	5.9	ug/Kg		07/12/11 14:55	07/12/11 19:50	1
Chloroethane	59	U	150	36	ug/Kg		07/12/11 14:55	07/12/11 19:50	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*75*	*Q*	*85 - 115*	*07/12/11 14:55*	*07/12/11 19:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*61 - 130*	*07/12/11 14:55*	*07/12/11 19:50*	*1*
4-Bromofluorobenzene (Surr)	*74*	*Q*	*85 - 120*	*07/12/11 14:55*	*07/12/11 19:50*	*1*
Dibromofluoromethane (Surr)	*69*		*59 - 138*	*07/12/11 14:55*	*07/12/11 19:50*	*1*

Client Sample ID: LL1SB-645M-0102-SO
Date Collected: 07/05/11 11:07
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-32
Matrix: Solid
Percent Solids: 98.5

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**18**		6.8	3.3	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Acenaphthylene	3.3	U	6.8	3.3	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Anthracene	**58**		6.8	3.3	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Benzo[a]anthracene	**120**		6.8	3.3	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Benzoic acid	340	U	670	340	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Benzo[b]fluoranthene	**130**	**M**	6.8	3.3	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Benzo[k]fluoranthene	**62**	**M**	6.8	3.3	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Benzyl alcohol	27	U	330	21	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Bis(2-chloroethoxy)methane	27	U	100	22	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Bis(2-chloroethyl)ether	3.3	U	100	2.0	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
4-Bromophenyl phenyl ether	27	U	51	13	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Butyl benzyl phthalate	27	U	51	10	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
2,4-Dimethylphenol	81	U	150	20	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Dimethyl phthalate	27	U	51	17	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
4,6-Dinitro-2-methylphenol	81	U	150	81	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
2,4-Dinitrophenol	81	U	330	81	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
2,4-Dinitrotoluene	27	U	200	27	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
2,6-Dinitrotoluene	27	U	200	21	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Fluoranthene	**300**		6.8	3.3	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Fluorene	**23**		6.8	3.3	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Hexachlorobenzene	3.3	U	6.8	2.1	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Hexachlorobutadiene	27	U Q	51	27	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Hexachlorocyclopentadiene	27	U	330	27	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Hexachloroethane	27	U	51	9.1	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
N-Nitrosodiphenylamine	27	U	51	21	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
N-Nitrosodi-n-propylamine	27	U	51	27	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
1,4-Dichlorobenzene	27	U	51	20	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
2-Chloronaphthalene	3.3	U	51	3.3	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
2-Chlorophenol	27	U	51	27	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
4-Chlorophenyl phenyl ether	27	U	51	13	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Chrysene	**120**		6.8	1.1	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Dibenz(a,h)anthracene	**14**		6.8	3.3	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Dibenzofuran	**16**	**J**	51	3.3	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Benzo[g,h,i]perylene	**62**		6.8	3.3	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Benzo[a]pyrene	**99**		6.8	3.3	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Di-n-butyl phthalate	**23**	**J**	51	15	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
1,2-Dichlorobenzene	27	U Q	51	9.8	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
1,3-Dichlorobenzene	27	U Q	51	11	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
3,3'-Dichlorobenzidine	81	U	100	18	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
2,4-Dichlorophenol	27	U	150	20	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Diethyl phthalate	**26**	**J**	51	16	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Indeno[1,2,3-cd]pyrene	**58**		6.8	3.3	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Isophorone	27	U	51	13	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
2-Methylnaphthalene	**11**		6.8	3.3	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
2-Methylphenol	81	U	200	81	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Naphthalene	**6.8**		6.8	3.3	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
2-Nitroaniline	27	U	200	9.2	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
3-Nitroaniline	81	U	200	16	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
4-Nitroaniline	27	U	200	26	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Nitrobenzene	3.3	U	100	2.2	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1

Client Sample ID: LL1SB-645M-0102-SO
Date Collected: 07/05/11 11:07
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-32
Matrix: Solid
Percent Solids: 98.5

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	27	U	51	27	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
4-Nitrophenol	81	U	330	81	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Pyrene	**230**		6.8	3.3	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Pentachlorophenol	81	U	150	81	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Phenanthrene	**210**		6.8	3.3	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
1,2,4-Trichlorobenzene	27	U Q	51	27	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
2,4,5-Trichlorophenol	27	U Q	150	25	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
2,4,6-Trichlorophenol	81	U Q	150	81	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Phenol	27	U	51	27	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Carbazole	27	U	51	27	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
4-Chloroaniline	27	U	150	17	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
3 & 4 Methylphenol	81	U	410	20	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Bis(2-ethylhexyl) phthalate	**170**		51	19	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
Di-n-octyl phthalate	27	U	51	27	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
4-Chloro-3-methylphenol	27	U	150	21	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1
bis (2-Chloroisopropyl) ether	27	U	100	9.6	ug/Kg	☼	07/13/11 11:10	08/08/11 17:19	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*62*		*45 - 105*	*07/13/11 11:10*	*08/08/11 17:19*	*1*
2-Fluorophenol (Surr)	*60*		*35 - 105*	*07/13/11 11:10*	*08/08/11 17:19*	*1*
Nitrobenzene-d5 (Surr)	*58*		*35 - 100*	*07/13/11 11:10*	*08/08/11 17:19*	*1*
Terphenyl-d14 (Surr)	*80*		*30 - 125*	*07/13/11 11:10*	*08/08/11 17:19*	*1*
2,4,6-Tribromophenol (Surr)	*34*	*Q*	*35 - 125*	*07/13/11 11:10*	*08/08/11 17:19*	*1*
Phenol-d5 (Surr)	*73*		*40 - 100*	*07/13/11 11:10*	*08/08/11 17:19*	*1*

Method: 8081/DOD - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	14	U	41	13	ug/Kg	☼	07/13/11 12:29	08/04/11 22:38	20
4,4'-DDE	**210**	**D**	35	7.9	ug/Kg	☼	07/13/11 12:29	08/04/11 22:38	20
4,4'-DDT	14	U	41	13	ug/Kg	☼	07/13/11 12:29	08/04/11 22:38	20
Aldrin	27	U	81	24	ug/Kg	☼	07/13/11 12:29	08/04/11 22:38	20
alpha-BHC	27	U Q	51	15	ug/Kg	☼	07/13/11 12:29	08/04/11 22:38	20
alpha-Chlordane	27	U	61	19	ug/Kg	☼	07/13/11 12:29	08/04/11 22:38	20
beta-BHC	27	U Q	71	22	ug/Kg	☼	07/13/11 12:29	08/04/11 22:38	20
delta-BHC	27	U	81	24	ug/Kg	☼	07/13/11 12:29	08/04/11 22:38	20
Dieldrin	14	U	35	9.6	ug/Kg	☼	07/13/11 12:29	08/04/11 22:38	20
Endosulfan I	**13**	**J D**	35	11	ug/Kg	☼	07/13/11 12:29	08/04/11 22:38	20
Endosulfan II	27	U	51	17	ug/Kg	☼	07/13/11 12:29	08/04/11 22:38	20
Endosulfan sulfate	27	U	61	18	ug/Kg	☼	07/13/11 12:29	08/04/11 22:38	20
Endrin	**16**	**J D**	35	10	ug/Kg	☼	07/13/11 12:29	08/04/11 22:38	20
Endrin aldehyde	**420**	**D**	61	20	ug/Kg	☼	07/13/11 12:29	08/04/11 22:38	20
Endrin ketone	14	U	41	13	ug/Kg	☼	07/13/11 12:29	08/04/11 22:38	20
gamma-BHC (Lindane)	27	U Q	51	15	ug/Kg	☼	07/13/11 12:29	08/04/11 22:38	20
gamma-Chlordane	**650**	**D Q**	35	8.5	ug/Kg	☼	07/13/11 12:29	08/04/11 22:38	20
Heptachlor	27	U	71	22	ug/Kg	☼	07/13/11 12:29	08/04/11 22:38	20
Heptachlor epoxide	27	U	51	16	ug/Kg	☼	07/13/11 12:29	08/04/11 22:38	20
Methoxychlor	67	U	100	31	ug/Kg	☼	07/13/11 12:29	08/04/11 22:38	20
Toxaphene	410	U M	1400	390	ug/Kg	☼	07/13/11 12:29	08/04/11 22:38	20

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*123*		*55 - 130*	*07/13/11 12:29*	*08/04/11 22:38*	*20*

Client Sample ID: LL1SB-645M-0102-SO
Date Collected: 07/05/11 11:07
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-32
Matrix: Solid
Percent Solids: 98.5

Method: 8081/DOD - Organochlorine Pesticides (GC) (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	113		55 - 130	07/13/11 12:29	08/04/11 22:38	20
Tetrachloro-m-xylene	265	Q	70 - 125	07/13/11 12:29	08/04/11 22:38	20
Tetrachloro-m-xylene	102		70 - 125	07/13/11 12:29	08/04/11 22:38	20

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	2500	U	6600	2100	ug/Kg	☼	07/13/11 13:31	07/23/11 22:47	100
Aroclor 1221	2500	U	5100	1600	ug/Kg	☼	07/13/11 13:31	07/23/11 22:47	100
Aroclor 1232	2500	U	4600	1400	ug/Kg	☼	07/13/11 13:31	07/23/11 22:47	100
Aroclor 1242	2500	U	4100	1300	ug/Kg	☼	07/13/11 13:31	07/23/11 22:47	100
Aroclor 1248	2500	U	5600	1700	ug/Kg	☼	07/13/11 13:31	07/23/11 22:47	100
Aroclor 1254	**18000**	**D**	5600	1700	ug/Kg	☼	07/13/11 13:31	07/23/11 22:47	100
Aroclor 1260	2500	U	5600	1700	ug/Kg	☼	07/13/11 13:31	07/23/11 22:47	100

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	Q	40 - 140	07/13/11 13:31	07/23/11 22:47	100
Tetrachloro-m-xylene	0	Q	40 - 140	07/13/11 13:31	07/23/11 22:47	100
DCB Decachlorobiphenyl	0	Q	60 - 125	07/13/11 13:31	07/23/11 22:47	100
DCB Decachlorobiphenyl	0	Q	60 - 125	07/13/11 13:31	07/23/11 22:47	100

Method: 8330 (Modified) - Organic Compounds by UV/HPLC

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	0.039 U		0.24	0.020	mg/kg		07/15/11 12:00	07/27/11 19:47	0.98

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.10 U		0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 07:25	1
1,3-Dinitrobenzene	0.10 U		0.25	0.050	mg/kg		07/15/11 12:00	07/28/11 07:25	1
2,4,6-Trinitrotoluene	**0.19**	**J**	0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 07:25	1
2,4-Dinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 07:25	1
2,6-Dinitrotoluene	0.10 U		0.25	0.030	mg/kg		07/15/11 12:00	07/28/11 07:25	1
2-Amino-4,6-dinitrotoluene	0.10 U		0.25	0.10	mg/kg		07/15/11 12:00	07/28/11 07:25	1
2-Nitrotoluene	0.10 U		0.25	0.080	mg/kg		07/15/11 12:00	07/28/11 07:25	1
3-Nitrotoluene	0.10 U		0.25	0.070	mg/kg		07/15/11 12:00	07/28/11 07:25	1
4-Amino-2,6-dinitrotoluene	**0.13**	**J**	0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 07:25	1
4-Nitrotoluene	0.10 U		0.25	0.080	mg/kg		07/15/11 12:00	07/28/11 07:25	1
HMX	**0.15**	**J**	0.25	0.030	mg/kg		07/15/11 12:00	07/28/11 07:25	1
Nitrobenzene	0.10 U		0.25	0.050	mg/kg		07/15/11 12:00	07/28/11 07:25	1
Nitroglycerin	0.25 U		0.50	0.13	mg/kg		07/15/11 12:00	07/28/11 07:25	1
PETN	0.25 U		0.50	0.16	mg/kg		07/15/11 12:00	07/28/11 07:25	1
RDX	**0.34**		0.25	0.040	mg/kg		07/15/11 12:00	07/28/11 07:25	1
Tetryl	0.10 U		0.25	0.050	mg/kg		07/15/11 12:00	07/28/11 07:25	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
3,4-Dinitrotoluene	92		78 - 108	07/15/11 12:00	07/28/11 07:25	1

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6200**	**D**	49	12	mg/Kg	☼	07/15/11 12:40	08/29/11 14:41	5
Antimony	0.15	U	0.20	0.061	mg/Kg	☼	07/15/11 12:40	08/25/11 23:15	1
Arsenic	**5.5**		0.49	0.051	mg/Kg	☼	07/15/11 12:40	08/25/11 23:15	1

Client Sample ID: LL1SB-645M-0102-SO

Date Collected: 07/05/11 11:07
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-32

Matrix: Solid
Percent Solids: 98.5

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	71		0.49	0.13	mg/Kg	☼	07/15/11 12:40	08/25/11 23:15	1
Beryllium	0.59	D	0.49	0.017	mg/Kg	☼	07/15/11 12:40	08/29/11 14:41	5
Cadmium	0.44	J D	0.99	0.015	mg/Kg	☼	07/15/11 12:40	08/29/11 14:41	5
Calcium	29000	D	990	200	mg/Kg	☼	07/15/11 12:40	08/29/11 14:41	5
Chromium	27		0.49	0.16	mg/Kg	☼	07/15/11 12:40	08/25/11 23:15	1
Cobalt	4.0	D	0.49	0.022	mg/Kg	☼	07/15/11 12:40	08/29/11 14:41	5
Copper	12		0.39	0.11	mg/Kg	☼	07/15/11 12:40	08/25/11 23:15	1
Iron	13000		49	11	mg/Kg	☼	07/15/11 12:40	08/25/11 23:15	1
Lead	75		0.30	0.069	mg/Kg	☼	07/15/11 12:40	08/25/11 23:15	1
Magnesium	2800		99	8.8	mg/Kg	☼	07/15/11 12:40	08/25/11 23:15	1
Manganese	690	D	2.5	0.79	mg/Kg	☼	07/15/11 12:40	08/29/11 14:41	5
Nickel	17		0.49	0.085	mg/Kg	☼	07/15/11 12:40	08/25/11 23:15	1
Potassium	690		99	3.7	mg/Kg	☼	07/15/11 12:40	08/25/11 23:15	1
Selenium	0.65		0.49	0.020	mg/Kg	☼	07/15/11 12:40	08/25/11 23:15	1
Silver	0.25	U	0.49	0.079	mg/Kg	☼	07/15/11 12:40	08/29/11 14:41	5
Sodium	96	J	99	14	mg/Kg	☼	07/15/11 12:40	08/25/11 23:15	1
Thallium	0.093	J	0.20	0.055	mg/Kg	☼	07/15/11 12:40	08/25/11 23:15	1
Vanadium	8.8		0.49	0.043	mg/Kg	☼	07/15/11 12:40	08/25/11 23:15	1
Zinc	63	D	20	4.9	mg/Kg	☼	07/15/11 12:40	08/29/11 14:41	5

Method: 7471/DOD - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043	J	0.091	0.013	mg/Kg	☼	07/15/11 15:30	07/18/11 17:10	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	0.81	U	0.81	0.27	mg/Kg	☼	07/18/11 14:13	07/20/11 16:38	1

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	1.4	J	5.1	0.79	mg/kg	☼	07/20/11 05:35	07/21/11 13:13	1

Client Sample ID: LL1SB-645V-0102-SO

Date Collected: 07/05/11 11:14
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-33

Matrix: Solid

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	11	U	270	23	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
1,1,2,2-Tetrachloroethane	27	U	270	9.6	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
1,1,2-Trichloroethane	27	U	270	13	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
1,1-Dichloroethane	27	U	270	18	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
1,1-Dichloroethene	27	U	270	19	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
1,2-Dichloroethane	27	U	270	11	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
1,2-Dichloroethene, Total	8.8	U	540	8.8	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
1,2-Dichloropropane	11	U	270	8.8	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
2-Butanone	110	U	1100	46	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
2-Hexanone	54	U	1100	21	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
4-Methyl-2-pentanone	110	U	1100	52	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
Acetone	210	U	1100	180	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
Benzene	27	U	270	13	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
Bromoform	27	U	270	20	ug/Kg		07/12/11 14:55	07/12/11 20:12	1

Client Sample ID: LL1SB-645V-0102-SO
Date Collected: 07/05/11 11:14
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-33
Matrix: Solid

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	54	U	270	31	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
Carbon disulfide	27	U	270	13	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
Carbon tetrachloride	11	U	270	6.9	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
Chlorobenzene	11	U	270	6.9	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
Chloromethane	27	U	270	15	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
cis-1,2-Dichloroethene	11	U	270	7.4	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
cis-1,3-Dichloropropene	11	U	270	8.5	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
Dibromochloromethane	27	U	270	13	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
Bromodichloromethane	27	U	270	11	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
Ethylbenzene	11	U	270	5.8	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
Methylene Chloride	**100**	**J**	270	83	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
Styrene	11	U	270	6.0	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
Tetrachloroethene	27	U	270	13	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
Toluene	27	U	270	18	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
trans-1,2-Dichloroethene	27	U	270	9.9	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
trans-1,3-Dichloropropene	27	U	270	21	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
Trichloroethene	27	U	270	10	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
Vinyl chloride	27	U	270	19	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
Xylenes (total)	32	U	540	8.7	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
Chloroform	27	U	270	9.4	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
Bromochloromethane	27	U	270	14	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
1,2-Dibromoethane	27	U	270	11	ug/Kg		07/12/11 14:55	07/12/11 20:12	1
Chloroethane	110	U	270	65	ug/Kg		07/12/11 14:55	07/12/11 20:12	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*80*	*Q*	*85 - 115*	*07/12/11 14:55*	*07/12/11 20:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*61 - 130*	*07/12/11 14:55*	*07/12/11 20:12*	*1*
4-Bromofluorobenzene (Surr)	*79*	*Q*	*85 - 120*	*07/12/11 14:55*	*07/12/11 20:12*	*1*
Dibromofluoromethane (Surr)	*73*		*59 - 138*	*07/12/11 14:55*	*07/12/11 20:12*	*1*

Client Sample ID: LL1SB-645M-0103-SO
Date Collected: 07/05/11 11:01
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-34
Matrix: Solid
Percent Solids: 99.5

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Benzo[a]anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Benzoic acid	330	U M	660	330	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Benzo[b]fluoranthene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Benzo[k]fluoranthene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Benzyl alcohol	27	U	330	21	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Bis(2-chloroethoxy)methane	27	U	100	22	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Bis(2-chloroethyl)ether	3.3	U	100	2.0	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
4-Bromophenyl phenyl ether	27	U	50	13	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Butyl benzyl phthalate	27	U	50	10	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
2,4-Dimethylphenol	80	U	150	20	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Dimethyl phthalate	27	U	50	17	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1

Client Sample ID: LL1SB-645M-0103-SO
Date Collected: 07/05/11 11:01
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-34
Matrix: Solid
Percent Solids: 99.5

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	80	U	150	80	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
2,4-Dinitrophenol	80	U	330	80	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
2,4-Dinitrotoluene	27	U	200	27	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
2,6-Dinitrotoluene	27	U	200	21	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Fluoranthene	**10**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Fluorene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Hexachlorobenzene	3.3	U	6.7	2.1	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Hexachlorobutadiene	27	U Q	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Hexachlorocyclopentadiene	27	U	330	27	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Hexachloroethane	27	U	50	9.0	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
N-Nitrosodiphenylamine	27	U	50	21	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
N-Nitrosodi-n-propylamine	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
1,4-Dichlorobenzene	27	U	50	20	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
2-Chloronaphthalene	3.3	U	50	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
2-Chlorophenol	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
4-Chlorophenyl phenyl ether	27	U	50	13	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Chrysene	3.3	U	6.7	1.1	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Dibenzofuran	3.3	U	50	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Benzo[g,h,i]perylene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Benzo[a]pyrene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Di-n-butyl phthalate	**24**	**J**	50	15	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
1,2-Dichlorobenzene	27	U Q	50	9.8	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
1,3-Dichlorobenzene	27	U Q	50	11	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
3,3'-Dichlorobenzidine	80	U	100	18	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
2,4-Dichlorophenol	27	U	150	20	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Diethyl phthalate	**30**	**J**	50	16	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Indeno[1,2,3-cd]pyrene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Isophorone	27	U	50	13	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
2-Methylnaphthalene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
2-Methylphenol	80	U	200	80	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
2-Nitroaniline	27	U	200	9.1	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
3-Nitroaniline	80	U	200	16	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
4-Nitroaniline	27	U	200	26	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Nitrobenzene	3.3	U	100	2.2	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
2-Nitrophenol	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
4-Nitrophenol	80	U	330	80	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Pyrene	**9.1**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Pentachlorophenol	80	U	150	80	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Phenanthrene	**6.7**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
1,2,4-Trichlorobenzene	27	U Q	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
2,4,5-Trichlorophenol	27	U Q	150	25	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
2,4,6-Trichlorophenol	80	U Q	150	80	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Phenol	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Carbazole	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
4-Chloroaniline	27	U	150	17	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
3 & 4 Methylphenol	80	U	400	20	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Bis(2-ethylhexyl) phthalate	**240**		50	19	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
Di-n-octyl phthalate	27	U	50	27	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1

Client Sample ID: LL1SB-645M-0103-SO
Date Collected: 07/05/11 11:01
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-34
Matrix: Solid
Percent Solids: 99.5

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	27	U	150	21	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1
bis (2-Chloroisopropyl) ether	27	U	100	9.6	ug/Kg	☼	07/13/11 11:10	08/01/11 19:11	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*45*		*45 - 105*	*07/13/11 11:10*	*08/01/11 19:11*	*1*
2-Fluorophenol (Surr)	*66*		*35 - 105*	*07/13/11 11:10*	*08/01/11 19:11*	*1*
Nitrobenzene-d5 (Surr)	*49*		*35 - 100*	*07/13/11 11:10*	*08/01/11 19:11*	*1*
Terphenyl-d14 (Surr)	*68*		*30 - 125*	*07/13/11 11:10*	*08/01/11 19:11*	*1*
2,4,6-Tribromophenol (Surr)	*55*		*35 - 125*	*07/13/11 11:10*	*08/01/11 19:11*	*1*
Phenol-d5 (Surr)	*65*		*40 - 100*	*07/13/11 11:10*	*08/01/11 19:11*	*1*

Method: 8081/DOD - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	13	U	40	12	ug/Kg	☼	07/13/11 12:29	07/31/11 05:39	20
4,4'-DDE	**670**	**D J**	34	7.8	ug/Kg	☼	07/13/11 12:29	07/31/11 05:39	20
4,4'-DDT	**20**	**D J**	40	13	ug/Kg	☼	07/13/11 12:29	07/31/11 05:39	20
Aldrin	27	U	80	24	ug/Kg	☼	07/13/11 12:29	07/31/11 05:39	20
alpha-BHC	27	U Q J	50	15	ug/Kg	☼	07/13/11 12:29	07/31/11 05:39	20
alpha-Chlordane	27	U	60	19	ug/Kg	☼	07/13/11 12:29	07/31/11 05:39	20
beta-BHC	**28**	**D J Q**	70	22	ug/Kg	☼	07/13/11 12:29	07/31/11 05:39	20
delta-BHC	27	U	80	24	ug/Kg	☼	07/13/11 12:29	07/31/11 05:39	20
Dieldrin	13	U J	34	9.4	ug/Kg	☼	07/13/11 12:29	07/31/11 05:39	20
Endosulfan I	13	U M J	34	10	ug/Kg	☼	07/13/11 12:29	07/31/11 05:39	20
Endosulfan II	27	U	50	16	ug/Kg	☼	07/13/11 12:29	07/31/11 05:39	20
Endosulfan sulfate	27	U	60	17	ug/Kg	☼	07/13/11 12:29	07/31/11 05:39	20
Endrin	**36**	**D J**	34	10	ug/Kg	☼	07/13/11 12:29	07/31/11 05:39	20
Endrin aldehyde	27	U M	60	20	ug/Kg	☼	07/13/11 12:29	07/31/11 05:39	20
Endrin ketone	13	U M J	40	13	ug/Kg	☼	07/13/11 12:29	07/31/11 05:39	20
gamma-BHC (Lindane)	27	U Q	50	15	ug/Kg	☼	07/13/11 12:29	07/31/11 05:39	20
gamma-Chlordane	13	U M Q J	34	8.4	ug/Kg	☼	07/13/11 12:29	07/31/11 05:39	20
Heptachlor	27	U	70	22	ug/Kg	☼	07/13/11 12:29	07/31/11 05:39	20
Heptachlor epoxide	27	U	50	16	ug/Kg	☼	07/13/11 12:29	07/31/11 05:39	20
Methoxychlor	66	U	100	30	ug/Kg	☼	07/13/11 12:29	07/31/11 05:39	20
Toxaphene	400	U M	1300	380	ug/Kg	☼	07/13/11 12:29	07/31/11 05:39	20

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*556*	*Q*	*55 - 130*	*07/13/11 12:29*	*07/31/11 05:39*	*20*
DCB Decachlorobiphenyl	*516*	*Q*	*55 - 130*	*07/13/11 12:29*	*07/31/11 05:39*	*20*
Tetrachloro-m-xylene	*1440*	*Q*	*70 - 125*	*07/13/11 12:29*	*07/31/11 05:39*	*20*
Tetrachloro-m-xylene	*424*	*Q*	*70 - 125*	*07/13/11 12:29*	*07/31/11 05:39*	*20*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	65	21	ug/Kg	☼	07/13/11 13:31	07/23/11 23:31	1
Aroclor 1221	25	U	50	16	ug/Kg	☼	07/13/11 13:31	07/23/11 23:31	1
Aroclor 1232	25	U	45	14	ug/Kg	☼	07/13/11 13:31	07/23/11 23:31	1
Aroclor 1242	25	U	40	13	ug/Kg	☼	07/13/11 13:31	07/23/11 23:31	1
Aroclor 1248	25	U	55	17	ug/Kg	☼	07/13/11 13:31	07/23/11 23:31	1
Aroclor 1254	**280**		55	17	ug/Kg	☼	07/13/11 13:31	07/23/11 23:31	1
Aroclor 1260	25	U	55	17	ug/Kg	☼	07/13/11 13:31	07/23/11 23:31	1

Client Sample ID: LL1SB-645M-0103-SO
Date Collected: 07/05/11 11:01
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-34
Matrix: Solid
Percent Solids: 99.5

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*40 - 140*	*07/13/11 13:31*	*07/23/11 23:31*	*1*
Tetrachloro-m-xylene	*82*		*40 - 140*	*07/13/11 13:31*	*07/23/11 23:31*	*1*
DCB Decachlorobiphenyl	*91*		*60 - 125*	*07/13/11 13:31*	*07/23/11 23:31*	*1*
DCB Decachlorobiphenyl	*97*		*60 - 125*	*07/13/11 13:31*	*07/23/11 23:31*	*1*

Method: 8330 (Modified) - Organic Compounds by UV/HPLC

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	0.039 U		0.24	0.019	mg/kg		07/15/11 12:00	07/27/11 20:02	0.97

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**0.070**	**J**	0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 08:05	1.01
1,3-Dinitrobenzene	0.10 U		0.25	0.050	mg/kg		07/15/11 12:00	07/28/11 08:05	1.01
2,4,6-Trinitrotoluene	**3.4**		0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 08:05	1.01
2,4-Dinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 08:05	1.01
2,6-Dinitrotoluene	0.10 U		0.25	0.030	mg/kg		07/15/11 12:00	07/28/11 08:05	1.01
2-Amino-4,6-dinitrotoluene	**0.16**	**J**	0.25	0.10	mg/kg		07/15/11 12:00	07/28/11 08:05	1.01
2-Nitrotoluene	0.10 U		0.25	0.081	mg/kg		07/15/11 12:00	07/28/11 08:05	1.01
3-Nitrotoluene	0.10 U		0.25	0.071	mg/kg		07/15/11 12:00	07/28/11 08:05	1.01
4-Amino-2,6-dinitrotoluene	**0.49**		0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 08:05	1.01
4-Nitrotoluene	0.10 U		0.25	0.081	mg/kg		07/15/11 12:00	07/28/11 08:05	1.01
HMX	**0.26**		0.25	0.030	mg/kg		07/15/11 12:00	07/28/11 08:05	1.01
Nitrobenzene	0.10 U		0.25	0.050	mg/kg		07/15/11 12:00	07/28/11 08:05	1.01
Nitroglycerin	0.25 U		0.50	0.13	mg/kg		07/15/11 12:00	07/28/11 08:05	1.01
PETN	0.25 U		0.50	0.16	mg/kg		07/15/11 12:00	07/28/11 08:05	1.01
RDX	**0.52**		0.25	0.040	mg/kg		07/15/11 12:00	07/28/11 08:05	1.01
Tetryl	0.10 U		0.25	0.050	mg/kg		07/15/11 12:00	07/28/11 08:05	1.01

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*93*		*78 - 108*	*07/15/11 12:00*	*07/28/11 08:05*	*1.01*

Method: 6020/DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3400**	**D**	46	11	mg/Kg	☼	07/15/11 12:40	08/29/11 14:25	5
Antimony	0.14	U	0.18	0.057	mg/Kg	☼	07/15/11 12:40	08/25/11 22:58	1
Arsenic	**3.5**		0.46	0.048	mg/Kg	☼	07/15/11 12:40	08/25/11 22:58	1
Barium	**23**		0.46	0.12	mg/Kg	☼	07/15/11 12:40	08/25/11 22:58	1
Beryllium	**0.45**	**J D**	0.46	0.016	mg/Kg	☼	07/15/11 12:40	08/29/11 14:25	5
Cadmium	**0.15**	**J D**	0.91	0.014	mg/Kg	☼	07/15/11 12:40	08/29/11 14:25	5
Calcium	**9000**		180	37	mg/Kg	☼	07/15/11 12:40	08/25/11 22:58	1
Chromium	**17**		0.46	0.15	mg/Kg	☼	07/15/11 12:40	08/25/11 22:58	1
Cobalt	**2.1**	**D**	0.46	0.021	mg/Kg	☼	07/15/11 12:40	08/29/11 14:25	5
Copper	**4.4**		0.37	0.10	mg/Kg	☼	07/15/11 12:40	08/25/11 22:58	1
Iron	**12000**		46	10	mg/Kg	☼	07/15/11 12:40	08/25/11 22:58	1
Lead	**6.3**		0.27	0.064	mg/Kg	☼	07/15/11 12:40	08/25/11 22:58	1
Magnesium	**1800**		91	8.1	mg/Kg	☼	07/15/11 12:40	08/25/11 22:58	1
Manganese	**310**	**D**	2.3	0.73	mg/Kg	☼	07/15/11 12:40	08/29/11 14:25	5
Nickel	**10**		0.46	0.079	mg/Kg	☼	07/15/11 12:40	08/25/11 22:58	1
Potassium	**460**		91	3.4	mg/Kg	☼	07/15/11 12:40	08/25/11 22:58	1
Selenium	**0.42**	**J**	0.46	0.019	mg/Kg	☼	07/15/11 12:40	08/25/11 22:58	1
Silver	0.23	U	0.46	0.073	mg/Kg	☼	07/15/11 12:40	08/29/11 14:25	5
Sodium	**66**	**J**	91	13	mg/Kg	☼	07/15/11 12:40	08/25/11 22:58	1

Client Sample ID: LL1SB-645M-0103-SO

Date Collected: 07/05/11 11:01
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-34

Matrix: Solid
Percent Solids: 99.5

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.066	J	0.18	0.051	mg/Kg	☼	07/15/11 12:40	08/25/11 22:58	1
Vanadium	3.9		0.46	0.039	mg/Kg	☼	07/15/11 12:40	08/25/11 22:58	1
Zinc	42	D	18	4.6	mg/Kg	☼	07/15/11 12:40	08/29/11 14:25	5

Method: 7471/DOD - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026	U	0.079	0.011	mg/Kg	☼	07/15/11 15:30	07/18/11 17:09	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	0.80	U	0.80	0.27	mg/Kg	☼	07/18/11 14:13	07/20/11 16:39	1

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	5.4		5.0	0.78	mg/kg	☼	07/20/11 05:35	07/21/11 13:15	1

Client Sample ID: LL1SB-645V-0103-SO

Date Collected: 07/05/11 11:17
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-35

Matrix: Solid

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	13	U	310	26	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
1,1,2,2-Tetrachloroethane	31	U	310	11	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
1,1,2-Trichloroethane	31	U	310	15	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
1,1-Dichloroethane	31	U	310	21	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
1,1-Dichloroethene	31	U	310	23	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
1,2-Dichloroethane	31	U	310	13	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
1,2-Dichloroethene, Total	10	U	630	10	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
1,2-Dichloropropane	13	U	310	10	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
2-Butanone	130	U	1300	54	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
2-Hexanone	63	U	1300	25	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
4-Methyl-2-pentanone	130	U	1300	60	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
Acetone	250	U	1300	210	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
Benzene	31	U	310	15	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
Bromoform	31	U	310	24	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
Bromomethane	63	U	310	37	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
Carbon disulfide	31	U	310	15	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
Carbon tetrachloride	13	U	310	8.1	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
Chlorobenzene	13	U	310	8.1	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
Chloromethane	31	U	310	18	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
cis-1,2-Dichloroethene	13	U	310	8.7	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
cis-1,3-Dichloropropene	13	U	310	10	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
Dibromochloromethane	31	U	310	15	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
Bromodichloromethane	31	U	310	12	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
Ethylbenzene	13	U	310	6.8	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
Methylene Chloride	130	J	310	97	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
Styrene	13	U	310	7.1	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
Tetrachloroethene	31	U	310	15	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
Toluene	31	U	310	21	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
trans-1,2-Dichloroethene	31	U	310	12	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
trans-1,3-Dichloropropene	31	U	310	25	ug/Kg		07/12/11 14:55	07/12/11 20:33	1

Client Sample ID: LL1SB-645V-0103-SO

Date Collected: 07/05/11 11:17
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-35

Matrix: Solid

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	31	U	310	12	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
Vinyl chloride	31	U	310	23	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
Xylenes (total)	38	U	630	10	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
Chloroform	31	U	310	11	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
Bromochloromethane	31	U	310	16	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
1,2-Dibromoethane	31	U	310	13	ug/Kg		07/12/11 14:55	07/12/11 20:33	1
Chloroethane	130	U	310	77	ug/Kg		07/12/11 14:55	07/12/11 20:33	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*81*	*Q*	*85 - 115*	*07/12/11 14:55*	*07/12/11 20:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*61 - 130*	*07/12/11 14:55*	*07/12/11 20:33*	*1*
4-Bromofluorobenzene (Surr)	*82*	*Q*	*85 - 120*	*07/12/11 14:55*	*07/12/11 20:33*	*1*
Dibromofluoromethane (Surr)	*76*		*59 - 138*	*07/12/11 14:55*	*07/12/11 20:33*	*1*

Client Sample ID: LL1SB-643M-0101-SO

Date Collected: 07/05/11 14:45
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-36

Matrix: Solid
Percent Solids: 99.2

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	13	U	27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 14:48	4
Acenaphthylene	13	U	27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 14:48	4
Anthracene	13	U	27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 14:48	4
Benzo[a]anthracene	**32**		27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 14:48	4
Benzo[a]pyrene	**29**		27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 14:48	4
Benzo[b]fluoranthene	**31**	**M**	27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 14:48	4
Benzo[g,h,i]perylene	13	U	27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 14:48	4
Benzo[k]fluoranthene	13	U	27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 14:48	4
Chrysene	**32**		27	4.4	ug/Kg	☼	07/13/11 11:10	08/01/11 14:48	4
Dibenz(a,h)anthracene	13	U	27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 14:48	4
Fluoranthene	**70**		27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 14:48	4
Fluorene	13	U	27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 14:48	4
Indeno[1,2,3-cd]pyrene	13	U	27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 14:48	4
Naphthalene	13	U	27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 14:48	4
Pyrene	**59**		27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 14:48	4
Phenanthrene	**58**		27	13	ug/Kg	☼	07/13/11 11:10	08/01/11 14:48	4

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*48*		*45 - 105*	*07/13/11 11:10*	*08/01/11 14:48*	*4*
2-Fluorophenol (Surr)	*59*		*35 - 105*	*07/13/11 11:10*	*08/01/11 14:48*	*4*
Nitrobenzene-d5 (Surr)	*49*		*35 - 100*	*07/13/11 11:10*	*08/01/11 14:48*	*4*
Terphenyl-d14 (Surr)	*60*		*30 - 125*	*07/13/11 11:10*	*08/01/11 14:48*	*4*
2,4,6-Tribromophenol (Surr)	*51*		*35 - 125*	*07/13/11 11:10*	*08/01/11 14:48*	*4*
Phenol-d5 (Surr)	*58*		*40 - 100*	*07/13/11 11:10*	*08/01/11 14:48*	*4*

Client Sample ID: LL1SB-643M-0102-SO

Date Collected: 07/05/11 14:45
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-37

Matrix: Solid
Percent Solids: 99.5

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 14:10	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 14:10	1
Anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 14:10	1
Benzo[a]anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 14:10	1
Benzo[a]pyrene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 14:10	1
Benzo[b]fluoranthene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 14:10	1
Benzo[g,h,i]perylene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 14:10	1
Benzo[k]fluoranthene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 14:10	1
Chrysene	3.3	U	6.7	1.1	ug/Kg	☼	07/13/11 11:10	08/01/11 14:10	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 14:10	1
Fluoranthene	**11**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 14:10	1
Fluorene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 14:10	1
Indeno[1,2,3-cd]pyrene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 14:10	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 14:10	1
Pyrene	**14**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 14:10	1
Phenanthrene	**12**		6.7	3.3	ug/Kg	☼	07/13/11 11:10	08/01/11 14:10	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*53*		*45 - 105*	*07/13/11 11:10*	*08/01/11 14:10*	*1*
2-Fluorophenol (Surr)	*61*		*35 - 105*	*07/13/11 11:10*	*08/01/11 14:10*	*1*
Nitrobenzene-d5 (Surr)	*50*		*35 - 100*	*07/13/11 11:10*	*08/01/11 14:10*	*1*
Terphenyl-d14 (Surr)	*65*		*30 - 125*	*07/13/11 11:10*	*08/01/11 14:10*	*1*
2,4,6-Tribromophenol (Surr)	*51*		*35 - 125*	*07/13/11 11:10*	*08/01/11 14:10*	*1*
Phenol-d5 (Surr)	*63*		*40 - 100*	*07/13/11 11:10*	*08/01/11 14:10*	*1*

Client Sample ID: LL1SB-643M-0103-SO

Date Collected: 07/05/11 14:47
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-38

Matrix: Solid
Percent Solids: 99.4

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	33	U	67	33	ug/Kg	☼	07/13/11 11:10	08/01/11 14:29	10
Acenaphthylene	33	U	67	33	ug/Kg	☼	07/13/11 11:10	08/01/11 14:29	10
Anthracene	33	U	67	33	ug/Kg	☼	07/13/11 11:10	08/01/11 14:29	10
Benzo[a]anthracene	33	U	67	33	ug/Kg	☼	07/13/11 11:10	08/01/11 14:29	10
Benzo[a]pyrene	33	U	67	33	ug/Kg	☼	07/13/11 11:10	08/01/11 14:29	10
Benzo[b]fluoranthene	33	U	67	33	ug/Kg	☼	07/13/11 11:10	08/01/11 14:29	10
Benzo[g,h,i]perylene	33	U	67	33	ug/Kg	☼	07/13/11 11:10	08/01/11 14:29	10
Benzo[k]fluoranthene	33	U	67	33	ug/Kg	☼	07/13/11 11:10	08/01/11 14:29	10
Chrysene	33	U	67	11	ug/Kg	☼	07/13/11 11:10	08/01/11 14:29	10
Dibenz(a,h)anthracene	33	U	67	33	ug/Kg	☼	07/13/11 11:10	08/01/11 14:29	10
Fluoranthene	**100**	**D**	67	33	ug/Kg	☼	07/13/11 11:10	08/01/11 14:29	10
Fluorene	33	U	67	33	ug/Kg	☼	07/13/11 11:10	08/01/11 14:29	10
Indeno[1,2,3-cd]pyrene	33	U	67	33	ug/Kg	☼	07/13/11 11:10	08/01/11 14:29	10
Naphthalene	33	U	67	33	ug/Kg	☼	07/13/11 11:10	08/01/11 14:29	10
Pyrene	**83**	**D**	67	33	ug/Kg	☼	07/13/11 11:10	08/01/11 14:29	10
Phenanthrene	**110**	**D**	67	33	ug/Kg	☼	07/13/11 11:10	08/01/11 14:29	10

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*45 - 105*	*07/13/11 11:10*	*08/01/11 14:29*	*10*

Client Sample ID: LL1SB-643M-0103-SO

Lab Sample ID: 240-1728-38

Date Collected: 07/05/11 14:47
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 99.4

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	*69*		*35 - 105*	*07/13/11 11:10*	*08/01/11 14:29*	*10*
Nitrobenzene-d5 (Surr)	*60*		*35 - 100*	*07/13/11 11:10*	*08/01/11 14:29*	*10*
Terphenyl-d14 (Surr)	*75*		*30 - 125*	*07/13/11 11:10*	*08/01/11 14:29*	*10*
2,4,6-Tribromophenol (Surr)	*53*		*35 - 125*	*07/13/11 11:10*	*08/01/11 14:29*	*10*
Phenol-d5 (Surr)	*72*		*40 - 100*	*07/13/11 11:10*	*08/01/11 14:29*	*10*

Client Sample ID: LL1SB-640M-0101-SO

Lab Sample ID: 240-1728-39

Date Collected: 07/05/11 16:15
Matrix: Solid
Date Received: 07/06/11 13:15

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**0.026**	**J**	0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 08:46	0.99
1,3-Dinitrobenzene	0.099 U		0.25	0.050	mg/kg		07/15/11 12:00	07/28/11 08:46	0.99
2,4,6-Trinitrotoluene	**0.24**	**J**	0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 08:46	0.99
2,4-Dinitrotoluene	0.099 U		0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 08:46	0.99
2,6-Dinitrotoluene	0.099 U		0.25	0.030	mg/kg		07/15/11 12:00	07/28/11 08:46	0.99
2-Amino-4,6-dinitrotoluene	0.099 U		0.25	0.099	mg/kg		07/15/11 12:00	07/28/11 08:46	0.99
2-Nitrotoluene	0.099 U		0.25	0.079	mg/kg		07/15/11 12:00	07/28/11 08:46	0.99
3-Nitrotoluene	0.099 U		0.25	0.069	mg/kg		07/15/11 12:00	07/28/11 08:46	0.99
4-Amino-2,6-dinitrotoluene	**0.094**	**J**	0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 08:46	0.99
4-Nitrotoluene	0.099 U		0.25	0.079	mg/kg		07/15/11 12:00	07/28/11 08:46	0.99
HMX	**0.62**		0.25	0.030	mg/kg		07/15/11 12:00	07/28/11 08:46	0.99
Nitrobenzene	0.099 U		0.25	0.050	mg/kg		07/15/11 12:00	07/28/11 08:46	0.99
Nitroglycerin	0.25 U		0.50	0.13	mg/kg		07/15/11 12:00	07/28/11 08:46	0.99
PETN	0.25 U		0.50	0.16	mg/kg		07/15/11 12:00	07/28/11 08:46	0.99
RDX	**0.34**		0.25	0.040	mg/kg		07/15/11 12:00	07/28/11 08:46	0.99
Tetryl	0.099 U		0.25	0.050	mg/kg		07/15/11 12:00	07/28/11 08:46	0.99

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
3,4-Dinitrotoluene	*91*		*78 - 108*	*07/15/11 12:00*	*07/28/11 08:46*	*0.99*

Client Sample ID: LL1SB-640M-0102-SO

Lab Sample ID: 240-1728-40

Date Collected: 07/05/11 16:14
Matrix: Solid
Date Received: 07/06/11 13:15

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**0.037**	**J**	0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 09:26	0.99
1,3-Dinitrobenzene	0.099 U		0.25	0.050	mg/kg		07/15/11 12:00	07/28/11 09:26	0.99
2,4,6-Trinitrotoluene	**6.3**		0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 09:26	0.99
2,4-Dinitrotoluene	0.099 U		0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 09:26	0.99
2,6-Dinitrotoluene	0.099 U		0.25	0.030	mg/kg		07/15/11 12:00	07/28/11 09:26	0.99
2-Amino-4,6-dinitrotoluene	0.099 U		0.25	0.099	mg/kg		07/15/11 12:00	07/28/11 09:26	0.99
2-Nitrotoluene	0.099 U		0.25	0.079	mg/kg		07/15/11 12:00	07/28/11 09:26	0.99
3-Nitrotoluene	0.099 U		0.25	0.069	mg/kg		07/15/11 12:00	07/28/11 09:26	0.99
4-Amino-2,6-dinitrotoluene	0.099 U		0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 09:26	0.99
4-Nitrotoluene	0.099 U		0.25	0.079	mg/kg		07/15/11 12:00	07/28/11 09:26	0.99

Client Sample ID: LL1SB-640M-0102-SO

Lab Sample ID: 240-1728-40

Date Collected: 07/05/11 16:14
Matrix: Solid
Date Received: 07/06/11 13:15

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A) (Continued)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HMX	**0.83**		0.25	0.030	mg/kg		07/15/11 12:00	07/28/11 09:26	0.99
Nitrobenzene	0.099 U		0.25	0.050	mg/kg		07/15/11 12:00	07/28/11 09:26	0.99
Nitroglycerin	0.25 U		0.50	0.13	mg/kg		07/15/11 12:00	07/28/11 09:26	0.99
PETN	0.25 U		0.50	0.16	mg/kg		07/15/11 12:00	07/28/11 09:26	0.99
RDX	**2.1**		0.25	0.040	mg/kg		07/15/11 12:00	07/28/11 09:26	0.99
Tetryl	0.099 U		0.25	0.050	mg/kg		07/15/11 12:00	07/28/11 09:26	0.99

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*92*		*78 - 108*	*07/15/11 12:00*	*07/28/11 09:26*	*0.99*

Client Sample ID: LL1SB-640M-0103-SO

Lab Sample ID: 240-1728-41

Date Collected: 07/05/11 16:12
Matrix: Solid
Date Received: 07/06/11 13:15

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**0.053**	**J**	0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 10:06	1
1,3-Dinitrobenzene	0.10 U		0.25	0.050	mg/kg		07/15/11 12:00	07/28/11 10:06	1
2,4,6-Trinitrotoluene	**15**		0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 10:06	1
2,4-Dinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 10:06	1
2,6-Dinitrotoluene	0.10 U		0.25	0.030	mg/kg		07/15/11 12:00	07/28/11 10:06	1
2-Amino-4,6-dinitrotoluene	0.10 U		0.25	0.10	mg/kg		07/15/11 12:00	07/28/11 10:06	1
2-Nitrotoluene	0.10 U		0.25	0.080	mg/kg		07/15/11 12:00	07/28/11 10:06	1
3-Nitrotoluene	0.10 U		0.25	0.070	mg/kg		07/15/11 12:00	07/28/11 10:06	1
4-Amino-2,6-dinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/15/11 12:00	07/28/11 10:06	1
4-Nitrotoluene	0.10 U		0.25	0.080	mg/kg		07/15/11 12:00	07/28/11 10:06	1
HMX	**0.098**	**J**	0.25	0.030	mg/kg		07/15/11 12:00	07/28/11 10:06	1
Nitrobenzene	0.10 U		0.25	0.050	mg/kg		07/15/11 12:00	07/28/11 10:06	1
Nitroglycerin	0.25 U		0.50	0.13	mg/kg		07/15/11 12:00	07/28/11 10:06	1
PETN	0.25 U		0.50	0.16	mg/kg		07/15/11 12:00	07/28/11 10:06	1
RDX	**0.18**	**J**	0.25	0.040	mg/kg		07/15/11 12:00	07/28/11 10:06	1
Tetryl	0.10 U		0.25	0.050	mg/kg		07/15/11 12:00	07/28/11 10:06	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*93*		*78 - 108*	*07/15/11 12:00*	*07/28/11 10:06*	*1*

Client Sample ID: LL1SB-641M-0101-SO

Lab Sample ID: 240-1728-42

Date Collected: 07/06/11 09:30
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 99.1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**10**		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 19:30	1
Acenaphthylene	**8.6**		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 19:30	1
Anthracene	**64**		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 19:30	1
Benzo[a]anthracene	**230**		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 19:30	1
Benzo[a]pyrene	**190**		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 19:30	1
Benzo[b]fluoranthene	**220**	**M**	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 19:30	1
Benzo[g,h,i]perylene	**130**		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 19:30	1

Client Sample ID: LL1SB-641M-0101-SO

Date Collected: 07/06/11 09:30
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-42

Matrix: Solid
Percent Solids: 99.1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	160	M	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 19:30	1
Chrysene	200		6.7	1.1	ug/Kg	☼	07/15/11 10:59	07/29/11 19:30	1
Dibenz(a,h)anthracene	30		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 19:30	1
Fluoranthene	510		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 19:30	1
Fluorene	12		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 19:30	1
Indeno[1,2,3-cd]pyrene	110		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 19:30	1
Naphthalene	13		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 19:30	1
Pyrene	370		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 19:30	1
Phenanthrene	220		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 19:30	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*45 - 105*	*07/15/11 10:59*	*07/29/11 19:30*	*1*
2-Fluorophenol (Surr)	*59*		*35 - 105*	*07/15/11 10:59*	*07/29/11 19:30*	*1*
Nitrobenzene-d5 (Surr)	*58*		*35 - 100*	*07/15/11 10:59*	*07/29/11 19:30*	*1*
Terphenyl-d14 (Surr)	*73*		*30 - 125*	*07/15/11 10:59*	*07/29/11 19:30*	*1*
2,4,6-Tribromophenol (Surr)	*36*		*35 - 125*	*07/15/11 10:59*	*07/29/11 19:30*	*1*
Phenol-d5 (Surr)	*64*		*40 - 100*	*07/15/11 10:59*	*07/29/11 19:30*	*1*

Client Sample ID: LL1SB-641M-0102-SO

Date Collected: 07/06/11 09:37
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-43

Matrix: Solid
Percent Solids: 99.6

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 17:56	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 17:56	1
Anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 17:56	1
Benzo[a]anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 17:56	1
Benzo[a]pyrene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 17:56	1
Benzo[b]fluoranthene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 17:56	1
Benzo[g,h,i]perylene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 17:56	1
Benzo[k]fluoranthene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 17:56	1
Chrysene	3.3	U	6.7	1.1	ug/Kg	☼	07/15/11 10:59	07/29/11 17:56	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 17:56	1
Fluoranthene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 17:56	1
Fluorene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 17:56	1
Indeno[1,2,3-cd]pyrene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 17:56	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 17:56	1
Pyrene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 17:56	1
Phenanthrene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 17:56	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*53*		*45 - 105*	*07/15/11 10:59*	*07/29/11 17:56*	*1*
2-Fluorophenol (Surr)	*49*		*35 - 105*	*07/15/11 10:59*	*07/29/11 17:56*	*1*
Nitrobenzene-d5 (Surr)	*52*		*35 - 100*	*07/15/11 10:59*	*07/29/11 17:56*	*1*
Terphenyl-d14 (Surr)	*77*		*30 - 125*	*07/15/11 10:59*	*07/29/11 17:56*	*1*
2,4,6-Tribromophenol (Surr)	*32*	*Q*	*35 - 125*	*07/15/11 10:59*	*07/29/11 17:56*	*1*
Phenol-d5 (Surr)	*53*		*40 - 100*	*07/15/11 10:59*	*07/29/11 17:56*	*1*

Client Sample ID: LL1SB-641M-0103-SO

Date Collected: 07/06/11 09:40
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-44

Matrix: Solid
Percent Solids: 99.5

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:15	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:15	1
Anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:15	1
Benzo[a]anthracene	**19**		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:15	1
Benzo[a]pyrene	**19**		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:15	1
Benzo[b]fluoranthene	**30**	**M**	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:15	1
Benzo[g,h,i]perylene	**19**	**M**	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:15	1
Benzo[k]fluoranthene	**13**	**M**	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:15	1
Chrysene	**21**		6.7	1.1	ug/Kg	☼	07/15/11 10:59	07/29/11 18:15	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:15	1
Fluoranthene	**41**		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:15	1
Fluorene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:15	1
Indeno[1,2,3-cd]pyrene	**17**	**M**	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:15	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:15	1
Pyrene	**33**		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:15	1
Phenanthrene	**24**		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:15	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*45 - 105*	*07/15/11 10:59*	*07/29/11 18:15*	*1*
2-Fluorophenol (Surr)	*56*		*35 - 105*	*07/15/11 10:59*	*07/29/11 18:15*	*1*
Nitrobenzene-d5 (Surr)	*59*		*35 - 100*	*07/15/11 10:59*	*07/29/11 18:15*	*1*
Terphenyl-d14 (Surr)	*83*		*30 - 125*	*07/15/11 10:59*	*07/29/11 18:15*	*1*
2,4,6-Tribromophenol (Surr)	*31*	*Q*	*35 - 125*	*07/15/11 10:59*	*07/29/11 18:15*	*1*
Phenol-d5 (Surr)	*65*		*40 - 100*	*07/15/11 10:59*	*07/29/11 18:15*	*1*

Client Sample ID: LL1SB-642M-0101-SO

Date Collected: 07/06/11 10:40
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-45

Matrix: Solid
Percent Solids: 98.6

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	17	U	34	17	ug/Kg	☼	07/15/11 10:59	07/29/11 19:12	5
Acenaphthylene	17	U	34	17	ug/Kg	☼	07/15/11 10:59	07/29/11 19:12	5
Anthracene	**80**	**D**	34	17	ug/Kg	☼	07/15/11 10:59	07/29/11 19:12	5
Benzo[a]anthracene	**210**	**D**	34	17	ug/Kg	☼	07/15/11 10:59	07/29/11 19:12	5
Benzo[a]pyrene	**190**	**D**	34	17	ug/Kg	☼	07/15/11 10:59	07/29/11 19:12	5
Benzo[b]fluoranthene	**250**	**D M**	34	17	ug/Kg	☼	07/15/11 10:59	07/29/11 19:12	5
Benzo[g,h,i]perylene	**140**	**D**	34	17	ug/Kg	☼	07/15/11 10:59	07/29/11 19:12	5
Benzo[k]fluoranthene	**110**	**D M**	34	17	ug/Kg	☼	07/15/11 10:59	07/29/11 19:12	5
Chrysene	**230**	**D**	34	5.6	ug/Kg	☼	07/15/11 10:59	07/29/11 19:12	5
Dibenz(a,h)anthracene	17	U	34	17	ug/Kg	☼	07/15/11 10:59	07/29/11 19:12	5
Fluoranthene	**510**	**D**	34	17	ug/Kg	☼	07/15/11 10:59	07/29/11 19:12	5
Fluorene	**37**	**D**	34	17	ug/Kg	☼	07/15/11 10:59	07/29/11 19:12	5
Indeno[1,2,3-cd]pyrene	**120**	**D**	34	17	ug/Kg	☼	07/15/11 10:59	07/29/11 19:12	5
Naphthalene	17	U	34	17	ug/Kg	☼	07/15/11 10:59	07/29/11 19:12	5
Pyrene	**380**	**D**	34	17	ug/Kg	☼	07/15/11 10:59	07/29/11 19:12	5
Phenanthrene	**340**	**D**	34	17	ug/Kg	☼	07/15/11 10:59	07/29/11 19:12	5

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*45 - 105*	*07/15/11 10:59*	*07/29/11 19:12*	*5*

Client Sample ID: LL1SB-642M-0101-SO

Lab Sample ID: 240-1728-45

Date Collected: 07/06/11 10:40
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 98.6

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*56*		*35 - 105*	*07/15/11 10:59*	*07/29/11 19:12*	*5*
Nitrobenzene-d5 (Surr)	*68*		*35 - 100*	*07/15/11 10:59*	*07/29/11 19:12*	*5*
Terphenyl-d14 (Surr)	*76*		*30 - 125*	*07/15/11 10:59*	*07/29/11 19:12*	*5*
2,4,6-Tribromophenol (Surr)	*45*	*M*	*35 - 125*	*07/15/11 10:59*	*07/29/11 19:12*	*5*
Phenol-d5 (Surr)	*62*		*40 - 100*	*07/15/11 10:59*	*07/29/11 19:12*	*5*

Client Sample ID: LL1SB-642M-0102-SO

Lab Sample ID: 240-1728-46

Date Collected: 07/06/11 10:40
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 99.3

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:34	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:34	1
Anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:34	1
Benzo[a]anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:34	1
Benzo[a]pyrene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:34	1
Benzo[b]fluoranthene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:34	1
Benzo[g,h,i]perylene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:34	1
Benzo[k]fluoranthene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:34	1
Chrysene	3.3	U	6.7	1.1	ug/Kg	☼	07/15/11 10:59	07/29/11 18:34	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:34	1
Fluoranthene	**7.2**		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:34	1
Fluorene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:34	1
Indeno[1,2,3-cd]pyrene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:34	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:34	1
Pyrene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:34	1
Phenanthrene	**13**		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:34	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*46*	*M*	*45 - 105*	*07/15/11 10:59*	*07/29/11 18:34*	*1*
2-Fluorophenol (Surr)	*50*		*35 - 105*	*07/15/11 10:59*	*07/29/11 18:34*	*1*
Nitrobenzene-d5 (Surr)	*47*		*35 - 100*	*07/15/11 10:59*	*07/29/11 18:34*	*1*
Terphenyl-d14 (Surr)	*77*		*30 - 125*	*07/15/11 10:59*	*07/29/11 18:34*	*1*
2,4,6-Tribromophenol (Surr)	*39*		*35 - 125*	*07/15/11 10:59*	*07/29/11 18:34*	*1*
Phenol-d5 (Surr)	*51*		*40 - 100*	*07/15/11 10:59*	*07/29/11 18:34*	*1*

Client Sample ID: LL1SB-642M-0103-SO

Lab Sample ID: 240-1728-47

Date Collected: 07/06/11 10:40
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 99.7

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:53	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:53	1
Anthracene	**11**		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:53	1
Benzo[a]anthracene	**37**		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:53	1
Benzo[a]pyrene	**33**		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:53	1

Client Sample ID: LL1SB-642M-0103-SO

Date Collected: 07/06/11 10:40
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-47

Matrix: Solid
Percent Solids: 99.7

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	**39**	**M**	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:53	1
Benzo[g,h,i]perylene	**22**	**M**	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:53	1
Benzo[k]fluoranthene	**27**	**M**	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:53	1
Chrysene	**37**		6.7	1.1	ug/Kg	☼	07/15/11 10:59	07/29/11 18:53	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:53	1
Fluoranthene	**86**		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:53	1
Fluorene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:53	1
Indeno[1,2,3-cd]pyrene	**21**		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:53	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:53	1
Pyrene	**61**		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:53	1
Phenanthrene	**48**		6.7	3.3	ug/Kg	☼	07/15/11 10:59	07/29/11 18:53	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*58*	*M*	*45 - 105*	*07/15/11 10:59*	*07/29/11 18:53*	*1*
2-Fluorophenol (Surr)	*66*		*35 - 105*	*07/15/11 10:59*	*07/29/11 18:53*	*1*
Nitrobenzene-d5 (Surr)	*58*		*35 - 100*	*07/15/11 10:59*	*07/29/11 18:53*	*1*
Terphenyl-d14 (Surr)	*80*		*30 - 125*	*07/15/11 10:59*	*07/29/11 18:53*	*1*
2,4,6-Tribromophenol (Surr)	*48*		*35 - 125*	*07/15/11 10:59*	*07/29/11 18:53*	*1*
Phenol-d5 (Surr)	*65*		*40 - 100*	*07/15/11 10:59*	*07/29/11 18:53*	*1*

Client Sample ID: EQUIP RINSATE 2-1-11

Date Collected: 07/06/11 09:00
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-48

Matrix: Water

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.097	U	0.19	0.097	ug/L		07/07/11 10:27	08/05/11 16:26	1
Acenaphthylene	0.097	U	0.19	0.097	ug/L		07/07/11 10:27	08/05/11 16:26	1
Anthracene	0.097	U	0.19	0.097	ug/L		07/07/11 10:27	08/05/11 16:26	1
Benzo[a]anthracene	0.097	U	0.19	0.097	ug/L		07/07/11 10:27	08/05/11 16:26	1
Benzoic acid	9.7	U	24	9.7	ug/L		07/07/11 10:27	08/05/11 16:26	1
Benzo[b]fluoranthene	0.097	U	0.19	0.097	ug/L		07/07/11 10:27	08/05/11 16:26	1
Benzo[k]fluoranthene	0.097	U	0.19	0.097	ug/L		07/07/11 10:27	08/05/11 16:26	1
Benzyl alcohol	0.78	U	4.9	0.37	ug/L		07/07/11 10:27	08/05/11 16:26	1
Bis(2-chloroethoxy)methane	0.78	U	0.97	0.31	ug/L		07/07/11 10:27	08/05/11 16:26	1
Bis(2-chloroethyl)ether	0.097	U	0.97	0.097	ug/L		07/07/11 10:27	08/05/11 16:26	1
4-Bromophenyl phenyl ether	0.78	U	1.9	0.78	ug/L		07/07/11 10:27	08/05/11 16:26	1
Butyl benzyl phthalate	0.78	U	0.97	0.78	ug/L		07/07/11 10:27	08/05/11 16:26	1
2,4-Dimethylphenol	0.78	U	1.9	0.78	ug/L		07/07/11 10:27	08/05/11 16:26	1
Dimethyl phthalate	0.78	U	0.97	0.28	ug/L		07/07/11 10:27	08/05/11 16:26	1
4,6-Dinitro-2-methylphenol	2.3	U	4.9	2.3	ug/L		07/07/11 10:27	08/05/11 16:26	1
2,4-Dinitrophenol	2.3	U	4.9	2.3	ug/L		07/07/11 10:27	08/05/11 16:26	1
2,4-Dinitrotoluene	0.78	U	4.9	0.26	ug/L		07/07/11 10:27	08/05/11 16:26	1
2,6-Dinitrotoluene	0.78	U	4.9	0.78	ug/L		07/07/11 10:27	08/05/11 16:26	1
Fluoranthene	0.097	U	0.19	0.097	ug/L		07/07/11 10:27	08/05/11 16:26	1
Fluorene	0.097	U	0.19	0.097	ug/L		07/07/11 10:27	08/05/11 16:26	1
Hexachlorobenzene	0.097	U	0.19	0.097	ug/L		07/07/11 10:27	08/05/11 16:26	1
Hexachlorobutadiene	0.78	U	0.97	0.26	ug/L		07/07/11 10:27	08/05/11 16:26	1
Hexachlorocyclopentadiene	0.78	U	9.7	0.78	ug/L		07/07/11 10:27	08/05/11 16:26	1
Hexachloroethane	0.78	U	0.97	0.78	ug/L		07/07/11 10:27	08/05/11 16:26	1

Client Sample ID: EQUIP RINSATE 2-1-11
Date Collected: 07/06/11 09:00
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-48
Matrix: Water

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	0.78	U	0.97	0.30	ug/L		07/07/11 10:27	08/05/11 16:26	1
N-Nitrosodi-n-propylamine	0.78	U	0.97	0.78	ug/L		07/07/11 10:27	08/05/11 16:26	1
1,4-Dichlorobenzene	0.78	U	0.97	0.33	ug/L		07/07/11 10:27	08/05/11 16:26	1
2-Chloronaphthalene	0.097	U	0.97	0.097	ug/L		07/07/11 10:27	08/05/11 16:26	1
2-Chlorophenol	0.78	U	0.97	0.28	ug/L		07/07/11 10:27	08/05/11 16:26	1
4-Chlorophenyl phenyl ether	0.78	U	1.9	0.29	ug/L		07/07/11 10:27	08/05/11 16:26	1
Chrysene	0.097	U	0.19	0.097	ug/L		07/07/11 10:27	08/05/11 16:26	1
Dibenz(a,h)anthracene	0.097	U	0.19	0.097	ug/L		07/07/11 10:27	08/05/11 16:26	1
Dibenzofuran	0.097	U	0.97	0.097	ug/L		07/07/11 10:27	08/05/11 16:26	1
Benzo[g,h,i]perylene	0.097	U	0.19	0.097	ug/L		07/07/11 10:27	08/05/11 16:26	1
Benzo[a]pyrene	0.097	U Q	0.19	0.097	ug/L		07/07/11 10:27	08/05/11 16:26	1
Di-n-butyl phthalate	0.78	U	0.97	0.65	ug/L		07/07/11 10:27	08/05/11 16:26	1
1,2-Dichlorobenzene	0.78	U	0.97	0.28	ug/L		07/07/11 10:27	08/05/11 16:26	1
1,3-Dichlorobenzene	0.78	U	0.97	0.78	ug/L		07/07/11 10:27	08/05/11 16:26	1
3,3'-Dichlorobenzidine	0.78	U	4.9	0.36	ug/L		07/07/11 10:27	08/05/11 16:26	1
2,4-Dichlorophenol	0.78	U	1.9	0.78	ug/L		07/07/11 10:27	08/05/11 16:26	1
Diethyl phthalate	0.78	U	0.97	0.58	ug/L		07/07/11 10:27	08/05/11 16:26	1
Indeno[1,2,3-cd]pyrene	0.097	U	0.19	0.097	ug/L		07/07/11 10:27	08/05/11 16:26	1
Isophorone	0.78	U	0.97	0.26	ug/L		07/07/11 10:27	08/05/11 16:26	1
2-Methylnaphthalene	0.097	U	0.19	0.097	ug/L		07/07/11 10:27	08/05/11 16:26	1
2-Methylphenol	0.78	U	0.97	0.78	ug/L		07/07/11 10:27	08/05/11 16:26	1
Naphthalene	0.097	U	0.19	0.097	ug/L		07/07/11 10:27	08/05/11 16:26	1
2-Nitroaniline	0.78	U	1.9	0.78	ug/L		07/07/11 10:27	08/05/11 16:26	1
3-Nitroaniline	0.78	U	1.9	0.27	ug/L		07/07/11 10:27	08/05/11 16:26	1
4-Nitroaniline	0.78	U	1.9	0.78	ug/L		07/07/11 10:27	08/05/11 16:26	1
Nitrobenzene	0.097	U	0.97	0.039	ug/L		07/07/11 10:27	08/05/11 16:26	1
2-Nitrophenol	0.78	U	1.9	0.27	ug/L		07/07/11 10:27	08/05/11 16:26	1
4-Nitrophenol	2.3	U	4.9	2.3	ug/L		07/07/11 10:27	08/05/11 16:26	1
Pyrene	0.097	U	0.19	0.097	ug/L		07/07/11 10:27	08/05/11 16:26	1
Pentachlorophenol	2.3	U	4.9	2.3	ug/L		07/07/11 10:27	08/05/11 16:26	1
Phenanthrene	0.097	U	0.19	0.097	ug/L		07/07/11 10:27	08/05/11 16:26	1
1,2,4-Trichlorobenzene	0.78	U	0.97	0.27	ug/L		07/07/11 10:27	08/05/11 16:26	1
2,4,5-Trichlorophenol	0.78	U	4.9	0.29	ug/L		07/07/11 10:27	08/05/11 16:26	1
2,4,6-Trichlorophenol	0.78	U	4.9	0.78	ug/L		07/07/11 10:27	08/05/11 16:26	1
Phenol	0.78	U	0.97	0.58	ug/L		07/07/11 10:27	08/05/11 16:26	1
Carbazole	0.78	U	0.97	0.27	ug/L		07/07/11 10:27	08/05/11 16:26	1
4-Chloroaniline	0.78	U	1.9	0.78	ug/L		07/07/11 10:27	08/05/11 16:26	1
3 & 4 Methylphenol	0.78	U	1.9	0.78	ug/L		07/07/11 10:27	08/05/11 16:26	1
Bis(2-ethylhexyl) phthalate	**2.2**	**B**	1.9	0.78	ug/L		07/07/11 10:27	08/05/11 16:26	1
Di-n-octyl phthalate	0.78	U	0.97	0.78	ug/L		07/07/11 10:27	08/05/11 16:26	1
4-Chloro-3-methylphenol	0.78	U	1.9	0.78	ug/L		07/07/11 10:27	08/05/11 16:26	1
bis (2-Chloroisopropyl) ether	0.78	U	0.97	0.39	ug/L		07/07/11 10:27	08/05/11 16:26	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*37*	*Q*	*50 - 110*	*07/07/11 10:27*	*08/05/11 16:26*	*1*
2-Fluorophenol (Surr)	*37*		*20 - 110*	*07/07/11 10:27*	*08/05/11 16:26*	*1*
Nitrobenzene-d5 (Surr)	*41*		*40 - 110*	*07/07/11 10:27*	*08/05/11 16:26*	*1*
Terphenyl-d14 (Surr)	*47*	*Q*	*50 - 135*	*07/07/11 10:27*	*08/05/11 16:26*	*1*
2,4,6-Tribromophenol (Surr)	*31*	*Q*	*40 - 125*	*07/07/11 10:27*	*08/05/11 16:26*	*1*
Phenol-d5 (Surr)	*38*		*10 - 115*	*07/07/11 10:27*	*08/05/11 16:26*	*1*

Client Sample ID: EQUIP RINSATE 2-1-11

Date Collected: 07/06/11 09:00
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-48

Matrix: Water

Method: 8081/DOD - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0095	U	0.048	0.0091	ug/L		07/09/11 07:16	07/29/11 04:39	1
4,4'-DDE	0.0095	U	0.048	0.0092	ug/L		07/09/11 07:16	07/29/11 04:39	1
4,4'-DDT	0.029	U	0.048	0.015	ug/L		07/09/11 07:16	07/29/11 04:39	1
Aldrin	0.0095	U	0.048	0.0078	ug/L		07/09/11 07:16	07/29/11 04:39	1
alpha-BHC	0.0095	U	0.048	0.0067	ug/L		07/09/11 07:16	07/29/11 04:39	1
alpha-Chlordane	0.0095	U	0.048	0.013	ug/L		07/09/11 07:16	07/29/11 04:39	1
beta-BHC	0.0095	U	0.048	0.0080	ug/L		07/09/11 07:16	07/29/11 04:39	1
delta-BHC	0.0095	U	0.048	0.0083	ug/L		07/09/11 07:16	07/29/11 04:39	1
Dieldrin	0.0095	U	0.048	0.0071	ug/L		07/09/11 07:16	07/29/11 04:39	1
Endosulfan I	0.0095	U Q	0.048	0.012	ug/L		07/09/11 07:16	07/29/11 04:39	1
Endosulfan II	0.0095	U	0.048	0.011	ug/L		07/09/11 07:16	07/29/11 04:39	1
Endosulfan sulfate	0.0095	U	0.048	0.010	ug/L		07/09/11 07:16	07/29/11 04:39	1
Endrin	0.0095	U	0.048	0.010	ug/L		07/09/11 07:16	07/29/11 04:39	1
Endrin aldehyde	0.0095	U	0.048	0.010	ug/L		07/09/11 07:16	07/29/11 04:39	1
Endrin ketone	0.0095	U	0.048	0.0074	ug/L		07/09/11 07:16	07/29/11 04:39	1
gamma-BHC (Lindane)	0.0095	U	0.048	0.0061	ug/L		07/09/11 07:16	07/29/11 04:39	1
gamma-Chlordane	0.0095	U	0.048	0.011	ug/L		07/09/11 07:16	07/29/11 04:39	1
Heptachlor	0.0095	U	0.048	0.0076	ug/L		07/09/11 07:16	07/29/11 04:39	1
Heptachlor epoxide	0.0095	U	0.048	0.0068	ug/L		07/09/11 07:16	07/29/11 04:39	1
Methoxychlor	0.029	U	0.095	0.030	ug/L		07/09/11 07:16	07/29/11 04:39	1
Toxaphene	0.48	U	1.9	0.30	ug/L		07/09/11 07:16	07/29/11 04:39	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*117*		*30 - 135*	*07/09/11 07:16*	*07/29/11 04:39*	*1*
DCB Decachlorobiphenyl	*118*		*30 - 135*	*07/09/11 07:16*	*07/29/11 04:39*	*1*
Tetrachloro-m-xylene	*144*	*Q*	*25 - 140*	*07/09/11 07:16*	*07/29/11 04:39*	*1*
Tetrachloro-m-xylene	*119*		*25 - 140*	*07/09/11 07:16*	*07/29/11 04:39*	*1*

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.19	U	0.48	0.16	ug/L		07/09/11 07:10	07/15/11 04:38	1
Aroclor 1221	0.19	U	0.48	0.12	ug/L		07/09/11 07:10	07/15/11 04:38	1
Aroclor 1232	0.19	U	0.48	0.15	ug/L		07/09/11 07:10	07/15/11 04:38	1
Aroclor 1242	0.38	U	0.48	0.21	ug/L		07/09/11 07:10	07/15/11 04:38	1
Aroclor 1248	0.19	U	0.48	0.095	ug/L		07/09/11 07:10	07/15/11 04:38	1
Aroclor 1254	0.19	U	0.48	0.15	ug/L		07/09/11 07:10	07/15/11 04:38	1
Aroclor 1260	0.19	U	0.48	0.16	ug/L		07/09/11 07:10	07/15/11 04:38	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*40 - 140*	*07/09/11 07:10*	*07/15/11 04:38*	*1*
Tetrachloro-m-xylene	*82*		*40 - 140*	*07/09/11 07:10*	*07/15/11 04:38*	*1*
DCB Decachlorobiphenyl	*71*		*40 - 135*	*07/09/11 07:10*	*07/15/11 04:38*	*1*
DCB Decachlorobiphenyl	*67*		*40 - 135*	*07/09/11 07:10*	*07/15/11 04:38*	*1*

Method: 8330 (Modified) - Organic Compounds by UV/HPLC - Dissolved

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	6.0 U		20	2.4	ug/L		07/20/11 08:50	07/27/11 13:19	1

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroglycerin	0.50 U		0.64	0.33	ug/L		07/12/11 09:00	07/23/11 13:41	0.99

Client Sample ID: EQUIP RINSATE 2-1-11

Date Collected: 07/06/11 09:00
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-48

Matrix: Water

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A) (Continued)

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PETN	0.50 U		0.64	0.30	ug/L		07/12/11 09:00	07/23/11 13:41	0.99
2-Amino-4,6-dinitrotoluene	0.099 U		0.20	0.099	ug/L		07/12/11 09:00	07/23/11 13:41	0.99
4-Amino-2,6-dinitrotoluene	0.050 U		0.099	0.050	ug/L		07/12/11 09:00	07/23/11 13:41	0.99
1,3-Dinitrobenzene	0.050 U		0.099	0.050	ug/L		07/12/11 09:00	07/23/11 13:41	0.99
2,4-Dinitrotoluene	0.050 U		0.099	0.050	ug/L		07/12/11 09:00	07/23/11 13:41	0.99
2,6-Dinitrotoluene	0.050 U		0.099	0.050	ug/L		07/12/11 09:00	07/23/11 13:41	0.99
HMX	0.050 U		0.099	0.036	ug/L		07/12/11 09:00	07/23/11 13:41	0.99
Nitrobenzene	0.050 U		0.099	0.050	ug/L		07/12/11 09:00	07/23/11 13:41	0.99
2-Nitrotoluene	0.099 U		0.50	0.087	ug/L		07/12/11 09:00	07/23/11 13:41	0.99
3-Nitrotoluene	0.099 U		0.50	0.056	ug/L		07/12/11 09:00	07/23/11 13:41	0.99
4-Nitrotoluene	0.099 U		0.64	0.087	ug/L		07/12/11 09:00	07/23/11 13:41	0.99
RDX	0.050 U		0.099	0.036	ug/L		07/12/11 09:00	07/23/11 13:41	0.99
Tetryl	0.050 U		0.099	0.050	ug/L		07/12/11 09:00	07/23/11 13:41	0.99
1,3,5-Trinitrobenzene	0.050 U		0.099	0.030	ug/L		07/12/11 09:00	07/23/11 13:41	0.99
2,4,6-Trinitrotoluene	0.050 U		0.099	0.050	ug/L		07/12/11 09:00	07/23/11 13:41	0.99

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*92*		*79 - 111*	*07/12/11 09:00*	*07/23/11 13:41*	*0.99*

Method: 6020/DOD - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	60	U	60	20	ug/L		07/28/11 11:13	08/29/11 12:14	1
Antimony	**0.27**	**J**	2.0	0.21	ug/L		07/28/11 11:13	08/29/11 12:14	1
Arsenic	1.0	U	5.0	0.44	ug/L		07/28/11 11:13	08/29/11 12:14	1
Barium	4.0	U	5.0	1.6	ug/L		07/28/11 11:13	08/29/11 12:14	1
Beryllium	0.10	U	1.0	0.033	ug/L		07/28/11 11:13	08/29/11 12:14	1
Cadmium	**0.031**	**J**	2.0	0.023	ug/L		07/28/11 11:13	08/29/11 12:14	1
Calcium	1000	U	2000	540	ug/L		07/28/11 11:13	08/29/11 12:14	1
Chromium	1.5	U	2.0	0.53	ug/L		07/28/11 11:13	08/29/11 12:14	1
Cobalt	0.090	U	1.0	0.030	ug/L		07/28/11 11:13	08/29/11 12:14	1
Copper	4.0	U	4.0	1.4	ug/L		07/28/11 11:13	08/29/11 12:14	1
Iron	100	U	150	44	ug/L		07/28/11 11:13	08/29/11 12:14	1
Lead	0.50	U	1.0	0.20	ug/L		07/28/11 11:13	08/29/11 12:14	1
Magnesium	300	U	1000	120	ug/L		07/28/11 11:13	08/29/11 12:14	1
Manganese	3.0	U	5.0	1.1	ug/L		07/28/11 11:13	08/29/11 12:14	1
Nickel	1.5	U	5.0	0.62	ug/L		07/28/11 11:13	08/29/11 12:14	1
Potassium	50	U	1000	16	ug/L		07/28/11 11:13	08/29/11 12:14	1
Selenium	0.50	U	5.0	0.20	ug/L		07/28/11 11:13	08/29/11 12:14	1
Silver	0.25	U	1.0	0.080	ug/L		07/28/11 11:13	08/29/11 12:14	1
Sodium	400	U	1000	160	ug/L		07/28/11 11:13	08/29/11 12:14	1
Thallium	1.0	U	2.0	0.32	ug/L		07/28/11 11:13	08/29/11 12:14	1
Vanadium	1.5	U	5.0	0.51	ug/L		07/28/11 11:13	08/29/11 12:14	1
Zinc	20	U	40	8.8	ug/L		07/28/11 11:13	08/29/11 12:14	1

Method: 7470A/DOD - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.20	U	0.20	0.12	ug/L		07/27/11 14:30	07/29/11 10:54	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	0.0040	U	0.020	0.0020	mg/L			07/06/11 17:03	1

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1728-1

Client Sample ID: EQUIP RINSATE 2-1-11
Date Collected: 07/06/11 09:00
Date Received: 07/06/11 13:15

Lab Sample ID: 240-1728-48
Matrix: Water

Analyte	Result	Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	1.0 U		2.0	0.48	mg/L		07/20/11 08:00	07/21/11 13:33	1

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	BFB	DBFM
Lab Sample ID	Client Sample ID	(85-115)	(61-130)	(85-120)	(59-138)
240-1728-5	LL3SD-416V-0001-SD	74 Q	83	74 Q	67
240-1728-7	LL3SD-417V-0001-SD	76 Q	82	76 Q	68
240-1728-15	LL2SS-516V-0001-SO	77 Q	87	76 Q	71
240-1728-15 MS	LL2SS-516V-0001-SO	74 Q	82	74 Q	70
240-1728-19	LL2SS-517V-0001-SO	78 Q	87	78 Q	72
240-1728-21	L12SS-300V-0001-SO	83 Q	88	80 Q	75
240-1728-23	L12SS-301V-0001-SO	78 Q	80	78 Q	70
240-1728-25	LL1SB-644V-0101-SO	77 Q	87	74 Q	70
240-1728-27	LL1SB-644V-0102-SO	82 Q	92	79 Q	74
240-1728-29	LL1SB-644V-0103-SO	80 Q	90	79 Q	72
240-1728-31	LL1SB-645V-0101-SO	75 Q	84	74 Q	69
240-1728-33	LL1SB-645V-0102-SO	80 Q	89	79 Q	73
240-1728-35	LL1SB-645V-0103-SO	81 Q	92	82 Q	76
LCS 240-8123/2-A	Lab Control Sample	88	95	89	82
LCS 240-8134/2-A	Lab Control Sample	90	97	91	86
MB 240-8123/1-A	Method Blank	89	99	87	81
MB 240-8134/1-A	Method Blank	85	97	86	79

Surrogate Legend

TOL = Toluene-d8 (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	TPH	TBP	PHL
Lab Sample ID	Client Sample ID	(45-105)	(35-105)	(35-100)	(30-125)	(35-125)	(40-100)
240-1728-1	LL2SB-512M-0101-SO	48	53	39	66	37	57
240-1728-2	LL2SB-512M-0102-SO	33 Q	45	33 Q	45	36	47
240-1728-3	LL2SB-512M-0103-SO	51	66	54 M	65	48	64 M
240-1728-4	LL3SD-416M-0001-SD	52	62 M	56	73	45	68
240-1728-6	LL3SD-417M-0001-SD	46	59 M	47	61	40	62
240-1728-8	LL3SS-419M-0001-SO	50	61	50	65	33 Q	60
240-1728-8 MS	LL3SS-419M-0001-SO	63	72	60	75	64	75
240-1728-8 MSD	LL3SS-419M-0001-SO	54	65	52	66	59	66
240-1728-10	LL3SS-420M-0001-SO	54	62	51	78	39	67
240-1728-11	LL3SS-421M-0001-SO	52	59	45	64	52	66
240-1728-12	LL3SB-422M-0001-SO	62	69	59	76	51	63
240-1728-13	LL2SS-519M-0001-SO	56	56	56	69	45	52
240-1728-14	LL2SS-516M-0001-SO	45	45	36	61	39	54
240-1728-14 MS	LL2SS-516M-0001-SO	52	56	44	69	48	63
240-1728-14 MSD	LL2SS-516M-0001-SO	58	66	56	72	57	72
240-1728-18	LL2SS-517M-0001-SO	48	58	46	63	46	61
240-1728-20	L12SS-300M-0001-SO	59 M	66 M	53	74	58	67
240-1728-22	L12SS-301M-0001-SO	62	75 M	60	81	60 M	71
240-1728-24	LL1SB-644M-0101-SO	60	73	60	70	42	73
240-1728-26	LL1SB-644M-0102-SO	52	62	52	70	34 Q	66
240-1728-28	LL1SB-644M-0103-SO	47	58	46	66	42	59

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	TPH	TBP	PHL
Lab Sample ID	Client Sample ID	(45-105)	(35-105)	(35-100)	(30-125)	(35-125)	(40-100)
240-1728-30	LL1SB-645M-0101-SO	50	58	49	68	47	59
240-1728-32	LL1SB-645M-0102-SO	62	60	58	80	34 Q	73
240-1728-34	LL1SB-645M-0103-SO	45	66	49	68	55	65
240-1728-36	LL1SB-643M-0101-SO	48	59	49	60	51	58
240-1728-37	LL1SB-643M-0102-SO	53	61	50	65	51	63
240-1728-38	LL1SB-643M-0103-SO	63	69	60	75	53	72
240-1728-42	LL1SB-641M-0101-SO	63	59	58	73	36	64
240-1728-43	LL1SB-641M-0102-SO	53	49	52	77	32 Q	53
240-1728-44	LL1SB-641M-0103-SO	65	56	59	83	31 Q	65
240-1728-45	LL1SB-642M-0101-SO	70	56	68	76	45 M	62
240-1728-46	LL1SB-642M-0102-SO	46 M	50	47	77	39	51
240-1728-47	LL1SB-642M-0103-SO	58 M	66	58	80	48	65
LCS 240-8237/24-A	Lab Control Sample	44 Q	59	43	67	40	63
LCS 240-8437/14-A	Lab Control Sample	60	66	59	76	52	66
LCS 240-8593/16-A	Lab Control Sample	55	63	55	76	43	65
MB 240-8237/23-A	Method Blank	57	70	55	68	42	71
MB 240-8437/13-A	Method Blank	61	73	62	76	38	71
MB 240-8593/15-A	Method Blank	53	61	53	70	20 M Q	61

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
PHL = Phenol-d5 (Surr)

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	TPH	TBP	PHL
Lab Sample ID	Client Sample ID	(50-110)	(20-110)	(40-110)	(50-135)	(40-125)	(10-115)
240-1728-48	EQUIP RINSATE 2-1-11	37 Q	37	41	47 Q	31 Q	38
LCS 240-7492/4-A	Lab Control Sample	55	58	57	68	56	68
MB 240-7492/3-A	Method Blank	59	65	63	70	56	67

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
PHL = Phenol-d5 (Surr)

Surrogate Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1728-1

Method: 8081/DOD - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(55-130)	(55-130)	(70-125)	(70-125)
240-1728-4	LL3SD-416M-0001-SD	1624 Q	122	243 M Q	76
240-1728-6	LL3SD-417M-0001-SD	0 Q	0 Q	2363 Q	120
240-1728-14	LL2SS-516M-0001-SO	769 Q	194 Q	163 Q	90
240-1728-14 MS	LL2SS-516M-0001-SO	819 Q	50 Q	138 Q	102 M
240-1728-14 MSD	LL2SS-516M-0001-SO	738 Q	150 Q	134 Q	95
240-1728-18	LL2SS-517M-0001-SO	0 Q	0 Q	2725 Q	99
240-1728-20	L12SS-300M-0001-SO	0 Q	0 Q	2270 Q	122
240-1728-22	L12SS-301M-0001-SO	0 Q	0 Q	3050 Q	135 Q
240-1728-24	LL1SB-644M-0101-SO	112	100	395 Q	123
240-1728-26	LL1SB-644M-0102-SO	118	181 Q	163 Q	103
240-1728-28	LL1SB-644M-0103-SO	123	97	122	127 Q
240-1728-30	LL1SB-645M-0101-SO	134 Q	129	395 Q	136 Q
240-1728-32	LL1SB-645M-0102-SO	123	113	265 Q	102
240-1728-34	LL1SB-645M-0103-SO	556 Q	516 Q	1440 Q	424 Q
240-1728-34 MS	LL1SB-645M-0103-SO	0 Q	0 Q	376 Q	144 Q
240-1728-34 MSD	LL1SB-645M-0103-SO	0 Q	0 Q	2975 Q	178 Q
LCS 240-8260/14-A	Lab Control Sample	94	91	153 Q	97
LCS 240-8605/10-A	Lab Control Sample	76	77	69 Q	73
MB 240-8260/15-A	Method Blank	87	88	141 Q	98
MB 240-8605/9-A	Method Blank	81	88	91	89

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081/DOD - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(30-135)	(30-135)	(25-140)	(25-140)
240-1728-48	EQUIP RINSATE 2-1-11	117	118	144 Q	119
LCS 240-7787/4-A	Lab Control Sample	85	80	111	92
MB 240-7787/3-A	Method Blank	105	108	108	96

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(40-140)	(40-140)	(60-125)	(60-125)
240-1728-4	LL3SD-416M-0001-SD	65	64	322 Q	146 Q
240-1728-6	LL3SD-417M-0001-SD	68	67	208 Q	152 Q
240-1728-13	LL2SS-519M-0001-SO	95	100	135 Q	156 Q
240-1728-14	LL2SS-516M-0001-SO	86	91	200 Q	152 Q
240-1728-14 MS	LL2SS-516M-0001-SO	84	76	147 Q	78
240-1728-14 MSD	LL2SS-516M-0001-SO	69	69	142 Q	104

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(40-140)	(40-140)	(60-125)	(60-125)
240-1728-18	LL2SS-517M-0001-SO	42	42	106	129 Q
240-1728-20	L12SS-300M-0001-SO	123	90	327 Q	307 Q
240-1728-22	L12SS-301M-0001-SO	92	86	460 Q	257 Q
240-1728-24	LL1SB-644M-0101-SO	86	95	95	144 Q
240-1728-26	LL1SB-644M-0102-SO	0 Q	0 Q	0 Q	0 Q
240-1728-28	LL1SB-644M-0103-SO	0 Q	0 Q	0 Q	0 Q
240-1728-30	LL1SB-645M-0101-SO	98	91	107	108
240-1728-32	LL1SB-645M-0102-SO	0 Q	0 Q	0 Q	0 Q
240-1728-32 MS	LL1SB-645M-0102-SO	0 Q	0 Q	0 Q	0 Q
240-1728-32 MSD	LL1SB-645M-0102-SO	0 Q	0 Q	0 Q	0 Q
240-1728-34	LL1SB-645M-0103-SO	79	82	91	97
LCS 240-8270/15-A	Lab Control Sample	99	97	113	112
LCS 240-8599/11-A	Lab Control Sample	110	104	99	107
MB 240-8270/14-A	Method Blank	105	104	102	109
MB 240-8599/10-A	Method Blank	90	89	90	94

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(40-140)	(40-140)	(40-135)	(40-135)
240-1728-48	EQUIP RINSATE 2-1-11	76	82	71	67
LCS 240-7786/4-A	Lab Control Sample	75	77	31 Q	28 Q
MB 240-7786/3-A	Method Blank	73	74	75	71

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Matrix: Solid **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)
		DNT
Lab Sample ID	Client Sample ID	(78-108)
240-1728-4	LL3SD-416M-0001-SD	90
240-1728-6	LL3SD-417M-0001-SD	91
240-1728-14	LL2SS-516M-0001-SO	94
240-1728-14 MS	LL2SS-516M-0001-SO	93
240-1728-14 MSD	LL2SS-516M-0001-SO	93
240-1728-18	LL2SS-517M-0001-SO	92
240-1728-20	L12SS-300M-0001-SO	91
240-1728-22	L12SS-301M-0001-SO	90
240-1728-24	LL1SB-644M-0101-SO	93
240-1728-26	LL1SB-644M-0102-SO	92
240-1728-28	LL1SB-644M-0103-SO	91

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A) (Continued)

Matrix: Solid **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)								
		DNT								
Lab Sample ID	Client Sample ID	(78-108)								
240-1728-30	LL1SB-645M-0101-SO	94								
240-1728-32	LL1SB-645M-0102-SO	92								
240-1728-34	LL1SB-645M-0103-SO	93								
240-1728-39	LL1SB-640M-0101-SO	91								
240-1728-40	LL1SB-640M-0102-SO	92								
240-1728-41	LL1SB-640M-0103-SO	93								
G1G150000123B	Method Blank	93								
G1G150000123C	Lab Control Sample	94								

Surrogate Legend

DNT = 3,4-Dinitrotoluene

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Matrix: Water **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)								
		DNT								
Lab Sample ID	Client Sample ID	(79-111)								
240-1728-48	EQUIP RINSATE 2-1-11	92								
G1G120000068B	Method Blank	93								
G1G120000068C	Lab Control Sample	95								

Surrogate Legend

DNT = 3,4-Dinitrotoluene

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-8123/1-A
Matrix: Solid
Analysis Batch: 8086

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8123

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	10	U	250	21	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
1,1,2,2-Tetrachloroethane	25	U	250	8.9	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
1,1,2-Trichloroethane	25	U	250	12	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
1,1-Dichloroethane	25	U	250	17	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
1,1-Dichloroethene	25	U	250	18	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
1,2-Dichloroethane	25	U	250	10	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
1,2-Dichloroethene, Total	8.2	U	500	8.2	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
1,2-Dichloropropane	10	U	250	8.2	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
2-Butanone	100	U	1000	43	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
2-Hexanone	50	U	1000	20	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
4-Methyl-2-pentanone	100	U	1000	48	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
Acetone	200	U	1000	170	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
Benzene	25	U	250	12	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
Bromoform	25	U	250	19	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
Bromomethane	50	U	250	29	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
Carbon disulfide	25	U	250	12	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
Carbon tetrachloride	10	U	250	6.4	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
Chlorobenzene	10	U	250	6.4	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
Chloromethane	25	U	250	14	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
cis-1,2-Dichloroethene	10	U	250	6.9	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
cis-1,3-Dichloropropene	10	U	250	7.9	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
Dibromochloromethane	25	U	250	12	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
Bromodichloromethane	25	U	250	9.9	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
Ethylbenzene	10	U	250	5.4	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
Methylene Chloride	98.0	J	250	77	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
Styrene	10	U	250	5.6	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
Tetrachloroethene	25	U	250	12	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
Toluene	25	U	250	17	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
trans-1,2-Dichloroethene	25	U	250	9.2	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
trans-1,3-Dichloropropene	25	U	250	20	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
Trichloroethene	25	U	250	9.7	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
Vinyl chloride	25	U	250	18	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
Xylenes (total)	30	U	500	8.1	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
Chloroform	25	U	250	8.8	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
Bromochloromethane	25	U	250	13	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
1,2-Dibromoethane	25	U	250	10	ug/Kg		07/12/11 14:55	07/12/11 18:25	1
Chloroethane	100	U	250	61	ug/Kg		07/12/11 14:55	07/12/11 18:25	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*85 - 115*	*07/12/11 14:55*	*07/12/11 18:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*61 - 130*	*07/12/11 14:55*	*07/12/11 18:25*	*1*
4-Bromofluorobenzene (Surr)	*87*		*85 - 120*	*07/12/11 14:55*	*07/12/11 18:25*	*1*
Dibromofluoromethane (Surr)	*81*		*59 - 138*	*07/12/11 14:55*	*07/12/11 18:25*	*1*

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-8123/2-A
Matrix: Solid
Analysis Batch: 8086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1-Trichloroethane	500	426		ug/Kg		85	70 - 135
1,1,2,2-Tetrachloroethane	500	545		ug/Kg		109	55 - 130
1,1,2-Trichloroethane	500	535		ug/Kg		107	60 - 125
1,1-Dichloroethane	500	465		ug/Kg		93	75 - 125
1,1-Dichloroethene	500	462		ug/Kg		92	65 - 135
1,2-Dichloroethane	500	520		ug/Kg		104	70 - 135
1,2-Dichloropropane	500	500		ug/Kg		100	70 - 120
2-Butanone	1000	1090		ug/Kg		109	30 - 160
2-Hexanone	1000	1060		ug/Kg		106	45 - 145
4-Methyl-2-pentanone	1000	1020		ug/Kg		102	45 - 145
Acetone	1000	1090		ug/Kg		109	20 - 160
Benzene	500	496		ug/Kg		99	75 - 125
Bromoform	500	515		ug/Kg		103	55 - 135
Bromomethane	500	372		ug/Kg		74	30 - 160
Carbon disulfide	500	301		ug/Kg		60	45 - 160
Carbon tetrachloride	500	390		ug/Kg		78	65 - 135
Chlorobenzene	500	479		ug/Kg		96	75 - 125
Chloromethane	500	374		ug/Kg		75	50 - 130
cis-1,2-Dichloroethene	500	437		ug/Kg		87	65 - 125
cis-1,3-Dichloropropene	500	385		ug/Kg		77	70 - 125
Dibromochloromethane	500	424		ug/Kg		85	65 - 130
Bromodichloromethane	500	403		ug/Kg		81	70 - 130
Ethylbenzene	500	463		ug/Kg		93	75 - 125
Methylene Chloride	500	520		ug/Kg		104	55 - 140
m-Xylene & p-Xylene	1000	930		ug/Kg		93	80 - 125
o-Xylene	500	454		ug/Kg		91	75 - 125
Styrene	500	431		ug/Kg		86	75 - 125
Tetrachloroethene	500	483		ug/Kg		97	65 - 140
Toluene	500	490		ug/Kg		98	70 - 125
trans-1,2-Dichloroethene	500	434		ug/Kg		87	65 - 135
trans-1,3-Dichloropropene	500	392		ug/Kg		78	65 - 125
Trichloroethene	500	476		ug/Kg		95	75 - 125
Vinyl chloride	500	384		ug/Kg		77	60 - 125
Chloroform	500	481		ug/Kg		96	70 - 125
Bromochloromethane	500	480		ug/Kg		96	70 - 125
Chloroethane	500	297		ug/Kg		59	40 - 155

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*88*		*85 - 115*
1,2-Dichloroethane-d4 (Surr)	*95*		*61 - 130*
4-Bromofluorobenzene (Surr)	*89*		*85 - 120*
Dibromofluoromethane (Surr)	*82*		*59 - 138*

Lab Sample ID: MB 240-8134/1-A
Matrix: Solid
Analysis Batch: 8086

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8134

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	10	U	250	21	ug/Kg		07/12/11 15:40	07/12/11 21:16	1

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-8134/1-A
Matrix: Solid
Analysis Batch: 8086

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8134

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	25	U	250	8.9	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
1,1,2-Trichloroethane	25	U	250	12	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
1,1-Dichloroethane	25	U	250	17	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
1,1-Dichloroethene	25	U	250	18	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
1,2-Dichloroethane	25	U	250	10	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
1,2-Dichloroethene, Total	8.2	U	500	8.2	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
1,2-Dichloropropane	10	U	250	8.2	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
2-Butanone	100	U	1000	43	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
2-Hexanone	50	U	1000	20	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
4-Methyl-2-pentanone	100	U	1000	48	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
Acetone	200	U	1000	170	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
Benzene	25	U	250	12	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
Bromoform	25	U	250	19	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
Bromomethane	50	U	250	29	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
Carbon disulfide	25	U	250	12	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
Carbon tetrachloride	10	U	250	6.4	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
Chlorobenzene	10	U	250	6.4	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
Chloromethane	25	U	250	14	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
cis-1,2-Dichloroethene	10	U	250	6.9	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
cis-1,3-Dichloropropene	10	U	250	7.9	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
Dibromochloromethane	25	U	250	12	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
Bromodichloromethane	25	U	250	9.9	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
Ethylbenzene	10	U	250	5.4	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
Methylene Chloride	90.5	J	250	77	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
Styrene	10	U	250	5.6	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
Tetrachloroethene	25	U	250	12	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
Toluene	25	U	250	17	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
trans-1,2-Dichloroethene	25	U	250	9.2	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
trans-1,3-Dichloropropene	25	U	250	20	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
Trichloroethene	25	U	250	9.7	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
Vinyl chloride	25	U	250	18	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
Xylenes (total)	30	U	500	8.1	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
Chloroform	25	U	250	8.8	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
Bromochloromethane	25	U	250	13	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
1,2-Dibromoethane	25	U	250	10	ug/Kg		07/12/11 15:40	07/12/11 21:16	1
Chloroethane	100	U	250	61	ug/Kg		07/12/11 15:40	07/12/11 21:16	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*85*		*85 - 115*	*07/12/11 15:40*	*07/12/11 21:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*61 - 130*	*07/12/11 15:40*	*07/12/11 21:16*	*1*
4-Bromofluorobenzene (Surr)	*86*		*85 - 120*	*07/12/11 15:40*	*07/12/11 21:16*	*1*
Dibromofluoromethane (Surr)	*79*		*59 - 138*	*07/12/11 15:40*	*07/12/11 21:16*	*1*

Lab Sample ID: LCS 240-8134/2-A
Matrix: Solid
Analysis Batch: 8086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8134

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
1,1,1-Trichloroethane			500	437		ug/Kg		87	70 - 135		

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-8134/2-A
Matrix: Solid
Analysis Batch: 8086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8134

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,2,2-Tetrachloroethane	500	520		ug/Kg		104	55 - 130
1,1,2-Trichloroethane	500	488		ug/Kg		98	60 - 125
1,1-Dichloroethane	500	473		ug/Kg		95	75 - 125
1,1-Dichloroethene	500	472		ug/Kg		94	65 - 135
1,2-Dichloroethane	500	488		ug/Kg		98	70 - 135
1,2-Dichloropropane	500	505		ug/Kg		101	70 - 120
2-Butanone	1000	975	J	ug/Kg		98	30 - 160
2-Hexanone	1000	895	J	ug/Kg		90	45 - 145
4-Methyl-2-pentanone	1000	880	J	ug/Kg		88	45 - 145
Acetone	1000	885	J	ug/Kg		89	20 - 160
Benzene	500	490		ug/Kg		98	75 - 125
Bromoform	500	485		ug/Kg		97	55 - 135
Bromomethane	500	349		ug/Kg		70	30 - 160
Carbon disulfide	500	309		ug/Kg		62	45 - 160
Carbon tetrachloride	500	392		ug/Kg		78	65 - 135
Chlorobenzene	500	467		ug/Kg		93	75 - 125
Chloromethane	500	343		ug/Kg		69	50 - 130
cis-1,2-Dichloroethene	500	443		ug/Kg		89	65 - 125
cis-1,3-Dichloropropene	500	370		ug/Kg		74	70 - 125
Dibromochloromethane	500	416		ug/Kg		83	65 - 130
Bromodichloromethane	500	391		ug/Kg		78	70 - 130
Ethylbenzene	500	448		ug/Kg		90	75 - 125
Methylene Chloride	500	600		ug/Kg		120	55 - 140
m-Xylene & p-Xylene	1000	895		ug/Kg		90	80 - 125
o-Xylene	500	454		ug/Kg		91	75 - 125
Styrene	500	417		ug/Kg		83	75 - 125
Tetrachloroethene	500	440		ug/Kg		88	65 - 140
Toluene	500	473		ug/Kg		95	70 - 125
trans-1,2-Dichloroethene	500	442		ug/Kg		88	65 - 135
trans-1,3-Dichloropropene	500	374		ug/Kg		75	65 - 125
Trichloroethene	500	464		ug/Kg		93	75 - 125
Vinyl chloride	500	370		ug/Kg		74	60 - 125
Chloroform	500	477		ug/Kg		95	70 - 125
Bromochloromethane	500	452		ug/Kg		90	70 - 125
Chloroethane	500	339		ug/Kg		68	40 - 155

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*85 - 115*
1,2-Dichloroethane-d4 (Surr)	*97*		*61 - 130*
4-Bromofluorobenzene (Surr)	*91*		*85 - 120*
Dibromofluoromethane (Surr)	*86*		*59 - 138*

Lab Sample ID: 240-1728-15 MS
Matrix: Solid
Analysis Batch: 8086

Client Sample ID: LL2SS-516V-0001-SO
Prep Type: Total/NA
Prep Batch: 8134

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1-Trichloroethane	9.2	U	430	325		ug/Kg	☼	76	70 - 135
1,1,2,2-Tetrachloroethane	23	U	430	357		ug/Kg	☼	83	55 - 130

Method: 8260B/DoD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-1728-15 MS
Matrix: Solid
Analysis Batch: 8086

Client Sample ID: LL2SS-516V-0001-SO
Prep Type: Total/NA
Prep Batch: 8134

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,2-Trichloroethane	23	U	430	377		ug/Kg	☼	88	60 - 125
1,1-Dichloroethane	23	U	430	353		ug/Kg	☼	82	75 - 125
1,1-Dichloroethene	23	U	430	327		ug/Kg	☼	76	65 - 135
1,2-Dichloroethane	23	U	430	366		ug/Kg	☼	85	70 - 135
1,2-Dichloropropane	9.2	U	430	365		ug/Kg	☼	85	70 - 120
2-Butanone	92	U	859	782	J	ug/Kg	☼	91	30 - 160
2-Hexanone	46	U	859	670	J	ug/Kg	☼	78	45 - 145
4-Methyl-2-pentanone	92	U	859	670	J	ug/Kg	☼	78	45 - 145
Acetone	180	U	859	666	J	ug/Kg	☼	77	20 - 160
Benzene	23	U	430	367		ug/Kg	☼	85	75 - 125
Bromoform	23	U	430	386		ug/Kg	☼	90	55 - 135
Bromomethane	46	U	430	250		ug/Kg	☼	58	30 - 160
Carbon disulfide	23	U	430	217		ug/Kg	☼	50	45 - 160
Carbon tetrachloride	9.2	U	430	293		ug/Kg	☼	68	65 - 135
Chlorobenzene	9.2	U	430	344		ug/Kg	☼	80	75 - 125
Chloromethane	23	U	430	243		ug/Kg	☼	57	50 - 130
cis-1,2-Dichloroethene	9.2	U	430	332		ug/Kg	☼	77	65 - 125
cis-1,3-Dichloropropene	9.2	U J	430	282	J	ug/Kg	☼	66	70 - 125
Dibromochloromethane	23	U	430	327		ug/Kg	☼	76	65 - 130
Bromodichloromethane	23	U J	430	293	J	ug/Kg	☼	68	70 - 130
Ethylbenzene	9.2	U	430	333		ug/Kg	☼	77	75 - 125
Methylene Chloride	200	J	430	481		ug/Kg	☼	66	55 - 140
m-Xylene & p-Xylene	18		859	670	J	ug/Kg	☼	78	80 - 125
o-Xylene	9.2		430	334		ug/Kg	☼	78	75 - 125
Styrene	9.2	U J	430	307	J	ug/Kg	☼	71	75 - 125
Tetrachloroethene	23	U	430	342		ug/Kg	☼	80	65 - 140
Toluene	23	U	430	354		ug/Kg	☼	82	70 - 125
trans-1,2-Dichloroethene	23	U	430	322		ug/Kg	☼	75	65 - 135
trans-1,3-Dichloropropene	23	U J	430	263	J	ug/Kg	☼	61	65 - 125
Trichloroethene	23	U	430	359		ug/Kg	☼	83	75 - 125
Vinyl chloride	23	U J	430	248	J	ug/Kg	☼	58	60 - 125
Chloroform	23	U	430	353		ug/Kg	☼	82	70 - 125
Bromochloromethane	23	U	430	342		ug/Kg	☼	80	70 - 125
Chloroethane	92	U	430	287		ug/Kg	☼	67	40 - 155

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*74*	*Q*	*85 - 115*
1,2-Dichloroethane-d4 (Surr)	*82*		*61 - 130*
4-Bromofluorobenzene (Surr)	*74*	*Q*	*85 - 120*
Dibromofluoromethane (Surr)	*70*		*59 - 138*

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-7492/3-A
Matrix: Water
Analysis Batch: 11019

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7492

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-7492/3-A
Matrix: Water
Analysis Batch: 11019

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7492

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Anthracene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Benzo[a]anthracene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Benzoic acid	10	U	25	10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Benzo[b]fluoranthene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Benzo[k]fluoranthene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Benzyl alcohol	0.80	U	5.0	0.38	ug/L		07/07/11 10:27	08/05/11 12:21	1
Bis(2-chloroethoxy)methane	0.80	U	1.0	0.32	ug/L		07/07/11 10:27	08/05/11 12:21	1
Bis(2-chloroethyl)ether	0.10	U	1.0	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
4-Bromophenyl phenyl ether	0.80	U	2.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
Butyl benzyl phthalate	0.80	U	1.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
2,4-Dimethylphenol	0.80	U	2.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
Dimethyl phthalate	0.80	U	1.0	0.29	ug/L		07/07/11 10:27	08/05/11 12:21	1
4,6-Dinitro-2-methylphenol	2.4	U	5.0	2.4	ug/L		07/07/11 10:27	08/05/11 12:21	1
2,4-Dinitrophenol	2.4	U	5.0	2.4	ug/L		07/07/11 10:27	08/05/11 12:21	1
2,4-Dinitrotoluene	0.80	U	5.0	0.27	ug/L		07/07/11 10:27	08/05/11 12:21	1
2,6-Dinitrotoluene	0.80	U	5.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
Fluoranthene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Fluorene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Hexachlorobenzene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Hexachlorobutadiene	0.80	U	1.0	0.27	ug/L		07/07/11 10:27	08/05/11 12:21	1
Hexachlorocyclopentadiene	0.80	U	10	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
Hexachloroethane	0.80	U	1.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
N-Nitrosodiphenylamine	0.80	U	1.0	0.31	ug/L		07/07/11 10:27	08/05/11 12:21	1
N-Nitrosodi-n-propylamine	0.80	U	1.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
1,4-Dichlorobenzene	0.80	U	1.0	0.34	ug/L		07/07/11 10:27	08/05/11 12:21	1
2-Chloronaphthalene	0.10	U	1.0	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
2-Chlorophenol	0.80	U	1.0	0.29	ug/L		07/07/11 10:27	08/05/11 12:21	1
4-Chlorophenyl phenyl ether	0.80	U	2.0	0.30	ug/L		07/07/11 10:27	08/05/11 12:21	1
Chrysene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Dibenz(a,h)anthracene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Dibenzofuran	0.10	U	1.0	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Benzo[g,h,i]perylene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Benzo[a]pyrene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Di-n-butyl phthalate	0.80	U	1.0	0.67	ug/L		07/07/11 10:27	08/05/11 12:21	1
1,2-Dichlorobenzene	0.80	U	1.0	0.29	ug/L		07/07/11 10:27	08/05/11 12:21	1
1,3-Dichlorobenzene	0.80	U	1.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
3,3'-Dichlorobenzidine	0.80	U	5.0	0.37	ug/L		07/07/11 10:27	08/05/11 12:21	1
2,4-Dichlorophenol	0.80	U	2.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
Diethyl phthalate	0.80	U	1.0	0.60	ug/L		07/07/11 10:27	08/05/11 12:21	1
Indeno[1,2,3-cd]pyrene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Isophorone	0.80	U	1.0	0.27	ug/L		07/07/11 10:27	08/05/11 12:21	1
2-Methylnaphthalene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
2-Methylphenol	0.80	U	1.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
Naphthalene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
2-Nitroaniline	0.80	U	2.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
3-Nitroaniline	0.80	U	2.0	0.28	ug/L		07/07/11 10:27	08/05/11 12:21	1
4-Nitroaniline	0.80	U	2.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
Nitrobenzene	0.10	U	1.0	0.040	ug/L		07/07/11 10:27	08/05/11 12:21	1
2-Nitrophenol	0.80	U	2.0	0.28	ug/L		07/07/11 10:27	08/05/11 12:21	1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-7492/3-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 11019 — **Prep Batch: 7492**

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	2.4	U	5.0	2.4	ug/L		07/07/11 10:27	08/05/11 12:21	1
Pyrene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
Pentachlorophenol	2.4	U	5.0	2.4	ug/L		07/07/11 10:27	08/05/11 12:21	1
Phenanthrene	0.10	U	0.20	0.10	ug/L		07/07/11 10:27	08/05/11 12:21	1
1,2,4-Trichlorobenzene	0.80	U	1.0	0.28	ug/L		07/07/11 10:27	08/05/11 12:21	1
2,4,5-Trichlorophenol	0.80	U	5.0	0.30	ug/L		07/07/11 10:27	08/05/11 12:21	1
2,4,6-Trichlorophenol	0.80	U	5.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
Phenol	0.80	U	1.0	0.60	ug/L		07/07/11 10:27	08/05/11 12:21	1
Carbazole	0.80	U	1.0	0.28	ug/L		07/07/11 10:27	08/05/11 12:21	1
4-Chloroaniline	0.80	U	2.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
3 & 4 Methylphenol	0.80	U	2.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
Bis(2-ethylhexyl) phthalate	2.50		2.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
Di-n-octyl phthalate	0.80	U	1.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
4-Chloro-3-methylphenol	0.80	U	2.0	0.80	ug/L		07/07/11 10:27	08/05/11 12:21	1
bis (2-Chloroisopropyl) ether	0.80	U	1.0	0.40	ug/L		07/07/11 10:27	08/05/11 12:21	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*		*50 - 110*	*07/07/11 10:27*	*08/05/11 12:21*	*1*
2-Fluorophenol (Surr)	*65*		*20 - 110*	*07/07/11 10:27*	*08/05/11 12:21*	*1*
Nitrobenzene-d5 (Surr)	*63*		*40 - 110*	*07/07/11 10:27*	*08/05/11 12:21*	*1*
Terphenyl-d14 (Surr)	*70*		*50 - 135*	*07/07/11 10:27*	*08/05/11 12:21*	*1*
2,4,6-Tribromophenol (Surr)	*56*		*40 - 125*	*07/07/11 10:27*	*08/05/11 12:21*	*1*
Phenol-d5 (Surr)	*67*		*10 - 115*	*07/07/11 10:27*	*08/05/11 12:21*	*1*

Lab Sample ID: LCS 240-7492/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 11019 — **Prep Batch: 7492**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	20.0	11.0		ug/L		55	45 - 110
Acenaphthylene	20.0	11.3		ug/L		57	50 - 105
Anthracene	20.0	11.9		ug/L		59	55 - 110
Benzo[a]anthracene	20.0	11.7		ug/L		59	55 - 110
Benzoic acid	20.0	10	U M	ug/L		34	0 - 125
Benzo[b]fluoranthene	20.0	11.7		ug/L		59	45 - 120
Benzo[k]fluoranthene	20.0	12.3		ug/L		62	45 - 125
Benzyl alcohol	20.0	13.0		ug/L		65	30 - 110
Bis(2-chloroethoxy)methane	20.0	12.2		ug/L		61	45 - 105
Bis(2-chloroethyl)ether	20.0	13.2		ug/L		66	35 - 110
4-Bromophenyl phenyl ether	20.0	12.0		ug/L		60	50 - 115
Butyl benzyl phthalate	20.0	12.9		ug/L		65	45 - 115
2,4-Dimethylphenol	20.0	8.60		ug/L		43	30 - 110
Dimethyl phthalate	20.0	12.2		ug/L		61	25 - 125
4,6-Dinitro-2-methylphenol	20.0	11.5		ug/L		57	40 - 130
2,4-Dinitrophenol	20.0	7.12		ug/L		36	15 - 140
2,4-Dinitrotoluene	20.0	13.1		ug/L		65	50 - 120
2,6-Dinitrotoluene	20.0	13.5		ug/L		67	50 - 115
Fluoranthene	20.0	12.4		ug/L		62	55 - 115
Fluorene	20.0	11.6		ug/L		58	50 - 110

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-7492/4-A
Matrix: Water
Analysis Batch: 11019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7492

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Hexachlorobenzene	20.0	11.7		ug/L		59	50 - 110
Hexachlorobutadiene	20.0	8.96		ug/L		45	25 - 105
Hexachloroethane	20.0	9.70		ug/L		49	30 - 95
N-Nitrosodiphenylamine	20.0	12.0		ug/L		60	50 - 110
N-Nitrosodi-n-propylamine	20.0	14.1		ug/L		71	35 - 130
1,4-Dichlorobenzene	20.0	10.5	M	ug/L		53	30 - 100
2-Chloronaphthalene	20.0	11.1		ug/L		56	50 - 105
2-Chlorophenol	20.0	11.0		ug/L		55	35 - 105
4-Chlorophenyl phenyl ether	20.0	12.0		ug/L		60	50 - 110
Chrysene	20.0	11.7		ug/L		59	55 - 110
Dibenz(a,h)anthracene	20.0	12.9		ug/L		65	40 - 125
Dibenzofuran	20.0	11.7		ug/L		59	55 - 105
Benzo[g,h,i]perylene	20.0	12.8		ug/L		64	40 - 125
Benzo[a]pyrene	20.0	10.2	Q	ug/L		51	55 - 110
Di-n-butyl phthalate	20.0	12.7		ug/L		63	55 - 115
1,2-Dichlorobenzene	20.0	10.4		ug/L		52	35 - 100
1,3-Dichlorobenzene	20.0	9.52		ug/L		48	30 - 100
3,3'-Dichlorobenzidine	20.0	8.10		ug/L		41	20 - 110
2,4-Dichlorophenol	20.0	11.1		ug/L		56	50 - 105
Diethyl phthalate	20.0	11.8		ug/L		59	40 - 120
Indeno[1,2,3-cd]pyrene	20.0	12.9		ug/L		64	45 - 125
Isophorone	20.0	12.2		ug/L		61	50 - 110
2-Methylnaphthalene	20.0	13.5		ug/L		68	45 - 105
2-Methylphenol	20.0	14.0		ug/L		70	40 - 110
Naphthalene	20.0	10.8		ug/L		54	40 - 100
2-Nitroaniline	20.0	12.7		ug/L		63	50 - 115
3-Nitroaniline	20.0	12.6		ug/L		63	20 - 125
4-Nitroaniline	20.0	11.6		ug/L		58	35 - 120
Nitrobenzene	20.0	11.5		ug/L		58	45 - 110
2-Nitrophenol	20.0	11.6		ug/L		58	40 - 115
4-Nitrophenol	20.0	11.6		ug/L		58	0 - 125
Pyrene	20.0	11.7		ug/L		58	50 - 130
Pentachlorophenol	20.0	8.12		ug/L		41	40 - 115
Phenanthrene	20.0	11.7		ug/L		59	50 - 115
1,2,4-Trichlorobenzene	20.0	9.76		ug/L		49	35 - 105
2,4,5-Trichlorophenol	20.0	11.4		ug/L		57	50 - 110
2,4,6-Trichlorophenol	20.0	10.8		ug/L		54	50 - 115
Phenol	20.0	12.5		ug/L		63	0 - 115
Carbazole	20.0	12.4		ug/L		62	50 - 115
4-Chloroaniline	20.0	10.8		ug/L		54	15 - 110
3 & 4 Methylphenol	40.0	27.2		ug/L		68	30 - 110
Bis(2-ethylhexyl) phthalate	20.0	14.0		ug/L		70	40 - 125
Di-n-octyl phthalate	20.0	12.6		ug/L		63	35 - 135
4-Chloro-3-methylphenol	20.0	12.8		ug/L		64	45 - 110
bis (2-Chloroisopropyl) ether	20.0	14.2		ug/L		71	25 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*55*		*50 - 110*
2-Fluorophenol (Surr)	*58*		*20 - 110*

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-7492/4-A
Matrix: Water
Analysis Batch: 11019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7492

Surrogate	LCS % Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	57		40 - 110
Terphenyl-d14 (Surr)	68		50 - 135
2,4,6-Tribromophenol (Surr)	56		40 - 125
Phenol-d5 (Surr)	68		10 - 115

Lab Sample ID: MB 240-8237/23-A
Matrix: Solid
Analysis Batch: 10479

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8237

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg		07/13/11 11:10	08/01/11 09:09	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg		07/13/11 11:10	08/01/11 09:09	1
Anthracene	3.3	U	6.7	3.3	ug/Kg		07/13/11 11:10	08/01/11 09:09	1
Benzo[a]anthracene	3.3	U	6.7	3.3	ug/Kg		07/13/11 11:10	08/01/11 09:09	1
Benzo[b]fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/13/11 11:10	08/01/11 09:09	1
Benzo[k]fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/13/11 11:10	08/01/11 09:09	1
Fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/13/11 11:10	08/01/11 09:09	1
Fluorene	3.3	U	6.7	3.3	ug/Kg		07/13/11 11:10	08/01/11 09:09	1
Chrysene	3.3	U	6.7	1.1	ug/Kg		07/13/11 11:10	08/01/11 09:09	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg		07/13/11 11:10	08/01/11 09:09	1
Benzo[g,h,i]perylene	3.3	U	6.7	3.3	ug/Kg		07/13/11 11:10	08/01/11 09:09	1
Benzo[a]pyrene	3.3	U	6.7	3.3	ug/Kg		07/13/11 11:10	08/01/11 09:09	1
Indeno[1,2,3-cd]pyrene	3.3	U	6.7	3.3	ug/Kg		07/13/11 11:10	08/01/11 09:09	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg		07/13/11 11:10	08/01/11 09:09	1
Pyrene	3.3	U	6.7	3.3	ug/Kg		07/13/11 11:10	08/01/11 09:09	1
Phenanthrene	3.3	U	6.7	3.3	ug/Kg		07/13/11 11:10	08/01/11 09:09	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	57		45 - 105	07/13/11 11:10	08/01/11 09:09	1
2-Fluorophenol (Surr)	70		35 - 105	07/13/11 11:10	08/01/11 09:09	1
Nitrobenzene-d5 (Surr)	55		35 - 100	07/13/11 11:10	08/01/11 09:09	1
Terphenyl-d14 (Surr)	68		30 - 125	07/13/11 11:10	08/01/11 09:09	1
2,4,6-Tribromophenol (Surr)	42		35 - 125	07/13/11 11:10	08/01/11 09:09	1
Phenol-d5 (Surr)	71		40 - 100	07/13/11 11:10	08/01/11 09:09	1

Lab Sample ID: LCS 240-8237/24-A
Matrix: Solid
Analysis Batch: 10479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8237

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	667	316		ug/Kg		47	45 - 110
Acenaphthylene	667	330		ug/Kg		49	45 - 105
Anthracene	667	375		ug/Kg		56	55 - 105
Benzo[a]anthracene	667	364		ug/Kg		55	50 - 110
Benzoic acid	667	330	U	ug/Kg		0	0 - 110
Benzo[b]fluoranthene	667	335		ug/Kg		50	45 - 115
Benzo[k]fluoranthene	667	444		ug/Kg		67	45 - 125
Benzyl alcohol	667	187	J M	ug/Kg		28	20 - 125
Bis(2-chloroethoxy)methane	667	364		ug/Kg		55	45 - 110

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-8237/24-A
Matrix: Solid
Analysis Batch: 10479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8237

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Bis(2-chloroethyl)ether	667	371		ug/Kg		56	40 - 105
4-Bromophenyl phenyl ether	667	372		ug/Kg		56	45 - 115
Butyl benzyl phthalate	667	423		ug/Kg		63	50 - 125
2,4-Dimethylphenol	667	345		ug/Kg		52	30 - 105
Dimethyl phthalate	667	389		ug/Kg		58	50 - 110
4,6-Dinitro-2-methylphenol	667	319		ug/Kg		48	30 - 135
2,4-Dinitrophenol	667	182	J	ug/Kg		27	15 - 130
2,4-Dinitrotoluene	667	415		ug/Kg		62	50 - 115
2,6-Dinitrotoluene	667	425		ug/Kg		64	50 - 110
Fluoranthene	667	395		ug/Kg		59	55 - 115
Fluorene	667	343		ug/Kg		51	50 - 110
Hexachlorobenzene	667	367		ug/Kg		55	45 - 120
Hexachlorobutadiene	667	245	Q	ug/Kg		37	40 - 115
Hexachloroethane	667	255		ug/Kg		38	35 - 110
N-Nitrosodiphenylamine	667	374		ug/Kg		56	50 - 115
N-Nitrosodi-n-propylamine	667	375		ug/Kg		56	40 - 115
1,4-Dichlorobenzene	667	266		ug/Kg		40	35 - 105
2-Chloronaphthalene	667	301		ug/Kg		45	45 - 105
2-Chlorophenol	667	372		ug/Kg		56	45 - 105
4-Chlorophenyl phenyl ether	667	361		ug/Kg		54	45 - 110
Chrysene	667	379		ug/Kg		57	55 - 110
Dibenz(a,h)anthracene	667	413		ug/Kg		62	40 - 125
Dibenzofuran	667	346		ug/Kg		52	50 - 105
Benzo[g,h,i]perylene	667	418		ug/Kg		63	40 - 125
Benzo[a]pyrene	667	346		ug/Kg		52	50 - 110
Di-n-butyl phthalate	667	412		ug/Kg		62	55 - 110
1,2-Dichlorobenzene	667	278	Q	ug/Kg		42	45 - 110
1,3-Dichlorobenzene	667	255	Q	ug/Kg		38	40 - 100
3,3'-Dichlorobenzidine	667	259		ug/Kg		39	10 - 130
2,4-Dichlorophenol	667	359		ug/Kg		54	45 - 110
Diethyl phthalate	667	398		ug/Kg		60	50 - 115
Indeno[1,2,3-cd]pyrene	667	420		ug/Kg		63	40 - 120
Isophorone	667	353		ug/Kg		53	45 - 110
2-Methylnaphthalene	667	354		ug/Kg		53	45 - 105
2-Methylphenol	667	463		ug/Kg		69	40 - 105
Naphthalene	667	279		ug/Kg		42	40 - 105
2-Nitroaniline	667	401		ug/Kg		60	45 - 120
3-Nitroaniline	667	383		ug/Kg		57	25 - 110
4-Nitroaniline	667	405		ug/Kg		61	35 - 115
Nitrobenzene	667	315		ug/Kg		47	40 - 115
2-Nitrophenol	667	334		ug/Kg		50	40 - 110
4-Nitrophenol	667	352		ug/Kg		53	15 - 140
Pyrene	667	379		ug/Kg		57	45 - 125
Pentachlorophenol	667	269		ug/Kg		40	25 - 120
Phenanthrene	667	368		ug/Kg		55	50 - 110
1,2,4-Trichlorobenzene	667	257	Q	ug/Kg		38	45 - 110
2,4,5-Trichlorophenol	667	325	Q	ug/Kg		49	50 - 110
2,4,6-Trichlorophenol	667	241	Q	ug/Kg		36	45 - 110
Phenol	667	415		ug/Kg		62	40 - 100
Carbazole	667	385		ug/Kg		58	45 - 115

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-8237/24-A
Matrix: Solid
Analysis Batch: 10479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8237

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4-Chloroaniline	667	315		ug/Kg		47	10 - 110
3 & 4 Methylphenol	1330	813		ug/Kg		61	40 - 105
Bis(2-ethylhexyl) phthalate	667	421		ug/Kg		63	45 - 125
Di-n-octyl phthalate	667	422		ug/Kg		63	40 - 130
4-Chloro-3-methylphenol	667	399		ug/Kg		60	45 - 115
bis (2-Chloroisopropyl) ether	667	319		ug/Kg		48	20 - 115

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*44*	*Q*	*45 - 105*
2-Fluorophenol (Surr)	*59*		*35 - 105*
Nitrobenzene-d5 (Surr)	*43*		*35 - 100*
Terphenyl-d14 (Surr)	*67*		*30 - 125*
2,4,6-Tribromophenol (Surr)	*40*		*35 - 125*
Phenol-d5 (Surr)	*63*		*40 - 100*

Lab Sample ID: 240-1728-8 MS
Matrix: Solid
Analysis Batch: 10479

Client Sample ID: LL3SS-419M-0001-SO
Prep Type: Total/NA
Prep Batch: 8237

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	100		673	462		ug/Kg	☼	53	45 - 110
Acenaphthylene	6.7	U	673	463		ug/Kg	☼	69	45 - 105
Anthracene	300	J	673	512	J	ug/Kg	☼	31	55 - 105
Benzo[a]anthracene	480	J	673	579	J	ug/Kg	☼	15	50 - 110
Benzo[a]pyrene	400	J	673	536	J	ug/Kg	☼	20	50 - 110
Benzo[b]fluoranthene	440	M J	673	584	J	ug/Kg	☼	21	45 - 115
Benzo[g,h,i]perylene	250	J	673	556		ug/Kg	☼	46	40 - 125
Benzo[k]fluoranthene	290	M J	673	551	J	ug/Kg	☼	39	45 - 125
Chrysene	470	J	673	588	J	ug/Kg	☼	17	55 - 110
Dibenz(a,h)anthracene	56		673	477		ug/Kg	☼	63	40 - 125
Fluoranthene	1200	J	673	796	J	ug/Kg	☼	-60	55 - 115
Fluorene	120	J	673	475		ug/Kg	☼	52	50 - 110
Indeno[1,2,3-cd]pyrene	220	J	673	553		ug/Kg	☼	49	40 - 120
Naphthalene	79		673	465		ug/Kg	☼	57	40 - 105
Pyrene	930	J	673	716	J	ug/Kg	☼	-32	45 - 125
Phenanthrene	990	J	673	673	J	ug/Kg	☼	-47	50 - 110

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*63*		*45 - 105*
2-Fluorophenol (Surr)	*72*		*35 - 105*
Nitrobenzene-d5 (Surr)	*60*		*35 - 100*
Terphenyl-d14 (Surr)	*75*		*30 - 125*
2,4,6-Tribromophenol (Surr)	*64*		*35 - 125*
Phenol-d5 (Surr)	*75*		*40 - 100*

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-1728-8 MSD
Matrix: Solid
Analysis Batch: 10479

Client Sample ID: LL3SS-419M-0001-SO
Prep Type: Total/NA
Prep Batch: 8237

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	100		673	416		ug/Kg	☼	47	45 - 110	10	30
Acenaphthylene	6.7	U	673	411		ug/Kg	☼	61	45 - 105	12	30
Anthracene	300	J	673	452	J	ug/Kg	☼	22	55 - 105	12	30
Benzo[a]anthracene	480	J	673	491	J	ug/Kg	☼	2	50 - 110	16	30
Benzo[a]pyrene	400	J	673	460	J	ug/Kg	☼	9	50 - 110	15	30
Benzo[b]fluoranthene	440	M J	673	504	J	ug/Kg	☼	9	45 - 115	15	30
Benzo[g,h,i]perylene	250	J	673	481	J	ug/Kg	☼	34	40 - 125	15	30
Benzo[k]fluoranthene	290	M J	673	487	J	ug/Kg	☼	29	45 - 125	12	30
Chrysene	470	J	673	506	J	ug/Kg	☼	5	55 - 110	15	30
Dibenz(a,h)anthracene	56		673	436		ug/Kg	☼	57	40 - 125	9	30
Fluoranthene	1200	J	673	662	J	ug/Kg	☼	-80	55 - 115	18	30
Fluorene	120	J	673	421	J	ug/Kg	☼	44	50 - 110	12	30
Indeno[1,2,3-cd]pyrene	220	J	673	487	J	ug/Kg	☼	39	40 - 120	13	30
Naphthalene	79		673	385		ug/Kg	☼	45	40 - 105	19	30
Pyrene	930	J	673	576	J	ug/Kg	☼	-53	45 - 125	22	30
Phenanthrene	990	J	673	549	J	ug/Kg	☼	-66	50 - 110	20	30

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*54*		*45 - 105*
2-Fluorophenol (Surr)	*65*		*35 - 105*
Nitrobenzene-d5 (Surr)	*52*		*35 - 100*
Terphenyl-d14 (Surr)	*66*		*30 - 125*
2,4,6-Tribromophenol (Surr)	*59*		*35 - 125*
Phenol-d5 (Surr)	*66*		*40 - 100*

Lab Sample ID: MB 240-8437/13-A
Matrix: Solid
Analysis Batch: 9528

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8437

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Anthracene	3.3	U	6.7	3.3	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Benzo[a]anthracene	3.3	U	6.7	3.3	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Benzoic acid	330	U	660	330	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Benzo[b]fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Benzo[k]fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Benzyl alcohol	27	U	330	21	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Bis(2-chloroethoxy)methane	27	U	100	22	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Bis(2-chloroethyl)ether	3.3	U	100	2.0	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
4-Bromophenyl phenyl ether	27	U	50	13	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Butyl benzyl phthalate	27	U	50	10	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
2,4-Dimethylphenol	80	U	150	20	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Dimethyl phthalate	27	U	50	17	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
4,6-Dinitro-2-methylphenol	80	U	150	80	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
2,4-Dinitrophenol	80	U	330	80	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
2,4-Dinitrotoluene	27	U	200	27	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
2,6-Dinitrotoluene	27	U	200	21	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/14/11 10:52	07/23/11 11:22	1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-8437/13-A
Matrix: Solid
Analysis Batch: 9528

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8437

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	3.3	U	6.7	3.3	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Hexachlorobenzene	3.3	U	6.7	2.1	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Hexachlorobutadiene	27	U	50	27	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Hexachlorocyclopentadiene	27	U	330	27	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Hexachloroethane	27	U	50	9.0	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
N-Nitrosodiphenylamine	27	U	50	21	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
N-Nitrosodi-n-propylamine	27	U	50	27	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
1,4-Dichlorobenzene	27	U	50	20	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
2-Chloronaphthalene	3.3	U	50	3.3	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
2-Chlorophenol	27	U	50	27	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
4-Chlorophenyl phenyl ether	27	U	50	13	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Chrysene	3.3	U	6.7	1.1	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Dibenzofuran	3.3	U	50	3.3	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Benzo[g,h,i]perylene	3.3	U	6.7	3.3	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Benzo[a]pyrene	3.3	U	6.7	3.3	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Di-n-butyl phthalate	27	U	50	15	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
1,2-Dichlorobenzene	27	U	50	9.7	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
1,3-Dichlorobenzene	27	U	50	11	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
3,3'-Dichlorobenzidine	80	U	100	18	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
2,4-Dichlorophenol	27	U	150	20	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Diethyl phthalate	27	U	50	16	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Indeno[1,2,3-cd]pyrene	3.3	U	6.7	3.3	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Isophorone	27	U	50	13	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
2-Methylnaphthalene	3.3	U	6.7	3.3	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
2-Methylphenol	80	U	200	80	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
2-Nitroaniline	27	U	200	9.1	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
3-Nitroaniline	80	U	200	16	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
4-Nitroaniline	27	U	200	26	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Nitrobenzene	3.3	U	100	2.2	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
2-Nitrophenol	27	U	50	27	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
4-Nitrophenol	80	U	330	80	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Pyrene	3.3	U	6.7	3.3	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Pentachlorophenol	80	U	150	80	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Phenanthrene	3.3	U	6.7	3.3	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
1,2,4-Trichlorobenzene	27	U	50	27	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
2,4,5-Trichlorophenol	27	U	150	25	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
2,4,6-Trichlorophenol	80	U	150	80	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Phenol	27	U	50	27	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Carbazole	27	U	50	27	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
4-Chloroaniline	27	U	150	17	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
3 & 4 Methylphenol	80	U	400	20	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Bis(2-ethylhexyl) phthalate	28.3	J	50	19	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
Di-n-octyl phthalate	27	U	50	27	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
4-Chloro-3-methylphenol	27	U	150	21	ug/Kg		07/14/11 10:52	07/23/11 11:22	1
bis (2-Chloroisopropyl) ether	27	U	100	9.5	ug/Kg		07/14/11 10:52	07/23/11 11:22	1

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-8437/13-A
Matrix: Solid
Analysis Batch: 9528

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8437

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	61		45 - 105	07/14/11 10:52	07/23/11 11:22	1
2-Fluorophenol (Surr)	73		35 - 105	07/14/11 10:52	07/23/11 11:22	1
Nitrobenzene-d5 (Surr)	62		35 - 100	07/14/11 10:52	07/23/11 11:22	1
Terphenyl-d14 (Surr)	76		30 - 125	07/14/11 10:52	07/23/11 11:22	1
2,4,6-Tribromophenol (Surr)	38		35 - 125	07/14/11 10:52	07/23/11 11:22	1
Phenol-d5 (Surr)	71		40 - 100	07/14/11 10:52	07/23/11 11:22	1

Lab Sample ID: LCS 240-8437/14-A
Matrix: Solid
Analysis Batch: 9528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8437

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	667	411		ug/Kg		62	45 - 110
Acenaphthylene	667	419		ug/Kg		63	45 - 105
Anthracene	667	449		ug/Kg		67	55 - 105
Benzo[a]anthracene	667	454		ug/Kg		68	50 - 110
Benzoic acid	667	330	U	ug/Kg		11	0 - 110
Benzo[b]fluoranthene	667	473		ug/Kg		71	45 - 115
Benzo[k]fluoranthene	667	439		ug/Kg		66	45 - 125
Benzyl alcohol	667	409		ug/Kg		61	20 - 125
Bis(2-chloroethoxy)methane	667	422		ug/Kg		63	45 - 110
Bis(2-chloroethyl)ether	667	422		ug/Kg		63	40 - 105
4-Bromophenyl phenyl ether	667	463		ug/Kg		69	45 - 115
Butyl benzyl phthalate	667	468		ug/Kg		70	50 - 125
2,4-Dimethylphenol	667	353		ug/Kg		53	30 - 105
Dimethyl phthalate	667	465		ug/Kg		70	50 - 110
4,6-Dinitro-2-methylphenol	667	447		ug/Kg		67	30 - 135
2,4-Dinitrophenol	667	383		ug/Kg		57	15 - 130
2,4-Dinitrotoluene	667	493		ug/Kg		74	50 - 115
2,6-Dinitrotoluene	667	494		ug/Kg		74	50 - 110
Fluoranthene	667	477		ug/Kg		72	55 - 115
Fluorene	667	430		ug/Kg		64	50 - 110
Hexachlorobenzene	667	466		ug/Kg		70	45 - 120
Hexachlorobutadiene	667	410		ug/Kg		61	40 - 115
Hexachloroethane	667	403		ug/Kg		60	35 - 110
N-Nitrosodiphenylamine	667	447		ug/Kg		67	50 - 115
N-Nitrosodi-n-propylamine	667	425		ug/Kg		64	40 - 115
1,4-Dichlorobenzene	667	391		ug/Kg		59	35 - 105
2-Chloronaphthalene	667	426		ug/Kg		64	45 - 105
2-Chlorophenol	667	425		ug/Kg		64	45 - 105
4-Chlorophenyl phenyl ether	667	461		ug/Kg		69	45 - 110
Chrysene	667	461		ug/Kg		69	55 - 110
Dibenz(a,h)anthracene	667	477		ug/Kg		72	40 - 125
Dibenzofuran	667	434		ug/Kg		65	50 - 105
Benzo[g,h,i]perylene	667	479		ug/Kg		72	40 - 125
Benzo[a]pyrene	667	405		ug/Kg		61	50 - 110
Di-n-butyl phthalate	667	487		ug/Kg		73	55 - 110
1,2-Dichlorobenzene	667	405		ug/Kg		61	45 - 110
1,3-Dichlorobenzene	667	390		ug/Kg		58	40 - 100

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-8437/14-A
Matrix: Solid
Analysis Batch: 9528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8437

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
3,3'-Dichlorobenzidine	667	314		ug/Kg		47	10 - 130
2,4-Dichlorophenol	667	437		ug/Kg		65	45 - 110
Diethyl phthalate	667	462		ug/Kg		69	50 - 115
Indeno[1,2,3-cd]pyrene	667	475		ug/Kg		71	40 - 120
Isophorone	667	413		ug/Kg		62	45 - 110
2-Methylnaphthalene	667	486		ug/Kg		73	45 - 105
2-Methylphenol	667	436		ug/Kg		65	40 - 105
Naphthalene	667	395		ug/Kg		59	40 - 105
2-Nitroaniline	667	450		ug/Kg		67	45 - 120
3-Nitroaniline	667	423		ug/Kg		63	25 - 110
4-Nitroaniline	667	465		ug/Kg		70	35 - 115
Nitrobenzene	667	413		ug/Kg		62	40 - 115
2-Nitrophenol	667	424		ug/Kg		64	40 - 110
4-Nitrophenol	667	438		ug/Kg		66	15 - 140
Pyrene	667	443		ug/Kg		66	45 - 125
Pentachlorophenol	667	335		ug/Kg		50	25 - 120
Phenanthrene	667	435		ug/Kg		65	50 - 110
1,2,4-Trichlorobenzene	667	397		ug/Kg		59	45 - 110
2,4,5-Trichlorophenol	667	442		ug/Kg		66	50 - 110
2,4,6-Trichlorophenol	667	368		ug/Kg		55	45 - 110
Phenol	667	445		ug/Kg		67	40 - 100
Carbazole	667	453		ug/Kg		68	45 - 115
4-Chloroaniline	667	343		ug/Kg		51	10 - 110
3 & 4 Methylphenol	1330	873		ug/Kg		66	40 - 105
Bis(2-ethylhexyl) phthalate	667	483		ug/Kg		72	45 - 125
Di-n-octyl phthalate	667	450		ug/Kg		67	40 - 130
4-Chloro-3-methylphenol	667	471		ug/Kg		71	45 - 115
bis (2-Chloroisopropyl) ether	667	415		ug/Kg		62	20 - 115

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*60*		*45 - 105*
2-Fluorophenol (Surr)	*66*		*35 - 105*
Nitrobenzene-d5 (Surr)	*59*		*35 - 100*
Terphenyl-d14 (Surr)	*76*		*30 - 125*
2,4,6-Tribromophenol (Surr)	*52*		*35 - 125*
Phenol-d5 (Surr)	*66*		*40 - 100*

Lab Sample ID: 240-1728-14 MS
Matrix: Solid
Analysis Batch: 10338

Client Sample ID: LL2SS-516M-0001-SO
Prep Type: Total/NA
Prep Batch: 8437

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	110		679	519		ug/Kg	☼	60	45 - 110
Acenaphthylene	340		679	747		ug/Kg	☼	60	45 - 105
Anthracene	420		679	858		ug/Kg	☼	64	55 - 105
Benzo[a]anthracene	1500		679	1960		ug/Kg	☼	75	50 - 110
Benzoic acid	1400	U	679	1400	U	ug/Kg	☼	NC	0 - 110
Benzo[b]fluoranthene	1900	M	679	2520		ug/Kg	☼	85	45 - 115
Benzo[k]fluoranthene	980	M	679	1400	M	ug/Kg	☼	61	45 - 125

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-1728-14 MS | **Client Sample ID: LL2SS-516M-0001-SO**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 10338 | **Prep Batch: 8437**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Benzyl alcohol	110	U	679	437	J	ug/Kg	☼	64	20 - 125
Bis(2-chloroethoxy)methane	110	U	679	345	J	ug/Kg	☼	51	45 - 110
Bis(2-chloroethyl)ether	13	U	679	364	J	ug/Kg	☼	54	40 - 105
4-Bromophenyl phenyl ether	110	U	679	432		ug/Kg	☼	64	45 - 115
Butyl benzyl phthalate	110	U	679	462		ug/Kg	☼	68	50 - 125
2,4-Dimethylphenol	330	U	679	329	J	ug/Kg	☼	48	30 - 105
Dimethyl phthalate	110	U	679	426		ug/Kg	☼	63	50 - 110
4,6-Dinitro-2-methylphenol	330	U J	679	330	U J	ug/Kg	☼	0	30 - 135
2,4-Dinitrophenol	330	U J	679	330	U J	ug/Kg	☼	0	15 - 130
2,4-Dinitrotoluene	110	U	679	437	J	ug/Kg	☼	64	50 - 115
2,6-Dinitrotoluene	110	U	679	462	J	ug/Kg	☼	68	50 - 110
Fluoranthene	2900	J	679	3590	4	ug/Kg	☼	96	55 - 115
Fluorene	180		679	603		ug/Kg	☼	62	50 - 110
Hexachlorobenzene	13	U	679	426		ug/Kg	☼	63	45 - 120
Hexachlorobutadiene	110	U	679	283		ug/Kg	☼	42	40 - 115
Hexachloroethane	110	U J	679	158	J	ug/Kg	☼	23	35 - 110
N-Nitrosodiphenylamine	110	U	679	410		ug/Kg	☼	60	50 - 115
N-Nitrosodi-n-propylamine	110	U	679	378		ug/Kg	☼	56	40 - 115
1,4-Dichlorobenzene	110	U	679	296		ug/Kg	☼	44	35 - 105
2-Chloronaphthalene	13	U	679	386		ug/Kg	☼	57	45 - 105
2-Chlorophenol	110	U	679	369		ug/Kg	☼	54	45 - 105
4-Chlorophenyl phenyl ether	110	U	679	418		ug/Kg	☼	62	45 - 110
Chrysene	1400		679	1870		ug/Kg	☼	76	55 - 110
Dibenz(a,h)anthracene	240		679	565		ug/Kg	☼	48	40 - 125
Dibenzofuran	100	J	679	527		ug/Kg	☼	62	50 - 105
Benzo[g,h,i]perylene	870		679	1310		ug/Kg	☼	64	40 - 125
Benzo[a]pyrene	1600	J	679	2050		ug/Kg	☼	67	50 - 110
Di-n-butyl phthalate	110	U	679	437		ug/Kg	☼	64	55 - 110
1,2-Dichlorobenzene	110	U	679	315		ug/Kg	☼	46	45 - 95
1,3-Dichlorobenzene	110	U J	679	260	J	ug/Kg	☼	38	40 - 100
3,3'-Dichlorobenzidine	330	U	679	202	J	ug/Kg	☼	30	10 - 130
2,4-Dichlorophenol	110	U	679	399	J	ug/Kg	☼	59	45 - 110
Diethyl phthalate	110	U	679	459		ug/Kg	☼	68	50 - 115
Indeno[1,2,3-cd]pyrene	890		679	1330		ug/Kg	☼	64	40 - 120
Isophorone	75	J	679	361	J	ug/Kg	☼	42	45 - 110
2-Methylnaphthalene	45		679	492		ug/Kg	☼	66	45 - 105
2-Methylphenol	330	U	679	432	J	ug/Kg	☼	64	40 - 105
Naphthalene	58		679	388		ug/Kg	☼	49	40 - 105
2-Nitroaniline	110	U	679	475	J	ug/Kg	☼	70	45 - 120
3-Nitroaniline	330	U	679	383	J	ug/Kg	☼	56	25 - 110
4-Nitroaniline	110	U	679	497	J	ug/Kg	☼	73	35 - 115
Nitrobenzene	13	U	679	321	J	ug/Kg	☼	47	40 - 115
2-Nitrophenol	110	U	679	345		ug/Kg	☼	51	40 - 110
4-Nitrophenol	330	U	679	367	J	ug/Kg	☼	54	15 - 140
Pyrene	2400	J	679	2990		ug/Kg	☼	88	45 - 125
Pentachlorophenol	330	U J	679	330	U J	ug/Kg	☼	0	25 - 120
Phenanthrene	1400		679	1960		ug/Kg	☼	77	50 - 110
1,2,4-Trichlorobenzene	110	U	679	312		ug/Kg	☼	46	45 - 110
2,4,5-Trichlorophenol	110	U	679	432	J	ug/Kg	☼	64	50 - 110
2,4,6-Trichlorophenol	330	U J	679	330	U J	ug/Kg	☼	0	45 - 110

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-1728-14 MS
Matrix: Solid
Analysis Batch: 10338

Client Sample ID: LL2SS-516M-0001-SO
Prep Type: Total/NA
Prep Batch: 8437

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Phenol	110	U	679	445		ug/Kg	☼	66	40 - 100
Carbazole	140	J	679	560		ug/Kg	☼	62	45 - 115
4-Chloroaniline	110	U	679	180	J	ug/Kg	☼	26	10 - 95
3 & 4 Methylphenol	330	U	1360	858	J	ug/Kg	☼	63	40 - 105
Bis(2-ethylhexyl) phthalate	110	U	679	500		ug/Kg	☼	74	45 - 125
Di-n-octyl phthalate	110	U	679	511		ug/Kg	☼	75	40 - 130
4-Chloro-3-methylphenol	110	U	679	475	J	ug/Kg	☼	70	45 - 115
bis (2-Chloroisopropyl) ether	110	U	679	356	J	ug/Kg	☼	52	20 - 115

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*52*		*45 - 105*
2-Fluorophenol (Surr)	*56*		*35 - 105*
Nitrobenzene-d5 (Surr)	*44*		*35 - 100*
Terphenyl-d14 (Surr)	*69*		*30 - 125*
2,4,6-Tribromophenol (Surr)	*48*		*35 - 125*
Phenol-d5 (Surr)	*63*		*40 - 100*

Lab Sample ID: 240-1728-14 MSD
Matrix: Solid
Analysis Batch: 10338

Client Sample ID: LL2SS-516M-0001-SO
Prep Type: Total/NA
Prep Batch: 8437

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	110		679	567		ug/Kg	☼	68	45 - 110	9	30
Acenaphthylene	340		679	852		ug/Kg	☼	76	45 - 105	13	30
Anthracene	420		679	909		ug/Kg	☼	72	55 - 105	6	30
Benzo[a]anthracene	1500		679	2190		ug/Kg	☼	108	50 - 110	11	30
Benzoic acid	1400	U	679	1400	U	ug/Kg	☼	NC	0 - 110	NC	30
Benzo[b]fluoranthene	1900	M	679	2490		ug/Kg	☼	80	45 - 115	1	30
Benzo[k]fluoranthene	980	M	679	1680	M	ug/Kg	☼	103	45 - 125	19	30
Benzyl alcohol	110	U	679	497	J	ug/Kg	☼	73	20 - 125	13	30
Bis(2-chloroethoxy)methane	110	U	679	429		ug/Kg	☼	63	45 - 110	22	30
Bis(2-chloroethyl)ether	13	U	679	494		ug/Kg	☼	73	40 - 105	30	30
4-Bromophenyl phenyl ether	110	U	679	421		ug/Kg	☼	62	45 - 115	3	30
Butyl benzyl phthalate	110	U	679	480		ug/Kg	☼	71	50 - 125	4	30
2,4-Dimethylphenol	330	U	679	391	J	ug/Kg	☼	58	30 - 105	17	30
Dimethyl phthalate	110	U	679	451		ug/Kg	☼	66	50 - 110	6	30
4,6-Dinitro-2-methylphenol	330	U J	679	330	U J	ug/Kg	☼	0	30 - 135	NC	30
2,4-Dinitrophenol	330	U J	679	330	U J	ug/Kg	☼	0	15 - 130	NC	30
2,4-Dinitrotoluene	110	U	679	461	J	ug/Kg	☼	68	50 - 115	5	30
2,6-Dinitrotoluene	110	U	679	451	J	ug/Kg	☼	66	50 - 110	2	30
Fluoranthene	2900	J	679	3990	4	ug/Kg	☼	156	55 - 115	11	30
Fluorene	180		679	657		ug/Kg	☼	70	50 - 110	9	30
Hexachlorobenzene	13	U	679	421		ug/Kg	☼	62	45 - 120	1	30
Hexachlorobutadiene	110	U	679	369		ug/Kg	☼	54	40 - 115	27	30
Hexachloroethane	110	U J	679	170	J	ug/Kg	☼	25	35 - 110	7	30
N-Nitrosodiphenylamine	110	U	679	413		ug/Kg	☼	61	50 - 115	1	30
N-Nitrosodi-n-propylamine	110	U	679	489		ug/Kg	☼	72	40 - 115	26	30
1,4-Dichlorobenzene	110	U	679	361		ug/Kg	☼	53	35 - 105	20	30
2-Chloronaphthalene	13	U	679	432		ug/Kg	☼	64	45 - 105	11	30

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-1728-14 MSD
Matrix: Solid
Analysis Batch: 10338

Client Sample ID: LL2SS-516M-0001-SO
Prep Type: Total/NA
Prep Batch: 8437

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
2-Chlorophenol	110	U	679	448		ug/Kg	☼	66	45 - 105	19	30
4-Chlorophenyl phenyl ether	110	U	679	459		ug/Kg	☼	68	45 - 110	9	30
Chrysene	1400		679	2080		ug/Kg	☼	106	55 - 110	10	30
Dibenz(a,h)anthracene	240		679	703		ug/Kg	☼	69	40 - 125	22	30
Dibenzofuran	100	J	679	573		ug/Kg	☼	69	50 - 105	8	30
Benzo[g,h,i]perylene	870		679	1430		ug/Kg	☼	82	40 - 125	9	30
Benzo[a]pyrene	1600	J	679	1120	J	ug/Kg	☼	-69	50 - 110	58	30
Di-n-butyl phthalate	110	U	679	456		ug/Kg	☼	67	55 - 110	4	30
1,2-Dichlorobenzene	110	U	679	383		ug/Kg	☼	56	45 - 95	19	30
1,3-Dichlorobenzene	110	U J	679	356	J	ug/Kg	☼	52	40 - 100	31	30
3,3'-Dichlorobenzidine	330	U	679	194	J	ug/Kg	☼	29	10 - 130	4	30
2,4-Dichlorophenol	110	U	679	486	J	ug/Kg	☼	72	45 - 110	20	30
Diethyl phthalate	110	U	679	483		ug/Kg	☼	71	50 - 115	5	30
Indeno[1,2,3-cd]pyrene	890		679	1470		ug/Kg	☼	86	40 - 120	10	30
Isophorone	75	J	679	418		ug/Kg	☼	51	45 - 110	15	30
2-Methylnaphthalene	45		679	594		ug/Kg	☼	81	45 - 105	19	30
2-Methylphenol	330	U	679	489	J	ug/Kg	☼	72	40 - 105	12	30
Naphthalene	58		679	475		ug/Kg	☼	61	40 - 105	20	30
2-Nitroaniline	110	U	679	513	J	ug/Kg	☼	76	45 - 120	8	30
3-Nitroaniline	330	U	679	423	J	ug/Kg	☼	62	25 - 110	10	30
4-Nitroaniline	110	U	679	491	J	ug/Kg	☼	72	35 - 115	1	30
Nitrobenzene	13	U	679	413		ug/Kg	☼	61	40 - 115	25	30
2-Nitrophenol	110	U	679	391		ug/Kg	☼	58	40 - 110	12	30
4-Nitrophenol	330	U	679	445	J	ug/Kg	☼	66	15 - 140	19	30
Pyrene	2400	J	679	3280	J	ug/Kg	☼	132	45 - 125	9	30
Pentachlorophenol	330	U J	679	330	U J	ug/Kg	☼	0	25 - 120	NC	30
Phenanthrene	1400		679	2070		ug/Kg	☼	94	50 - 110	6	30
1,2,4-Trichlorobenzene	110	U	679	388		ug/Kg	☼	57	45 - 110	22	30
2,4,5-Trichlorophenol	110	U	679	453	J	ug/Kg	☼	67	50 - 110	5	30
2,4,6-Trichlorophenol	330	U J	679	396	J	ug/Kg	☼	58	45 - 110	200	30
Phenol	110	U	679	527		ug/Kg	☼	78	40 - 100	17	30
Carbazole	140	J	679	592		ug/Kg	☼	67	45 - 115	6	30
4-Chloroaniline	110	U	679	233	J	ug/Kg	☼	34	10 - 95	26	30
3 & 4 Methylphenol	330	U	1360	956	J	ug/Kg	☼	70	40 - 105	11	30
Bis(2-ethylhexyl) phthalate	110	U	679	567		ug/Kg	☼	84	45 - 125	13	30
Di-n-octyl phthalate	110	U	679	535		ug/Kg	☼	79	40 - 130	5	30
4-Chloro-3-methylphenol	110	U	679	543	J	ug/Kg	☼	80	45 - 115	13	30
bis (2-Chloroisopropyl) ether	110	U	679	448		ug/Kg	☼	66	20 - 115	23	30

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*58*		*45 - 105*
2-Fluorophenol (Surr)	*66*		*35 - 105*
Nitrobenzene-d5 (Surr)	*56*		*35 - 100*
Terphenyl-d14 (Surr)	*72*		*30 - 125*
2,4,6-Tribromophenol (Surr)	*57*		*35 - 125*
Phenol-d5 (Surr)	*72*		*40 - 100*

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-8593/15-A
Matrix: Solid
Analysis Batch: 9106

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8593

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	3.3	ug/Kg		07/15/11 10:59	07/19/11 20:36	1
Acenaphthylene	3.3	U	6.7	3.3	ug/Kg		07/15/11 10:59	07/19/11 20:36	1
Anthracene	3.3	U	6.7	3.3	ug/Kg		07/15/11 10:59	07/19/11 20:36	1
Benzo[a]anthracene	3.3	U	6.7	3.3	ug/Kg		07/15/11 10:59	07/19/11 20:36	1
Benzo[b]fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/15/11 10:59	07/19/11 20:36	1
Benzo[k]fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/15/11 10:59	07/19/11 20:36	1
Fluoranthene	3.3	U	6.7	3.3	ug/Kg		07/15/11 10:59	07/19/11 20:36	1
Fluorene	3.3	U	6.7	3.3	ug/Kg		07/15/11 10:59	07/19/11 20:36	1
Chrysene	3.3	U	6.7	1.1	ug/Kg		07/15/11 10:59	07/19/11 20:36	1
Dibenz(a,h)anthracene	3.3	U	6.7	3.3	ug/Kg		07/15/11 10:59	07/19/11 20:36	1
Benzo[g,h,i]perylene	3.3	U	6.7	3.3	ug/Kg		07/15/11 10:59	07/19/11 20:36	1
Benzo[a]pyrene	3.3	U	6.7	3.3	ug/Kg		07/15/11 10:59	07/19/11 20:36	1
Indeno[1,2,3-cd]pyrene	3.3	U	6.7	3.3	ug/Kg		07/15/11 10:59	07/19/11 20:36	1
Naphthalene	3.3	U	6.7	3.3	ug/Kg		07/15/11 10:59	07/19/11 20:36	1
Pyrene	3.3	U	6.7	3.3	ug/Kg		07/15/11 10:59	07/19/11 20:36	1
Phenanthrene	3.3	U	6.7	3.3	ug/Kg		07/15/11 10:59	07/19/11 20:36	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*53*		*45 - 105*	*07/15/11 10:59*	*07/19/11 20:36*	*1*
2-Fluorophenol (Surr)	*61*		*35 - 105*	*07/15/11 10:59*	*07/19/11 20:36*	*1*
Nitrobenzene-d5 (Surr)	*53*		*35 - 100*	*07/15/11 10:59*	*07/19/11 20:36*	*1*
Terphenyl-d14 (Surr)	*70*		*30 - 125*	*07/15/11 10:59*	*07/19/11 20:36*	*1*
2,4,6-Tribromophenol (Surr)	*20*	*M Q*	*35 - 125*	*07/15/11 10:59*	*07/19/11 20:36*	*1*
Phenol-d5 (Surr)	*61*		*40 - 100*	*07/15/11 10:59*	*07/19/11 20:36*	*1*

Lab Sample ID: LCS 240-8593/16-A
Matrix: Solid
Analysis Batch: 9106

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	667	389		ug/Kg		58	45 - 110
Acenaphthylene	667	401		ug/Kg		60	45 - 105
Anthracene	667	453		ug/Kg		68	55 - 105
Benzo[a]anthracene	667	428		ug/Kg		64	50 - 110
Benzo[b]fluoranthene	667	398		ug/Kg		60	45 - 115
Benzo[k]fluoranthene	667	472		ug/Kg		71	45 - 125
Fluoranthene	667	457		ug/Kg		68	55 - 115
Fluorene	667	422		ug/Kg		63	50 - 110
Chrysene	667	438		ug/Kg		66	55 - 110
Dibenz(a,h)anthracene	667	461		ug/Kg		69	40 - 125
Benzo[g,h,i]perylene	667	475		ug/Kg		71	40 - 125
Benzo[a]pyrene	667	388		ug/Kg		58	50 - 110
Indeno[1,2,3-cd]pyrene	667	465		ug/Kg		70	40 - 120
Naphthalene	667	364		ug/Kg		55	40 - 105
Pyrene	667	449		ug/Kg		67	45 - 125
Phenanthrene	667	441		ug/Kg		66	50 - 110

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*55*		*45 - 105*

Method: 8270C/DoD - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-8593/16-A
Matrix: Solid
Analysis Batch: 9106

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8593

Surrogate	LCS % Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	63		35 - 105
Nitrobenzene-d5 (Surr)	55		35 - 100
Terphenyl-d14 (Surr)	76		30 - 125
2,4,6-Tribromophenol (Surr)	43		35 - 125
Phenol-d5 (Surr)	65		40 - 100

Method: 8081/DOD - Organochlorine Pesticides (GC)

Lab Sample ID: MB 240-7787/3-A
Matrix: Water
Analysis Batch: 10137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7787

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.010	U	0.050	0.0096	ug/L		07/09/11 07:16	07/29/11 05:37	1
4,4'-DDE	0.010	U	0.050	0.0097	ug/L		07/09/11 07:16	07/29/11 05:37	1
4,4'-DDT	0.030	U	0.050	0.016	ug/L		07/09/11 07:16	07/29/11 05:37	1
Aldrin	0.010	U	0.050	0.0082	ug/L		07/09/11 07:16	07/29/11 05:37	1
alpha-BHC	0.010	U	0.050	0.0070	ug/L		07/09/11 07:16	07/29/11 05:37	1
alpha-Chlordane	0.010	U	0.050	0.014	ug/L		07/09/11 07:16	07/29/11 05:37	1
beta-BHC	0.010	U	0.050	0.0084	ug/L		07/09/11 07:16	07/29/11 05:37	1
delta-BHC	0.010	U	0.050	0.0087	ug/L		07/09/11 07:16	07/29/11 05:37	1
Dieldrin	0.010	U	0.050	0.0075	ug/L		07/09/11 07:16	07/29/11 05:37	1
Endosulfan I	0.010	U	0.050	0.013	ug/L		07/09/11 07:16	07/29/11 05:37	1
Endosulfan II	0.010	U	0.050	0.012	ug/L		07/09/11 07:16	07/29/11 05:37	1
Endosulfan sulfate	0.010	U	0.050	0.011	ug/L		07/09/11 07:16	07/29/11 05:37	1
Endrin	0.010	U	0.050	0.011	ug/L		07/09/11 07:16	07/29/11 05:37	1
Endrin aldehyde	0.010	U	0.050	0.011	ug/L		07/09/11 07:16	07/29/11 05:37	1
Endrin ketone	0.010	U	0.050	0.0078	ug/L		07/09/11 07:16	07/29/11 05:37	1
gamma-BHC (Lindane)	0.010	U	0.050	0.0064	ug/L		07/09/11 07:16	07/29/11 05:37	1
gamma-Chlordane	0.010	U	0.050	0.012	ug/L		07/09/11 07:16	07/29/11 05:37	1
Heptachlor	0.010	U	0.050	0.0080	ug/L		07/09/11 07:16	07/29/11 05:37	1
Heptachlor epoxide	0.010	U	0.050	0.0071	ug/L		07/09/11 07:16	07/29/11 05:37	1
Methoxychlor	0.030	U	0.10	0.032	ug/L		07/09/11 07:16	07/29/11 05:37	1
Toxaphene	0.50	U	2.0	0.32	ug/L		07/09/11 07:16	07/29/11 05:37	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	105		30 - 135	07/09/11 07:16	07/29/11 05:37	1
DCB Decachlorobiphenyl	108		30 - 135	07/09/11 07:16	07/29/11 05:37	1
Tetrachloro-m-xylene	108		25 - 140	07/09/11 07:16	07/29/11 05:37	1
Tetrachloro-m-xylene	96		25 - 140	07/09/11 07:16	07/29/11 05:37	1

Lab Sample ID: LCS 240-7787/4-A
Matrix: Water
Analysis Batch: 10137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDD	1.00	0.988		ug/L		99	25 - 150
4,4'-DDE	1.00	1.13		ug/L		113	35 - 140
4,4'-DDT	1.00	0.790		ug/L		79	45 - 140

Method: 8081/DOD - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 240-7787/4-A
Matrix: Water
Analysis Batch: 10137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7787

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Aldrin			1.00	1.08		ug/L		108	25 - 140		
alpha-BHC			1.00	1.15		ug/L		115	60 - 130		
alpha-Chlordane			1.00	1.05		ug/L		105	65 - 125		
beta-BHC			1.00	1.05		ug/L		105	65 - 125		
delta-BHC			1.00	1.04		ug/L		104	45 - 135		
Dieldrin			1.00	1.02		ug/L		102	60 - 130		
Endosulfan I			1.00	0.508		ug/L		51	50 - 110		
Endosulfan II			1.00	0.568		ug/L		57	30 - 130		
Endosulfan sulfate			1.00	0.914		ug/L		91	55 - 135		
Endrin			1.00	0.891		ug/L		89	55 - 135		
Endrin aldehyde			1.00	0.688		ug/L		69	55 - 135		
Endrin ketone			1.00	0.823		ug/L		82	75 - 125		
gamma-BHC (Lindane)			1.00	1.10		ug/L		110	25 - 135		
gamma-Chlordane			1.00	1.07		ug/L		107	60 - 125		
Heptachlor			1.00	0.839		ug/L		84	40 - 130		
Heptachlor epoxide			1.00	1.01		ug/L		101	60 - 130		
Methoxychlor			1.00	0.766		ug/L		77	55 - 150		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*85*		*30 - 135*
DCB Decachlorobiphenyl	*80*		*30 - 135*
Tetrachloro-m-xylene	*111*		*25 - 140*
Tetrachloro-m-xylene	*92*		*25 - 140*

Lab Sample ID: MB 240-8260/15-A
Matrix: Solid
Analysis Batch: 10329

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8260

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.67	U	2.0	0.62	ug/Kg		07/13/11 12:29	07/31/11 03:41	1
4,4'-DDE	0.67	U	1.7	0.39	ug/Kg		07/13/11 12:29	07/31/11 03:41	1
4,4'-DDT	0.67	U	2.0	0.63	ug/Kg		07/13/11 12:29	07/31/11 03:41	1
Aldrin	1.3	U	4.0	1.2	ug/Kg		07/13/11 12:29	07/31/11 03:41	1
alpha-BHC	1.3	U	2.5	0.73	ug/Kg		07/13/11 12:29	07/31/11 03:41	1
alpha-Chlordane	1.3	U	3.0	0.94	ug/Kg		07/13/11 12:29	07/31/11 03:41	1
beta-BHC	1.3	U	3.5	1.1	ug/Kg		07/13/11 12:29	07/31/11 03:41	1
delta-BHC	1.3	U	4.0	1.2	ug/Kg		07/13/11 12:29	07/31/11 03:41	1
Dieldrin	0.67	U	1.7	0.47	ug/Kg		07/13/11 12:29	07/31/11 03:41	1
Endosulfan I	0.67	U	1.7	0.52	ug/Kg		07/13/11 12:29	07/31/11 03:41	1
Endosulfan II	1.3	U	2.5	0.82	ug/Kg		07/13/11 12:29	07/31/11 03:41	1
Endosulfan sulfate	1.3	U M	3.0	0.87	ug/Kg		07/13/11 12:29	07/31/11 03:41	1
Endrin	0.67	U	1.7	0.50	ug/Kg		07/13/11 12:29	07/31/11 03:41	1
Endrin aldehyde	1.3	U	3.0	1.0	ug/Kg		07/13/11 12:29	07/31/11 03:41	1
Endrin ketone	0.67	U	2.0	0.63	ug/Kg		07/13/11 12:29	07/31/11 03:41	1
gamma-BHC (Lindane)	1.3	U	2.5	0.74	ug/Kg		07/13/11 12:29	07/31/11 03:41	1
gamma-Chlordane	0.67	U	1.7	0.42	ug/Kg		07/13/11 12:29	07/31/11 03:41	1
Heptachlor	1.3	U	3.5	1.1	ug/Kg		07/13/11 12:29	07/31/11 03:41	1
Heptachlor epoxide	1.3	U	2.5	0.80	ug/Kg		07/13/11 12:29	07/31/11 03:41	1
Methoxychlor	3.3	U	5.0	1.5	ug/Kg		07/13/11 12:29	07/31/11 03:41	1

Method: 8081/DOD - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 240-8260/15-A
Matrix: Solid
Analysis Batch: 10329

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8260

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	20	U M	67	19	ug/Kg		07/13/11 12:29	07/31/11 03:41	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*55 - 130*	*07/13/11 12:29*	*07/31/11 03:41*	*1*
DCB Decachlorobiphenyl	*88*		*55 - 130*	*07/13/11 12:29*	*07/31/11 03:41*	*1*
Tetrachloro-m-xylene	*141*	*Q*	*70 - 125*	*07/13/11 12:29*	*07/31/11 03:41*	*1*
Tetrachloro-m-xylene	*98*		*70 - 125*	*07/13/11 12:29*	*07/31/11 03:41*	*1*

Lab Sample ID: LCS 240-8260/14-A
Matrix: Solid
Analysis Batch: 10329

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDD	33.3	39.0		ug/Kg		117	30 - 135
4,4'-DDE	33.3	32.5		ug/Kg		98	70 - 125
4,4'-DDT	33.3	31.6		ug/Kg		95	45 - 140
Aldrin	33.3	37.4		ug/Kg		112	45 - 140
alpha-BHC	33.3	42.2	J Q	ug/Kg		127	60 - 125
alpha-Chlordane	33.3	37.8		ug/Kg		114	65 - 120
beta-BHC	33.3	41.0		ug/Kg		123	60 - 125
delta-BHC	33.3	41.6		ug/Kg		125	55 - 130
Dieldrin	33.3	37.8		ug/Kg		113	65 - 125
Endosulfan I	33.3	17.1		ug/Kg		51	15 - 135
Endosulfan II	33.3	19.5		ug/Kg		59	35 - 140
Endosulfan sulfate	33.3	33.6		ug/Kg		101	60 - 135
Endrin	33.3	40.1		ug/Kg		120	60 - 135
Endrin aldehyde	33.3	29.4		ug/Kg		88	35 - 145
Endrin ketone	33.3	29.8		ug/Kg		89	65 - 135
gamma-BHC (Lindane)	33.3	43.9	Q	ug/Kg		132	60 - 125
gamma-Chlordane	33.3	38.6		ug/Kg		116	65 - 125
Heptachlor	33.3	45.7		ug/Kg		137	50 - 140
Heptachlor epoxide	33.3	38.8		ug/Kg		116	65 - 130
Methoxychlor	33.3	31.5		ug/Kg		95	55 - 145

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*94*		*55 - 130*
DCB Decachlorobiphenyl	*91*		*55 - 130*
Tetrachloro-m-xylene	*153*	*Q*	*70 - 125*
Tetrachloro-m-xylene	*97*		*70 - 125*

Lab Sample ID: 240-1728-34 MS
Matrix: Solid
Analysis Batch: 10329

Client Sample ID: LL1SB-645M-0103-SO
Prep Type: Total/NA
Prep Batch: 8260

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDD	13		33.5	33.8	J D	ug/Kg	☼	101	30 - 135
4,4'-DDE	670		33.5	260	D 4	ug/Kg	☼	-1210	70 - 125
4,4'-DDT	20		33.5	32.9	D J	ug/Kg	☼	38	45 - 140
Aldrin	27		33.5	67	U	ug/Kg	☼	NC	45 - 140

Method: 8081/DOD - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 240-1728-34 MS
Matrix: Solid
Analysis Batch: 10329

Client Sample ID: LL1SB-645M-0103-SO
Prep Type: Total/NA
Prep Batch: 8260

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
alpha-BHC	27		33.5	51.5	J D	ug/Kg	☼	NC	60 - 125
alpha-Chlordane	27		33.5	67	U	ug/Kg	☼	NC	65 - 120
beta-BHC	28		33.5	62.7	D J	ug/Kg	☼	104	60 - 125
delta-BHC	27		33.5	67	U	ug/Kg	☼	NC	55 - 130
Dieldrin	13		33.5	39.0	J D	ug/Kg	☼	116	65 - 125
Endosulfan I	13		33.5	26.6	J D	ug/Kg	☼	79	15 - 135
Endosulfan II	27		33.5	67	U	ug/Kg	☼	NC	35 - 140
Endosulfan sulfate	27		33.5	62.1	J D	ug/Kg	☼	NC	60 - 135
Endrin	36		33.5	53.9	D J	ug/Kg	☼	53	60 - 135
Endrin aldehyde	27		33.5	67	U	ug/Kg	☼	NC	35 - 145
Endrin ketone	13		33.5	40.9	J D	ug/Kg	☼	122	65 - 135
gamma-BHC (Lindane)	27		33.5	53.1	J D	ug/Kg	☼	NC	60 - 125
gamma-Chlordane	13		33.5	498	D J	ug/Kg	☼	1485	65 - 125
Heptachlor	27		33.5	67	U	ug/Kg	☼	NC	50 - 140
Heptachlor epoxide	27		33.5	73.0	J D	ug/Kg	☼	NC	65 - 130
Methoxychlor	66		33.5	170	U	ug/Kg	☼	NC	55 - 145

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*0*	*Q*	*55 - 130*
DCB Decachlorobiphenyl	*0*	*Q*	*55 - 130*
Tetrachloro-m-xylene	*376*	*Q*	*70 - 125*
Tetrachloro-m-xylene	*144*	*Q*	*70 - 125*

Lab Sample ID: 240-1728-34 MSD
Matrix: Solid
Analysis Batch: 10329

Client Sample ID: LL1SB-645M-0103-SO
Prep Type: Total/NA
Prep Batch: 8260

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
4,4'-DDD	13		33.5	36.6	J D	ug/Kg	☼	109	30 - 135	8	30
4,4'-DDE	670		33.5	278	D 4	ug/Kg	☼	-1156	70 - 125	7	30
4,4'-DDT	20		33.5	35.4	J D	ug/Kg	☼	45	45 - 140	7	30
Aldrin	27		33.5	67	U	ug/Kg	☼	NC	45 - 140	NC	30
alpha-BHC	27		33.5	73.6	D J	ug/Kg	☼	NC	60 - 125	35	30
alpha-Chlordane	27		33.5	67	U	ug/Kg	☼	NC	65 - 120	NC	30
beta-BHC	28		33.5	59.1	D J	ug/Kg	☼	93	60 - 125	6	30
delta-BHC	27		33.5	67	U	ug/Kg	☼	NC	55 - 130	NC	30
Dieldrin	13		33.5	47.0	D J	ug/Kg	☼	140	65 - 125	19	30
Endosulfan I	13		33.5	27.3	D J	ug/Kg	☼	82	15 - 135	200	30
Endosulfan II	27		33.5	67	U	ug/Kg	☼	NC	35 - 140	NC	30
Endosulfan sulfate	27		33.5	58.5	J D	ug/Kg	☼	NC	60 - 135	6	30
Endrin	36		33.5	34	U J	ug/Kg	☼	0	60 - 135	200	30
Endrin aldehyde	27		33.5	67	U	ug/Kg	☼	NC	35 - 145	NC	30
Endrin ketone	13		33.5	46.3	D J	ug/Kg	☼	138	65 - 135	12	30
gamma-BHC (Lindane)	27		33.5	55.3	J D	ug/Kg	☼	NC	60 - 125	4	30
gamma-Chlordane	13		33.5	424	D J	ug/Kg	☼	1265	65 - 125	16	30
Heptachlor	27		33.5	67	U	ug/Kg	☼	NC	50 - 140	NC	30
Heptachlor epoxide	27		33.5	71.6	J D	ug/Kg	☼	NC	65 - 130	2	30
Methoxychlor	66		33.5	170	U	ug/Kg	☼	NC	55 - 145	NC	30

Method: 8081/DOD - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 240-1728-34 MSD
Matrix: Solid
Analysis Batch: 10329

Client Sample ID: LL1SB-645M-0103-SO
Prep Type: Total/NA
Prep Batch: 8260

Surrogate	MSD % Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	0	Q	55 - 130
DCB Decachlorobiphenyl	0	Q	55 - 130
Tetrachloro-m-xylene	2975	Q	70 - 125
Tetrachloro-m-xylene	178	Q	70 - 125

Lab Sample ID: MB 240-8605/9-A
Matrix: Solid
Analysis Batch: 10598

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8605

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.67	U	2.0	0.62	ug/Kg		07/15/11 12:19	08/03/11 02:14	1
4,4'-DDE	0.67	U	1.7	0.39	ug/Kg		07/15/11 12:19	08/03/11 02:14	1
4,4'-DDT	0.67	U	2.0	0.63	ug/Kg		07/15/11 12:19	08/03/11 02:14	1
Aldrin	1.3	U	4.0	1.2	ug/Kg		07/15/11 12:19	08/03/11 02:14	1
alpha-BHC	1.3	U	2.5	0.73	ug/Kg		07/15/11 12:19	08/03/11 02:14	1
alpha-Chlordane	1.3	U	3.0	0.94	ug/Kg		07/15/11 12:19	08/03/11 02:14	1
beta-BHC	1.3	U	3.5	1.1	ug/Kg		07/15/11 12:19	08/03/11 02:14	1
delta-BHC	1.3	U	4.0	1.2	ug/Kg		07/15/11 12:19	08/03/11 02:14	1
Dieldrin	0.67	U	1.7	0.47	ug/Kg		07/15/11 12:19	08/03/11 02:14	1
Endosulfan I	0.67	U	1.7	0.52	ug/Kg		07/15/11 12:19	08/03/11 02:14	1
Endosulfan II	1.3	U	2.5	0.82	ug/Kg		07/15/11 12:19	08/03/11 02:14	1
Endosulfan sulfate	1.3	U	3.0	0.87	ug/Kg		07/15/11 12:19	08/03/11 02:14	1
Endrin	0.67	U	1.7	0.50	ug/Kg		07/15/11 12:19	08/03/11 02:14	1
Endrin aldehyde	1.3	U	3.0	1.0	ug/Kg		07/15/11 12:19	08/03/11 02:14	1
Endrin ketone	0.67	U	2.0	0.63	ug/Kg		07/15/11 12:19	08/03/11 02:14	1
gamma-BHC (Lindane)	1.3	U	2.5	0.74	ug/Kg		07/15/11 12:19	08/03/11 02:14	1
gamma-Chlordane	0.67	U	1.7	0.42	ug/Kg		07/15/11 12:19	08/03/11 02:14	1
Heptachlor	1.3	U	3.5	1.1	ug/Kg		07/15/11 12:19	08/03/11 02:14	1
Heptachlor epoxide	1.3	U	2.5	0.80	ug/Kg		07/15/11 12:19	08/03/11 02:14	1
Methoxychlor	3.3	U	5.0	1.5	ug/Kg		07/15/11 12:19	08/03/11 02:14	1
Toxaphene	20	U	67	19	ug/Kg		07/15/11 12:19	08/03/11 02:14	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	81		55 - 130	07/15/11 12:19	08/03/11 02:14	1
DCB Decachlorobiphenyl	88		55 - 130	07/15/11 12:19	08/03/11 02:14	1
Tetrachloro-m-xylene	91		70 - 125	07/15/11 12:19	08/03/11 02:14	1
Tetrachloro-m-xylene	89		70 - 125	07/15/11 12:19	08/03/11 02:14	1

Lab Sample ID: LCS 240-8605/10-A
Matrix: Solid
Analysis Batch: 10598

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8605

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDD	66.7	55.6	J	ug/Kg		83	30 - 135
4,4'-DDE	66.7	48.1		ug/Kg		72	70 - 125
4,4'-DDT	66.7	45.7		ug/Kg		69	45 - 140
Aldrin	66.7	54.0		ug/Kg		81	45 - 140
alpha-BHC	66.7	62.0	J	ug/Kg		93	60 - 125
alpha-Chlordane	66.7	50.8		ug/Kg		76	65 - 120

Method: 8081/DOD - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 240-8605/10-A
Matrix: Solid
Analysis Batch: 10598

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8605

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
beta-BHC	66.7	53.9		ug/Kg		81	60 - 125
delta-BHC	66.7	61.2	J	ug/Kg		92	55 - 130
Dieldrin	66.7	53.2		ug/Kg		80	65 - 125
Endosulfan I	66.7	26.2		ug/Kg		39	15 - 135
Endosulfan II	66.7	28.1		ug/Kg		42	35 - 140
Endosulfan sulfate	66.7	48.4		ug/Kg		73	60 - 135
Endrin	66.7	51.3		ug/Kg		77	60 - 135
Endrin aldehyde	66.7	39.2		ug/Kg		59	35 - 145
Endrin ketone	66.7	43.9		ug/Kg		66	65 - 135
gamma-BHC (Lindane)	66.7	63.9	J	ug/Kg		96	60 - 125
gamma-Chlordane	66.7	57.3		ug/Kg		86	65 - 125
Heptachlor	66.7	53.8		ug/Kg		81	50 - 140
Heptachlor epoxide	66.7	55.7		ug/Kg		84	65 - 130
Methoxychlor	66.7	45.7		ug/Kg		69	55 - 145

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*76*		*55 - 130*
DCB Decachlorobiphenyl	*77*		*55 - 130*
Tetrachloro-m-xylene	*69*	*Q*	*70 - 125*
Tetrachloro-m-xylene	*73*		*70 - 125*

Lab Sample ID: 240-1728-14 MS
Matrix: Solid
Analysis Batch: 10598

Client Sample ID: LL2SS-516M-0001-SO
Prep Type: Total/NA
Prep Batch: 8605

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDD	14		67.8	84.7	D	ug/Kg	☼	125	30 - 135
4,4'-DDE	19		67.8	88.1	D	ug/Kg	☼	101	70 - 125
4,4'-DDT	14		67.8	68.5	D	ug/Kg	☼	101	45 - 140
Aldrin	27		67.8	83.4	D	ug/Kg	☼	123	45 - 140
alpha-BHC	27		67.8	94.9	D J	ug/Kg	☼	140	60 - 125
alpha-Chlordane	27		67.8	92.2	D J	ug/Kg	☼	136	65 - 120
beta-BHC	27		67.8	170	D J	ug/Kg	☼	251	60 - 125
delta-BHC	27		67.8	86.8	D	ug/Kg	☼	128	55 - 130
Dieldrin	14		67.8	92.9	D J	ug/Kg	☼	137	65 - 125
Endosulfan I	14		67.8	73.2	D	ug/Kg	☼	108	15 - 135
Endosulfan II	27		67.8	72.5	D	ug/Kg	☼	107	35 - 140
Endosulfan sulfate	27		67.8	76.6	D	ug/Kg	☼	113	60 - 135
Endrin	14		67.8	94.9	D J	ug/Kg	☼	140	60 - 135
Endrin aldehyde	27		67.8	74.6	D	ug/Kg	☼	110	35 - 145
Endrin ketone	14		67.8	96.9	D J	ug/Kg	☼	143	65 - 135
gamma-BHC (Lindane)	27		67.8	99.0	D J	ug/Kg	☼	146	60 - 125
gamma-Chlordane	37	D J	67.8	119	D	ug/Kg	☼	121	65 - 125
Heptachlor	27		67.8	22200	D J	ug/Kg	☼	32700	50 - 140
Heptachlor epoxide	27		67.8	92.9	D J	ug/Kg	☼	137	65 - 130
Methoxychlor	67		67.8	157	D J	ug/Kg	☼	231	55 - 145

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*819*	*Q*	*55 - 130*

Method: 8081/DOD - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 240-1728-14 MS
Matrix: Solid
Analysis Batch: 10598

Client Sample ID: LL2SS-516M-0001-SO
Prep Type: Total/NA
Prep Batch: 8605

Surrogate	MS % Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	50	Q	55 - 130
Tetrachloro-m-xylene	138	Q	70 - 125
Tetrachloro-m-xylene	102	M	70 - 125

Lab Sample ID: 240-1728-14 MSD
Matrix: Solid
Analysis Batch: 10598

Client Sample ID: LL2SS-516M-0001-SO
Prep Type: Total/NA
Prep Batch: 8605

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
4,4'-DDD	14		67.9	78.1	D	ug/Kg	☼	115	30 - 135	8	30
4,4'-DDE	19		67.9	83.5	D	ug/Kg	☼	94	70 - 125	5	30
4,4'-DDT	14		67.9	62.4	D	ug/Kg	☼	92	45 - 140	9	30
Aldrin	27		67.9	81.5	D	ug/Kg	☼	120	45 - 140	2	30
alpha-BHC	27		67.9	97.1	D J	ug/Kg	☼	143	60 - 125	2	30
alpha-Chlordane	27		67.9	91.6	D J	ug/Kg	☼	135	65 - 120	1	30
beta-BHC	27		67.9	150	D J	ug/Kg	☼	221	60 - 125	13	30
delta-BHC	27		67.9	83.5	D	ug/Kg	☼	123	55 - 130	4	30
Dieldrin	14		67.9	88.9	D J	ug/Kg	☼	131	65 - 125	4	30
Endosulfan I	14		67.9	64.6	D	ug/Kg	☼	95	15 - 135	12	30
Endosulfan II	27		67.9	63.4	D	ug/Kg	☼	93	35 - 140	13	30
Endosulfan sulfate	27		67.9	75.4	D	ug/Kg	☼	111	60 - 135	2	30
Endrin	14		67.9	96.4	D J	ug/Kg	☼	142	60 - 135	2	30
Endrin aldehyde	27		67.9	73.3	D	ug/Kg	☼	108	35 - 145	2	30
Endrin ketone	14		67.9	95.7	D J	ug/Kg	☼	141	65 - 135	1	30
gamma-BHC (Lindane)	27		67.9	99.1	D J	ug/Kg	☼	146	60 - 125	0	30
gamma-Chlordane	37	D J	67.9	111	D	ug/Kg	☼	110	65 - 125	6	30
Heptachlor	27		67.9	27	U J	ug/Kg	☼	0	50 - 140	200	30
Heptachlor epoxide	27		67.9	27	U J	ug/Kg	☼	0	65 - 130	200	30
Methoxychlor	67		67.9	155	D J	ug/Kg	☼	229	55 - 145	1	30

Surrogate	MSD % Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	738	Q	55 - 130
DCB Decachlorobiphenyl	150	Q	55 - 130
Tetrachloro-m-xylene	134	Q	70 - 125
Tetrachloro-m-xylene	95		70 - 125

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-7786/3-A
Matrix: Water
Analysis Batch: 8509

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7786

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.20	U	0.50	0.17	ug/L		07/09/11 07:10	07/15/11 05:08	1
Aroclor 1221	0.20	U	0.50	0.13	ug/L		07/09/11 07:10	07/15/11 05:08	1
Aroclor 1232	0.20	U	0.50	0.16	ug/L		07/09/11 07:10	07/15/11 05:08	1
Aroclor 1242	0.40	U	0.50	0.22	ug/L		07/09/11 07:10	07/15/11 05:08	1
Aroclor 1248	0.20	U	0.50	0.10	ug/L		07/09/11 07:10	07/15/11 05:08	1
Aroclor 1254	0.20	U	0.50	0.16	ug/L		07/09/11 07:10	07/15/11 05:08	1

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 240-7786/3-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 8509 — **Prep Batch: 7786**

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	0.20	U	0.50	0.17	ug/L		07/09/11 07:10	07/15/11 05:08	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*40 - 140*	*07/09/11 07:10*	*07/15/11 05:08*	*1*
Tetrachloro-m-xylene	*74*		*40 - 140*	*07/09/11 07:10*	*07/15/11 05:08*	*1*
DCB Decachlorobiphenyl	*75*		*40 - 135*	*07/09/11 07:10*	*07/15/11 05:08*	*1*
DCB Decachlorobiphenyl	*71*		*40 - 135*	*07/09/11 07:10*	*07/15/11 05:08*	*1*

Lab Sample ID: LCS 240-7786/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 8509 — **Prep Batch: 7786**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aroclor 1016	10.0	7.90		ug/L		79	25 - 145
Aroclor 1260	10.0	8.09		ug/L		81	30 - 145

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*40 - 140*
Tetrachloro-m-xylene	*77*		*40 - 140*
DCB Decachlorobiphenyl	*31*	*Q*	*40 - 135*
DCB Decachlorobiphenyl	*28*	*Q*	*40 - 135*

Lab Sample ID: MB 240-8270/14-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 9102 — **Prep Batch: 8270**

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	65	21	ug/Kg		07/13/11 13:31	07/20/11 21:58	1
Aroclor 1221	25	U	50	16	ug/Kg		07/13/11 13:31	07/20/11 21:58	1
Aroclor 1232	25	U	45	14	ug/Kg		07/13/11 13:31	07/20/11 21:58	1
Aroclor 1242	25	U	40	13	ug/Kg		07/13/11 13:31	07/20/11 21:58	1
Aroclor 1248	25	U	55	17	ug/Kg		07/13/11 13:31	07/20/11 21:58	1
Aroclor 1254	25	U	55	17	ug/Kg		07/13/11 13:31	07/20/11 21:58	1
Aroclor 1260	25	U	55	17	ug/Kg		07/13/11 13:31	07/20/11 21:58	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*105*		*40 - 140*	*07/13/11 13:31*	*07/20/11 21:58*	*1*
Tetrachloro-m-xylene	*104*		*40 - 140*	*07/13/11 13:31*	*07/20/11 21:58*	*1*
DCB Decachlorobiphenyl	*102*		*60 - 125*	*07/13/11 13:31*	*07/20/11 21:58*	*1*
DCB Decachlorobiphenyl	*109*		*60 - 125*	*07/13/11 13:31*	*07/20/11 21:58*	*1*

Lab Sample ID: LCS 240-8270/15-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 9463 — **Prep Batch: 8270**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aroclor 1016	333	333		ug/Kg		100	40 - 140
Aroclor 1260	333	333		ug/Kg		100	60 - 130

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-8270/15-A
Matrix: Solid
Analysis Batch: 9463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8270

Surrogate	LCS % Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	99		40 - 140
Tetrachloro-m-xylene	97		40 - 140
DCB Decachlorobiphenyl	113		60 - 125
DCB Decachlorobiphenyl	112		60 - 125

Lab Sample ID: 240-1728-32 MS
Matrix: Solid
Analysis Batch: 9463

Client Sample ID: LL1SB-645M-0102-SO
Prep Type: Total/NA
Prep Batch: 8270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Aroclor 1016	2500	U	338	2500	U	ug/Kg	☼	NC	40 - 140
Aroclor 1260	2500	U	338	2500	U	ug/Kg	☼	NC	60 - 130

Surrogate	MS % Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	0	Q	40 - 140
Tetrachloro-m-xylene	0	Q	40 - 140
DCB Decachlorobiphenyl	0	Q	60 - 125
DCB Decachlorobiphenyl	0	Q	60 - 125

Lab Sample ID: 240-1728-32 MSD
Matrix: Solid
Analysis Batch: 9463

Client Sample ID: LL1SB-645M-0102-SO
Prep Type: Total/NA
Prep Batch: 8270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Aroclor 1016	2500	U	338	2500	U	ug/Kg	☼	NC	40 - 140	NC	30
Aroclor 1260	2500	U	338	2500	U	ug/Kg	☼	NC	60 - 130	NC	30

Surrogate	MSD % Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	0	Q	40 - 140
Tetrachloro-m-xylene	0	Q	40 - 140
DCB Decachlorobiphenyl	0	Q	60 - 125
DCB Decachlorobiphenyl	0	Q	60 - 125

Lab Sample ID: MB 240-8599/10-A
Matrix: Solid
Analysis Batch: 9453

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8599

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	25	U	65	21	ug/Kg		07/15/11 11:34	07/22/11 19:20	1
Aroclor 1221	25	U	50	16	ug/Kg		07/15/11 11:34	07/22/11 19:20	1
Aroclor 1232	25	U	45	14	ug/Kg		07/15/11 11:34	07/22/11 19:20	1
Aroclor 1242	25	U	40	13	ug/Kg		07/15/11 11:34	07/22/11 19:20	1
Aroclor 1248	25	U	55	17	ug/Kg		07/15/11 11:34	07/22/11 19:20	1
Aroclor 1254	25	U	55	17	ug/Kg		07/15/11 11:34	07/22/11 19:20	1
Aroclor 1260	25	U	55	17	ug/Kg		07/15/11 11:34	07/22/11 19:20	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	90		40 - 140	07/15/11 11:34	07/22/11 19:20	1

Method: 8082/DOD - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 240-8599/10-A
Matrix: Solid
Analysis Batch: 9453

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8599

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		40 - 140	07/15/11 11:34	07/22/11 19:20	1
DCB Decachlorobiphenyl	90		60 - 125	07/15/11 11:34	07/22/11 19:20	1
DCB Decachlorobiphenyl	94		60 - 125	07/15/11 11:34	07/22/11 19:20	1

Lab Sample ID: LCS 240-8599/11-A
Matrix: Solid
Analysis Batch: 9453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aroclor 1016	333	340		ug/Kg		102	40 - 140
Aroclor 1260	333	340		ug/Kg		102	60 - 130

Surrogate	LCS % Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	110		40 - 140
Tetrachloro-m-xylene	104		40 - 140
DCB Decachlorobiphenyl	99		60 - 125
DCB Decachlorobiphenyl	107		60 - 125

Lab Sample ID: 240-1728-14 MS
Matrix: Solid
Analysis Batch: 9453

Client Sample ID: LL2SS-516M-0001-SO
Prep Type: Total/NA
Prep Batch: 8599

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Aroclor 1016	130	U	339	273	J D	ug/Kg	☼	80	40 - 140
Aroclor 1260	130	U J	339	469	D J	ug/Kg	☼	138	60 - 130

Surrogate	MS % Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	84		40 - 140
Tetrachloro-m-xylene	76		40 - 140
DCB Decachlorobiphenyl	147	Q	60 - 125
DCB Decachlorobiphenyl	78		60 - 125

Lab Sample ID: 240-1728-14 MSD
Matrix: Solid
Analysis Batch: 9453

Client Sample ID: LL2SS-516M-0001-SO
Prep Type: Total/NA
Prep Batch: 8599

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Aroclor 1016	130	U	338	268	J D	ug/Kg	☼	79	40 - 140	2	30
Aroclor 1260	130	U J	338	484	D J	ug/Kg	☼	143	60 - 130	3	30

Surrogate	MSD % Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	69		40 - 140
Tetrachloro-m-xylene	69		40 - 140
DCB Decachlorobiphenyl	142	Q	60 - 125
DCB Decachlorobiphenyl	104		60 - 125

Method: 8330 (Modified) - Organic Compounds by UV/HPLC

Lab Sample ID: G1G150000121B
Matrix: Solid
Analysis Batch: 1196121

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 1196121_P

Analyte	MB Result	MB Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	0.040 U		0.25	0.020	mg/kg		07/15/11 12:00	07/27/11 16:12	1

Lab Sample ID: G1G150000121C
Matrix: Solid
Analysis Batch: 1196121

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 1196121_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitroguanidine	1.00	0.921		mg/kg		92	72 - 121

Lab Sample ID: 240-1728-14 MS
Matrix: Solid
Analysis Batch: 1196121

Client Sample ID: LL2SS-516M-0001-SO
Prep Type: Total
Prep Batch: 1196121_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitroguanidine	0.039 U		0.990	0.852		mg/kg		86	72 - 121

Lab Sample ID: 240-1728-14 MSD
Matrix: Solid
Analysis Batch: 1196121

Client Sample ID: LL2SS-516M-0001-SO
Prep Type: Total
Prep Batch: 1196121_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Nitroguanidine	0.039 U		0.990	0.836		mg/kg		84	72 - 121	1.8	20

Lab Sample ID: G1G200000051B
Matrix: Water
Analysis Batch: 1201051

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 1201051_P

Analyte	MB Result	MB Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	6.0 U		20	2.4	ug/L		07/20/11 08:50	07/27/11 12:08	1

Lab Sample ID: G1G200000051C
Matrix: Water
Analysis Batch: 1201051

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 1201051_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitroguanidine	250	232		ug/L		93	73 - 117

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A)

Lab Sample ID: G1G120000068B
Matrix: Water
Analysis Batch: 1193068

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 1193068_P

Analyte	MB Result	MB Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroglycerin	0.50 U		0.65	0.33	ug/L		07/12/11 09:00	07/23/11 12:21	1
PETN	0.50 U		0.65	0.30	ug/L		07/12/11 09:00	07/23/11 12:21	1
2-Amino-4,6-dinitrotoluene	0.10 U		0.20	0.10	ug/L		07/12/11 09:00	07/23/11 12:21	1
4-Amino-2,6-dinitrotoluene	0.050 U		0.10	0.050	ug/L		07/12/11 09:00	07/23/11 12:21	1
1,3-Dinitrobenzene	0.050 U		0.10	0.050	ug/L		07/12/11 09:00	07/23/11 12:21	1
2,4-Dinitrotoluene	0.050 U		0.10	0.050	ug/L		07/12/11 09:00	07/23/11 12:21	1
2,6-Dinitrotoluene	0.050 U		0.10	0.050	ug/L		07/12/11 09:00	07/23/11 12:21	1

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A) (Continued)

Lab Sample ID: G1G120000068B — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 1193068 — **Prep Batch: 1193068_P**

Analyte	MB Result	MB Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HMX	0.050 U		0.10	0.036	ug/L		07/12/11 09:00	07/23/11 12:21	1
Nitrobenzene	0.050 U		0.10	0.050	ug/L		07/12/11 09:00	07/23/11 12:21	1
2-Nitrotoluene	0.10 U		0.50	0.088	ug/L		07/12/11 09:00	07/23/11 12:21	1
3-Nitrotoluene	0.10 U		0.50	0.057	ug/L		07/12/11 09:00	07/23/11 12:21	1
4-Nitrotoluene	0.10 U		0.65	0.088	ug/L		07/12/11 09:00	07/23/11 12:21	1
RDX	0.050 U		0.10	0.036	ug/L		07/12/11 09:00	07/23/11 12:21	1
Tetryl	0.050 U		0.10	0.050	ug/L		07/12/11 09:00	07/23/11 12:21	1
1,3,5-Trinitrobenzene	0.050 U		0.10	0.030	ug/L		07/12/11 09:00	07/23/11 12:21	1
2,4,6-Trinitrotoluene	0.050 U		0.10	0.050	ug/L		07/12/11 09:00	07/23/11 12:21	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*93*		*79 - 111*	*07/12/11 09:00*	*07/23/11 12:21*	*1*

Lab Sample ID: G1G120000068C — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 1193068 — **Prep Batch: 1193068_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitroglycerin	5.00	4.98		ug/L		100	85 - 115
PETN	5.00	4.96		ug/L		99	84 - 117
2-Amino-4,6-dinitrotoluene	1.00	1.06		ug/L		106	50 - 155
4-Amino-2,6-dinitrotoluene	1.00	1.04		ug/L		104	55 - 155
1,3-Dinitrobenzene	1.00	1.13		ug/L		113	45 - 160
2,4-Dinitrotoluene	1.00	1.05		ug/L		105	60 - 135
2,6-Dinitrotoluene	1.00	1.04		ug/L		104	60 - 135
HMX	1.00	1.07		ug/L		107	80 - 115
Nitrobenzene	1.00	1.10		ug/L		110	50 - 140
2-Nitrotoluene	1.00	1.02		ug/L		102	45 - 135
3-Nitrotoluene	1.00	1.01		ug/L		101	50 - 130
4-Nitrotoluene	1.00	1.00		ug/L		100	50 - 130
RDX	1.00	1.21		ug/L		121	50 - 160
Tetryl	1.00	0.999		ug/L		100	20 - 175
1,3,5-Trinitrobenzene	1.00	1.10		ug/L		110	65 - 140
2,4,6-Trinitrotoluene	1.00	0.979		ug/L		98	50 - 145

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
3,4-Dinitrotoluene	*95*		*79 - 111*

Lab Sample ID: G1G150000123B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1196123 — **Prep Batch: 1196123_P**

Analyte	MB Result	MB Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.10 U		0.25	0.020	mg/kg		07/15/11 12:00	07/29/11 01:26	1
1,3-Dinitrobenzene	0.10 U		0.25	0.050	mg/kg		07/15/11 12:00	07/29/11 01:26	1
2,4,6-Trinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/15/11 12:00	07/29/11 01:26	1
2,4-Dinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/15/11 12:00	07/29/11 01:26	1
2,6-Dinitrotoluene	0.10 U		0.25	0.030	mg/kg		07/15/11 12:00	07/29/11 01:26	1
2-Amino-4,6-dinitrotoluene	0.10 U		0.25	0.10	mg/kg		07/15/11 12:00	07/29/11 01:26	1

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A) (Continued)

Lab Sample ID: G1G150000123B
Matrix: Solid
Analysis Batch: 1196123

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 1196123_P

Analyte	MB Result	MB Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrotoluene	0.10 U		0.25	0.080	mg/kg		07/15/11 12:00	07/29/11 01:26	1
3-Nitrotoluene	0.10 U		0.25	0.070	mg/kg		07/15/11 12:00	07/29/11 01:26	1
4-Amino-2,6-dinitrotoluene	0.10 U		0.25	0.020	mg/kg		07/15/11 12:00	07/29/11 01:26	1
4-Nitrotoluene	0.10 U		0.25	0.080	mg/kg		07/15/11 12:00	07/29/11 01:26	1
HMX	0.10 U		0.25	0.030	mg/kg		07/15/11 12:00	07/29/11 01:26	1
Nitrobenzene	0.10 U		0.25	0.050	mg/kg		07/15/11 12:00	07/29/11 01:26	1
Nitroglycerin	0.25 U		0.50	0.13	mg/kg		07/15/11 12:00	07/29/11 01:26	1
PETN	0.25 U		0.50	0.16	mg/kg		07/15/11 12:00	07/29/11 01:26	1
RDX	0.10 U		0.25	0.040	mg/kg		07/15/11 12:00	07/29/11 01:26	1
Tetryl	0.10 U		0.25	0.050	mg/kg		07/15/11 12:00	07/29/11 01:26	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*93*		*78 - 108*	*07/15/11 12:00*	*07/29/11 01:26*	*1*

Lab Sample ID: G1G150000123C
Matrix: Solid
Analysis Batch: 1196123

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 1196123_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,3,5-Trinitrobenzene	1.00	1.06		mg/kg		106	75 - 125
1,3-Dinitrobenzene	1.00	1.06		mg/kg		106	80 - 125
2,4,6-Trinitrotoluene	1.00	1.00		mg/kg		100	55 - 140
2,4-Dinitrotoluene	1.00	1.03		mg/kg		103	80 - 125
2,6-Dinitrotoluene	1.00	1.03		mg/kg		103	80 - 120
2-Amino-4,6-dinitrotoluene	1.00	1.05		mg/kg		105	80 - 125
2-Nitrotoluene	1.00	0.892		mg/kg		89	80 - 125
3-Nitrotoluene	1.00	0.893		mg/kg		89	75 - 120
4-Amino-2,6-dinitrotoluene	1.00	1.03		mg/kg		103	80 - 125
4-Nitrotoluene	1.00	0.911		mg/kg		91	75 - 125
HMX	1.00	1.05		mg/kg		105	75 - 125
Nitrobenzene	1.00	0.932		mg/kg		93	75 - 125
Nitroglycerin	5.00	4.84		mg/kg		97	84 - 114
PETN	5.00	4.92		mg/kg		98	85 - 115
RDX	1.00	1.08		mg/kg		108	70 - 135
Tetryl	1.00	0.992		mg/kg		99	10 - 150

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
3,4-Dinitrotoluene	*94*		*78 - 108*

Lab Sample ID: 240-1728-14 MS
Matrix: Solid
Analysis Batch: 1196123

Client Sample ID: LL2SS-516M-0001-SO
Prep Type: Total
Prep Batch: 1196123_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
1,3,5-Trinitrobenzene	0.10 U		0.985	1.04		mg/kg		106	75 - 125
1,3-Dinitrobenzene	0.10 U		0.985	1.06		mg/kg		107	80 - 125
2,4,6-Trinitrotoluene	0.10 U		0.985	0.971		mg/kg		99	55 - 140
2,4-Dinitrotoluene	0.10 U		0.985	1.00		mg/kg		102	80 - 125
2,6-Dinitrotoluene	0.10 U		0.985	0.984		mg/kg		100	80 - 120

Method: 8330/8330A - Nitroaromatics & Nitramines: Explosives (8330/A) (Continued)

Lab Sample ID: 240-1728-14 MS — **Client Sample ID: LL2SS-516M-0001-SO**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1196123 — **Prep Batch: 1196123_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
2-Amino-4,6-dinitrotoluene	0.10 U		0.985	1.01		mg/kg		103	80 - 125
2-Nitrotoluene	0.10 U		0.985	0.878		mg/kg		89	80 - 125
3-Nitrotoluene	0.10 U		0.985	0.871		mg/kg		88	75 - 120
4-Amino-2,6-dinitrotoluene	0.10 U		0.985	0.978		mg/kg		99	80 - 125
4-Nitrotoluene	0.10 U		0.985	0.927		mg/kg		94	75 - 125
HMX	0.10 U		0.985	1.02		mg/kg		104	75 - 125
Nitrobenzene	0.10 U		0.985	0.946		mg/kg		96	75 - 125
Nitroglycerin	0.25 U		4.93	4.77		mg/kg		97	84 - 114
PETN	0.25 U		4.93	4.84		mg/kg		98	85 - 115
RDX	0.10 U		0.985	1.05		mg/kg		106	70 - 135
Tetryl	0.10 U		0.985	0.985		mg/kg		100	10 - 150

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
3,4-Dinitrotoluene	*93*		*78 - 108*

Lab Sample ID: 240-1728-14 MSD — **Client Sample ID: LL2SS-516M-0001-SO**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1196123 — **Prep Batch: 1196123_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,3,5-Trinitrobenzene	0.10 U		1.02	1.06		mg/kg		105	75 - 125	1.9	30
1,3-Dinitrobenzene	0.10 U		1.02	1.09		mg/kg		107	80 - 125	2.8	30
2,4,6-Trinitrotoluene	0.10 U		1.02	0.996		mg/kg		98	55 - 140	2.5	30
2,4-Dinitrotoluene	0.10 U		1.02	1.03		mg/kg		101	80 - 125	2.6	30
2,6-Dinitrotoluene	0.10 U		1.02	1.00		mg/kg		99	80 - 120	1.8	30
2-Amino-4,6-dinitrotoluene	0.10 U		1.02	1.04		mg/kg		103	80 - 125	3.2	30
2-Nitrotoluene	0.10 U		1.02	0.884		mg/kg		87	80 - 125	0.72	30
3-Nitrotoluene	0.10 U		1.02	0.885		mg/kg		87	75 - 120	1.5	30
4-Amino-2,6-dinitrotoluene	0.10 U		1.02	1.01		mg/kg		99	80 - 125	3.2	30
4-Nitrotoluene	0.10 U		1.02	0.930		mg/kg		92	75 - 125	0.30	30
HMX	0.10 U		1.02	1.06		mg/kg		104	75 - 125	3.5	30
Nitrobenzene	0.10 U		1.02	0.962		mg/kg		95	75 - 125	1.6	30
Nitroglycerin	0.25 U		5.08	4.96		mg/kg		98	84 - 114	3.8	30
PETN	0.25 U		5.08	5.06		mg/kg		100	85 - 115	4.3	30
RDX	0.10 U		1.02	1.07		mg/kg		106	70 - 135	2.5	30
Tetryl	0.10 U		1.02	1.01		mg/kg		99	10 - 150	2.1	30

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
3,4-Dinitrotoluene	*93*		*78 - 108*

Method: 6020/DOD - Metals (ICP/MS)

Lab Sample ID: MB 240-14048/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 14738 — **Prep Batch: 14048**

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.58	J	10	2.5	mg/Kg		09/01/11 09:48	09/08/11 10:41	1
Calcium	100	U	200	40	mg/Kg		09/01/11 09:48	09/08/11 10:41	1

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 240-14048/1-A
Matrix: Solid
Analysis Batch: 14738

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14048

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	30	U	50	11	mg/Kg		09/01/11 09:48	09/08/11 10:41	1
Magnesium	25	U	100	8.9	mg/Kg		09/01/11 09:48	09/08/11 10:41	1
Potassium	10	U	100	3.8	mg/Kg		09/01/11 09:48	09/08/11 10:41	1
Sodium	40	U	100	14	mg/Kg		09/01/11 09:48	09/08/11 10:41	1

Lab Sample ID: LCS 240-14048/2-A ^10
Matrix: Solid
Analysis Batch: 14738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14048

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	1000	951	D	mg/Kg		95	80 - 120
Calcium	1000	953	J D	mg/Kg		95	80 - 120
Iron	1000	1070	D	mg/Kg		107	80 - 120
Magnesium	1000	974	J D	mg/Kg		97	80 - 120
Potassium	1000	958	J D	mg/Kg		96	80 - 120
Sodium	1000	1060	D	mg/Kg		106	80 - 120

Lab Sample ID: 240-1728-14 MS
Matrix: Solid
Analysis Batch: 14738

Client Sample ID: LL2SS-516M-0001-SO
Prep Type: Total/NA
Prep Batch: 14048

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	8100	J	961	10300	4	mg/Kg	☼	232	70 - 130
Calcium	17000	J	961	18600	4	mg/Kg	☼	207	70 - 130
Iron	20000	J	961	23100	4	mg/Kg	☼	278	70 - 130
Magnesium	4100		961	5240	4	mg/Kg	☼	114	70 - 130
Potassium	1100		961	2040		mg/Kg	☼	94	70 - 130
Sodium	160		961	1150		mg/Kg	☼	103	70 - 130

Lab Sample ID: 240-1728-14 MSD
Matrix: Solid
Analysis Batch: 14738

Client Sample ID: LL2SS-516M-0001-SO
Prep Type: Total/NA
Prep Batch: 14048

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Aluminum	8100	J	961	10700	4	mg/Kg	☼	264	70 - 130	3	20
Calcium	17000	J	961	17700	4	mg/Kg	☼	111	70 - 130	5	20
Iron	20000	J	961	22400	4	mg/Kg	☼	212	70 - 130	3	20
Magnesium	4100		961	5100	4	mg/Kg	☼	99	70 - 130	3	20
Potassium	1100		961	2150		mg/Kg	☼	105	70 - 130	5	20
Sodium	160		961	1100		mg/Kg	☼	98	70 - 130	4	20

Lab Sample ID: MB 240-8611/1-A
Matrix: Solid
Analysis Batch: 13778

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8611

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.15	U	0.20	0.062	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Arsenic	0.15	U	0.50	0.052	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Barium	0.30	U	0.50	0.13	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Calcium	100	U	200	40	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Chromium	0.45	U	0.50	0.16	mg/Kg		07/15/11 12:40	08/25/11 22:08	1

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 240-8611/1-A
Matrix: Solid
Analysis Batch: 13778

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8611

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.30	U	0.40	0.11	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Iron	30	U	50	11	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Lead	0.20	U	0.30	0.071	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Magnesium	25	U	100	8.9	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Manganese	0.40	U	0.50	0.16	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Nickel	0.103	J	0.50	0.086	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Potassium	10	U	100	3.8	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Selenium	0.060	U	0.50	0.021	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Sodium	40	U	100	14	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Thallium	0.15	U	0.20	0.056	mg/Kg		07/15/11 12:40	08/25/11 22:08	1
Vanadium	0.10	U	0.50	0.043	mg/Kg		07/15/11 12:40	08/25/11 22:08	1

Lab Sample ID: MB 240-8611/1-A
Matrix: Solid
Analysis Batch: 13699

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8611

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.0	U	10	2.5	mg/Kg		07/15/11 12:40	08/29/11 13:37	1
Beryllium	0.010	U	0.10	0.0035	mg/Kg		07/15/11 12:40	08/29/11 13:37	1
Cadmium	0.010	U	0.20	0.0031	mg/Kg		07/15/11 12:40	08/29/11 13:37	1
Cobalt	0.015	U	0.10	0.0045	mg/Kg		07/15/11 12:40	08/29/11 13:37	1
Silver	0.050	U	0.10	0.016	mg/Kg		07/15/11 12:40	08/29/11 13:37	1
Zinc	2.0	U	4.0	1.0	mg/Kg		07/15/11 12:40	08/29/11 13:37	1

Lab Sample ID: LCS 240-8611/2-A
Matrix: Solid
Analysis Batch: 13778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Antimony	10.0	10.1	D	mg/Kg		101	68 - 113
Arsenic	100	99.8	D	mg/Kg		100	73 - 110
Barium	100	96.2	D	mg/Kg		96	70 - 110
Calcium	1000	1010	J D	mg/Kg		101	80 - 120
Chromium	100	102	D	mg/Kg		102	70 - 110
Copper	100	108	D	mg/Kg		108	73 - 110
Iron	1000	1060	D	mg/Kg		106	80 - 120
Lead	100	92.1	D	mg/Kg		92	75 - 110
Magnesium	1000	1080	D	mg/Kg		108	80 - 120
Manganese	100	106	D	mg/Kg		106	80 - 120
Nickel	100	108	D	mg/Kg		108	75 - 110
Potassium	1000	1020	D	mg/Kg		102	80 - 120
Selenium	100	98.3	D	mg/Kg		98	65 - 110
Sodium	1000	1070	D	mg/Kg		107	80 - 120
Thallium	100	90.6	D	mg/Kg		91	71 - 110
Vanadium	100	98.9	D	mg/Kg		99	72 - 110

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-8611/2-A ^10
Matrix: Solid
Analysis Batch: 13699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	1000	1040	D	mg/Kg		104	80 - 120
Beryllium	100	99.6	D	mg/Kg		100	79 - 110
Cadmium	100	106	D	mg/Kg		106	74 - 110
Cobalt	100	99.7	D	mg/Kg		100	74 - 110
Silver	10.0	10.8	D	mg/Kg		108	60 - 114
Zinc	100	111	D	mg/Kg		111	72 - 113

Lab Sample ID: 240-1728-14 MS
Matrix: Solid
Analysis Batch: 13778

Client Sample ID: LL2SS-516M-0001-SO
Prep Type: Total/NA
Prep Batch: 8611

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Antimony	0.15	J	9.70	2.63	J	mg/Kg	☼	26	75 - 125
Arsenic	10		9.70	16.7		mg/Kg	☼	64	23 - 131
Barium	79	J	9.70	79.6	4	mg/Kg	☼	7	10 - 199
Chromium	27		9.70	28.5		mg/Kg	☼	17	10 - 199
Copper	19		9.70	25.0		mg/Kg	☼	67	10 - 199
Lead	35		9.70	41.4		mg/Kg	☼	63	10 - 199
Nickel	26		9.70	29.8		mg/Kg	☼	34	10 - 176
Selenium	1.2		9.70	7.15		mg/Kg	☼	62	39 - 116
Thallium	0.17	J	9.70	7.82	J	mg/Kg	☼	79	82 - 110
Vanadium	15		9.70	22.9		mg/Kg	☼	83	39 - 129

Lab Sample ID: 240-1728-14 MS
Matrix: Solid
Analysis Batch: 13699

Client Sample ID: LL2SS-516M-0001-SO
Prep Type: Total/NA
Prep Batch: 8611

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Beryllium	0.86	D	9.70	8.91	D	mg/Kg	☼	83	58 - 112
Cadmium	0.27	J D	9.70	8.74	D	mg/Kg	☼	87	58 - 110
Cobalt	8.3	D	9.70	15.1	D	mg/Kg	☼	71	55 - 110
Manganese	670	D J	9.70	605	D 4	mg/Kg	☼	-683	10 - 199
Silver	0.24	U	9.70	8.51	D	mg/Kg	☼	88	75 - 125
Zinc	88	D J	9.70	71.9	D 4	mg/Kg	☼	-167	10 - 199

Lab Sample ID: 240-1728-14 MSD
Matrix: Solid
Analysis Batch: 13778

Client Sample ID: LL2SS-516M-0001-SO
Prep Type: Total/NA
Prep Batch: 8611

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Antimony	0.15	J	9.70	2.73	J	mg/Kg	☼	27	75 - 125	4	20
Arsenic	10		9.70	19.3		mg/Kg	☼	91	23 - 131	14	20
Barium	79	J	9.70	86.7	4	mg/Kg	☼	80	10 - 199	9	20
Chromium	27		9.70	33.5		mg/Kg	☼	69	10 - 199	16	20
Copper	19		9.70	26.8		mg/Kg	☼	85	10 - 199	7	20
Lead	35		9.70	45.4		mg/Kg	☼	103	10 - 199	9	20
Nickel	26		9.70	33.5		mg/Kg	☼	73	10 - 176	12	20
Selenium	1.2		9.70	7.95		mg/Kg	☼	70	39 - 116	11	20
Thallium	0.17	J	9.70	8.49		mg/Kg	☼	86	82 - 110	8	20
Vanadium	15		9.70	24.6		mg/Kg	☼	100	39 - 129	7	20

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-1728-14 MSD
Matrix: Solid
Analysis Batch: 13699

Client Sample ID: LL2SS-516M-0001-SO
Prep Type: Total/NA
Prep Batch: 8611

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Beryllium	0.86	D	9.70	9.72	D	mg/Kg	☼	91	58 - 112	9	20
Cadmium	0.27	J D	9.70	9.69	D	mg/Kg	☼	97	58 - 110	10	20
Cobalt	8.3	D	9.70	16.7	D	mg/Kg	☼	87	55 - 110	10	20
Manganese	670	D J	9.70	635	D 4	mg/Kg	☼	-373	10 - 199	5	20
Silver	0.24	U	9.70	9.41	D	mg/Kg	☼	97	75 - 125	10	20
Zinc	88	D J	9.70	76.6	D 4	mg/Kg	☼	-118	10 - 199	6	20

Lab Sample ID: MB 240-8922/1-A
Matrix: Solid
Analysis Batch: 13699

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8922

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.0	U	10	2.5	mg/Kg		07/19/11 10:57	08/29/11 17:04	1
Antimony	0.15	U	0.20	0.062	mg/Kg		07/19/11 10:57	08/29/11 17:04	1
Arsenic	0.15	U	0.50	0.052	mg/Kg		07/19/11 10:57	08/29/11 17:04	1
Barium	0.437	J	0.50	0.13	mg/Kg		07/19/11 10:57	08/29/11 17:04	1
Beryllium	0.010	U	0.10	0.0035	mg/Kg		07/19/11 10:57	08/29/11 17:04	1
Cadmium	0.010	U	0.20	0.0031	mg/Kg		07/19/11 10:57	08/29/11 17:04	1
Calcium	100	U	200	40	mg/Kg		07/19/11 10:57	08/29/11 17:04	1
Chromium	0.45	U	0.50	0.16	mg/Kg		07/19/11 10:57	08/29/11 17:04	1
Cobalt	0.015	U	0.10	0.0045	mg/Kg		07/19/11 10:57	08/29/11 17:04	1
Copper	0.30	U	0.40	0.11	mg/Kg		07/19/11 10:57	08/29/11 17:04	1
Iron	30	U	50	11	mg/Kg		07/19/11 10:57	08/29/11 17:04	1
Lead	0.20	U	0.30	0.071	mg/Kg		07/19/11 10:57	08/29/11 17:04	1
Magnesium	25	U	100	8.9	mg/Kg		07/19/11 10:57	08/29/11 17:04	1
Manganese	0.40	U	0.50	0.16	mg/Kg		07/19/11 10:57	08/29/11 17:04	1
Nickel	0.25	U	0.50	0.086	mg/Kg		07/19/11 10:57	08/29/11 17:04	1
Potassium	10	U	100	3.8	mg/Kg		07/19/11 10:57	08/29/11 17:04	1
Selenium	0.060	U	0.50	0.021	mg/Kg		07/19/11 10:57	08/29/11 17:04	1
Silver	0.050	U	0.10	0.016	mg/Kg		07/19/11 10:57	08/29/11 17:04	1
Sodium	40	U	100	14	mg/Kg		07/19/11 10:57	08/29/11 17:04	1
Thallium	0.15	U	0.20	0.056	mg/Kg		07/19/11 10:57	08/29/11 17:04	1
Vanadium	0.10	U	0.50	0.043	mg/Kg		07/19/11 10:57	08/29/11 17:04	1
Zinc	2.30	J	4.0	1.0	mg/Kg		07/19/11 10:57	08/29/11 17:04	1

Lab Sample ID: LCS 240-8922/2-A ^10
Matrix: Solid
Analysis Batch: 13699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	1000	1030	D	mg/Kg		103	80 - 120
Antimony	10.0	10.7	D	mg/Kg		107	68 - 113
Arsenic	100	101	D	mg/Kg		101	73 - 110
Barium	100	98.8	D	mg/Kg		99	70 - 110
Beryllium	100	99.6	D	mg/Kg		100	79 - 110
Cadmium	100	106	D	mg/Kg		106	74 - 110
Calcium	1000	960	J D	mg/Kg		96	80 - 120
Chromium	100	96.8	D	mg/Kg		97	70 - 110
Cobalt	100	99.9	D	mg/Kg		100	74 - 110
Copper	100	103	D	mg/Kg		103	73 - 110

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-8922/2-A ^10
Matrix: Solid
Analysis Batch: 13699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Iron	1000	1110	D	mg/Kg		111	80 - 120
Lead	100	97.8	D	mg/Kg		98	75 - 110
Magnesium	1000	1040	D	mg/Kg		104	80 - 120
Manganese	100	105	D	mg/Kg		105	80 - 120
Nickel	100	103	D	mg/Kg		103	75 - 110
Potassium	1000	982	J D	mg/Kg		98	80 - 120
Selenium	100	102	D	mg/Kg		102	65 - 110
Silver	10.0	10.9	D	mg/Kg		109	60 - 114
Sodium	1000	1110	D	mg/Kg		111	80 - 120
Thallium	100	96.1	D	mg/Kg		96	71 - 110
Vanadium	100	95.2	D	mg/Kg		95	72 - 110
Zinc	100	112	D	mg/Kg		112	72 - 113

Lab Sample ID: 240-1728-30 MS
Matrix: Solid
Analysis Batch: 13699

Client Sample ID: LL1SB-645M-0101-SO
Prep Type: Total/NA
Prep Batch: 8922

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	4300		1010	5430	4	mg/Kg	☼	114	70 - 130
Antimony	0.084	J	10.1	4.76	J	mg/Kg	☼	46	75 - 125
Arsenic	5.8		10.1	12.9		mg/Kg	☼	70	23 - 131
Barium	39	B	10.1	47.8		mg/Kg	☼	88	10 - 199
Beryllium	0.35		10.1	8.86		mg/Kg	☼	84	58 - 112
Cadmium	3.8		10.1	10.5		mg/Kg	☼	66	58 - 110
Calcium	9000	J	1010	10800	4	mg/Kg	☼	179	70 - 130
Chromium	29	J	10.1	30.5		mg/Kg	☼	11	10 - 199
Cobalt	5.4		10.1	13.9		mg/Kg	☼	85	55 - 110
Copper	22		10.1	24.8		mg/Kg	☼	31	10 - 199
Iron	19000	J	1010	17200	4	mg/Kg	☼	-137	70 - 130
Magnesium	1700		1010	2860		mg/Kg	☼	115	70 - 130
Nickel	20		10.1	24.7		mg/Kg	☼	47	10 - 176
Potassium	590		1010	1510		mg/Kg	☼	91	70 - 130
Selenium	0.44	J	10.1	7.33		mg/Kg	☼	68	39 - 116
Silver	0.018	J	10.1	9.74		mg/Kg	☼	96	75 - 125
Sodium	60	J	1010	1160		mg/Kg	☼	109	70 - 130
Thallium	0.12	J	10.1	10.4		mg/Kg	☼	102	82 - 110
Vanadium	8.1		10.1	17.7		mg/Kg	☼	95	39 - 129
Zinc	100	B J	10.1	85.6	4	mg/Kg	☼	-140	10 - 199

Lab Sample ID: 240-1728-30 MSD
Matrix: Solid
Analysis Batch: 13699

Client Sample ID: LL1SB-645M-0101-SO
Prep Type: Total/NA
Prep Batch: 8922

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Aluminum	4300		1010	5120	4	mg/Kg	☼	84	70 - 130	6	20
Antimony	0.084	J	10.1	4.56	J	mg/Kg	☼	44	75 - 125	4	20
Arsenic	5.8		10.1	14.0		mg/Kg	☼	82	23 - 131	8	20
Barium	39	B	10.1	45.4		mg/Kg	☼	64	10 - 199	5	20
Beryllium	0.35		10.1	8.51		mg/Kg	☼	81	58 - 112	4	20
Cadmium	3.8		10.1	10.2		mg/Kg	☼	63	58 - 110	3	20

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-1728-30 MSD
Matrix: Solid
Analysis Batch: 13699

Client Sample ID: LL1SB-645M-0101-SO
Prep Type: Total/NA
Prep Batch: 8922

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Calcium	9000	J	1010	9110	4	mg/Kg	☼	7	70 - 130	17	20
Chromium	29	J	10.1	29.9	J	mg/Kg	☼	4	10 - 199	2	20
Cobalt	5.4		10.1	14.3		mg/Kg	☼	88	55 - 110	3	20
Copper	22		10.1	22.9		mg/Kg	☼	13	10 - 199	8	20
Iron	19000	J	1010	18300	4	mg/Kg	☼	-25	70 - 130	6	20
Magnesium	1700		1010	2660		mg/Kg	☼	95	70 - 130	7	20
Nickel	20		10.1	25.4		mg/Kg	☼	55	10 - 176	3	20
Potassium	590		1010	1420		mg/Kg	☼	82	70 - 130	6	20
Selenium	0.44	J	10.1	7.13		mg/Kg	☼	66	39 - 116	3	20
Silver	0.018	J	10.1	9.22		mg/Kg	☼	91	75 - 125	5	20
Sodium	60	J	1010	1100		mg/Kg	☼	103	70 - 130	6	20
Thallium	0.12	J	10.1	7.79	J	mg/Kg	☼	76	82 - 110	29	20
Vanadium	8.1		10.1	17.1		mg/Kg	☼	89	39 - 129	4	20
Zinc	100	B J	10.1	83.7	4	mg/Kg	☼	-159	10 - 199	2	20

Lab Sample ID: MB 240-10075/1-A
Matrix: Water
Analysis Batch: 13699

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 10075

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	60	U	60	20	ug/L		07/28/11 11:13	08/29/11 11:33	1
Antimony	0.50	U	2.0	0.21	ug/L		07/28/11 11:13	08/29/11 11:33	1
Arsenic	1.0	U	5.0	0.44	ug/L		07/28/11 11:13	08/29/11 11:33	1
Barium	4.0	U	5.0	1.6	ug/L		07/28/11 11:13	08/29/11 11:33	1
Beryllium	0.10	U	1.0	0.033	ug/L		07/28/11 11:13	08/29/11 11:33	1
Cadmium	0.070	U	2.0	0.023	ug/L		07/28/11 11:13	08/29/11 11:33	1
Calcium	1000	U	2000	540	ug/L		07/28/11 11:13	08/29/11 11:33	1
Chromium	1.5	U	2.0	0.53	ug/L		07/28/11 11:13	08/29/11 11:33	1
Cobalt	0.090	U	1.0	0.030	ug/L		07/28/11 11:13	08/29/11 11:33	1
Copper	4.0	U	4.0	1.4	ug/L		07/28/11 11:13	08/29/11 11:33	1
Iron	100	U	150	44	ug/L		07/28/11 11:13	08/29/11 11:33	1
Lead	0.50	U	1.0	0.20	ug/L		07/28/11 11:13	08/29/11 11:33	1
Magnesium	300	U	1000	120	ug/L		07/28/11 11:13	08/29/11 11:33	1
Manganese	3.0	U	5.0	1.1	ug/L		07/28/11 11:13	08/29/11 11:33	1
Nickel	1.5	U	5.0	0.62	ug/L		07/28/11 11:13	08/29/11 11:33	1
Potassium	50	U	1000	16	ug/L		07/28/11 11:13	08/29/11 11:33	1
Selenium	0.50	U	5.0	0.20	ug/L		07/28/11 11:13	08/29/11 11:33	1
Silver	0.25	U	1.0	0.080	ug/L		07/28/11 11:13	08/29/11 11:33	1
Sodium	400	U	1000	160	ug/L		07/28/11 11:13	08/29/11 11:33	1
Thallium	1.0	U	2.0	0.32	ug/L		07/28/11 11:13	08/29/11 11:33	1
Vanadium	1.5	U	5.0	0.51	ug/L		07/28/11 11:13	08/29/11 11:33	1
Zinc	46.4		40	8.8	ug/L		07/28/11 11:13	08/29/11 11:33	1

Lab Sample ID: LCS 240-10075/2-A ^10
Matrix: Water
Analysis Batch: 13699

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 10075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	10000	10300	D	ug/L		103	80 - 120
Antimony	100	107	D	ug/L		107	80 - 120

Method: 6020/DOD - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-10075/2-A ^10
Matrix: Water
Analysis Batch: 13699

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 10075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	1000	1050	D	ug/L		105	80 - 120
Barium	1000	964	D	ug/L		96	80 - 120
Beryllium	1000	1030	D	ug/L		103	80 - 120
Cadmium	1000	1060	D	ug/L		106	80 - 120
Calcium	10000	10000	J D	ug/L		100	80 - 120
Chromium	1000	982	D	ug/L		98	80 - 120
Cobalt	1000	1020	D	ug/L		102	80 - 120
Copper	1000	1070	D	ug/L		107	80 - 120
Iron	10000	11200	D	ug/L		112	80 - 120
Lead	1000	952	D	ug/L		95	80 - 120
Magnesium	10000	10400	D	ug/L		104	80 - 120
Manganese	1000	1080	D	ug/L		108	80 - 120
Nickel	1000	1060	D	ug/L		106	80 - 120
Potassium	10000	10100	D	ug/L		101	80 - 120
Selenium	1000	1050	D	ug/L		105	80 - 120
Silver	100	109	D	ug/L		109	80 - 120
Sodium	10000	11100	D	ug/L		111	80 - 120
Thallium	1000	966	D	ug/L		97	80 - 120
Vanadium	1000	982	D	ug/L		98	80 - 120
Zinc	1000	1180	D	ug/L		118	80 - 120

Method: 7470A/DOD - Mercury (CVAA)

Lab Sample ID: MB 240-9905/1-A
Matrix: Water
Analysis Batch: 10288

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9905

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.20	U	0.20	0.12	ug/L		07/27/11 14:30	07/29/11 10:52	1

Lab Sample ID: LCS 240-9905/2-A
Matrix: Water
Analysis Batch: 10288

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Hg	5.00	4.91		ug/L		98	80 - 120

Lab Sample ID: 240-1728-48 MS
Matrix: Water
Analysis Batch: 10288

Client Sample ID: EQUIP RINSATE 2-1-11
Prep Type: Total/NA
Prep Batch: 9905

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Hg	0.20	U	1.00	0.959		ug/L		96	80 - 120

Lab Sample ID: 240-1728-48 MSD
Matrix: Water
Analysis Batch: 10288

Client Sample ID: EQUIP RINSATE 2-1-11
Prep Type: Total/NA
Prep Batch: 9905

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Hg	0.20	U	1.00	0.943		ug/L		94	80 - 120	2	20

Method: 7471/DOD - Mercury (CVAA)

Lab Sample ID: MB 240-8619/1-A
Matrix: Solid
Analysis Batch: 8899

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8619

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033	U	0.10	0.014	mg/Kg		07/15/11 15:30	07/18/11 16:40	1

Lab Sample ID: LCS 240-8619/2-A
Matrix: Solid
Analysis Batch: 8899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8619

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.833	0.840		mg/Kg		101	80 - 120

Lab Sample ID: 240-1728-14 MS
Matrix: Solid
Analysis Batch: 8899

Client Sample ID: LL2SS-516M-0001-SO
Prep Type: Total/NA
Prep Batch: 8619

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.023	J	0.170	0.200		mg/Kg	☼	104	80 - 120

Lab Sample ID: 240-1728-14 MSD
Matrix: Solid
Analysis Batch: 8899

Client Sample ID: LL2SS-516M-0001-SO
Prep Type: Total/NA
Prep Batch: 8619

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.023	J	0.170	0.194		mg/Kg	☼	101	80 - 120	3	20

Lab Sample ID: MB 240-8929/1-A
Matrix: Solid
Analysis Batch: 9552

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8929

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033	U	0.10	0.014	mg/Kg		07/19/11 14:45	07/22/11 18:18	1

Lab Sample ID: LCS 240-8929/2-A
Matrix: Solid
Analysis Batch: 9552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8929

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.833	0.956		mg/Kg		115	80 - 120

Lab Sample ID: 240-1728-30 MS
Matrix: Solid
Analysis Batch: 9552

Client Sample ID: LL1SB-645M-0101-SO
Prep Type: Total/NA
Prep Batch: 8929

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.021	J	0.158	0.200		mg/Kg	☼	114	80 - 120

Lab Sample ID: 240-1728-30 MSD
Matrix: Solid
Analysis Batch: 9552

Client Sample ID: LL1SB-645M-0101-SO
Prep Type: Total/NA
Prep Batch: 8929

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.021	J	0.158	0.206		mg/Kg	☼	118	80 - 120	3	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 240-7391/3
Matrix: Water
Analysis Batch: 7391

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	0.0040	U	0.020	0.0020	mg/L			07/06/11 17:03	1

Lab Sample ID: LCS 240-7391/4
Matrix: Water
Analysis Batch: 7391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Hexavalent chromium	0.250	0.271		mg/L		108	80 - 118

Lab Sample ID: 240-1728-48 MS
Matrix: Water
Analysis Batch: 7391

Client Sample ID: EQUIP RINSATE 2-1-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Hexavalent chromium	0.0040	U	0.250	0.274		mg/L		110	41 - 136

Lab Sample ID: 240-1728-48 MSD
Matrix: Water
Analysis Batch: 7391

Client Sample ID: EQUIP RINSATE 2-1-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Hexavalent chromium	0.0040	U	0.250	0.268		mg/L		107	41 - 136	2	20

Lab Sample ID: MB 240-8820/3-A
Matrix: Solid
Analysis Batch: 9165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8820

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	0.80	U	0.80	0.27	mg/Kg		07/18/11 14:13	07/20/11 00:00	1

Lab Sample ID: LCSI 240-8820/5-A
Matrix: Solid
Analysis Batch: 9165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8820

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	% Rec	% Rec. Limits
Hexavalent chromium	643	712		mg/Kg		111	75 - 125

Lab Sample ID: LCSS 240-8820/4-A
Matrix: Solid
Analysis Batch: 9165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8820

Analyte	Spike Added	LCSS Result	LCSS Qualifier	Unit	D	% Rec	% Rec. Limits
Hexavalent chromium	20.0	21.2		mg/Kg		106	90 - 110

Method: WS-WC-0050 - Nitrocellulose as N by WS-WC-0050

Lab Sample ID: G1G200000012B
Matrix: Solid
Analysis Batch: 1201012

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 1201012_P

Analyte	MB Result	MB Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	1.8 U		5.0	0.78	mg/kg		07/20/11 05:35	07/21/11 12:31	1

Lab Sample ID: G1G200000012C
Matrix: Solid
Analysis Batch: 1201012

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 1201012_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrocellulose	50.7	32.4		mg/kg		64	34 - 115

Lab Sample ID: 240-1728-14 MS
Matrix: Solid
Analysis Batch: 1201012

Client Sample ID: LL2SS-516M-0001-SO
Prep Type: Total
Prep Batch: 1201012_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrocellulose	0.85	J	51.1	11.3	N	mg/kg		20	34 - 115

Lab Sample ID: 240-1728-14 MSD
Matrix: Solid
Analysis Batch: 1201012

Client Sample ID: LL2SS-516M-0001-SO
Prep Type: Total
Prep Batch: 1201012_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Nitrocellulose	0.85	J	51.3	11.4	N	mg/kg		20	34 - 115	0.89	71

Lab Sample ID: G1G200000023B
Matrix: Water
Analysis Batch: 1201023

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 1201023_P

Analyte	MB Result	MB Qualifier	LOQ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	1.0 U		2.0	0.48	mg/L		07/20/11 08:00	07/21/11 13:23	1

Lab Sample ID: G1G200000023C
Matrix: Water
Analysis Batch: 1201023

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 1201023_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrocellulose	5.07	4.58		mg/L		90	26 - 144

GC/MS VOA

Analysis Batch: 8086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-5	LL3SD-416V-0001-SD	Total/NA	Solid	8260B/DoD	8134
240-1728-7	LL3SD-417V-0001-SD	Total/NA	Solid	8260B/DoD	8134
240-1728-15	LL2SS-516V-0001-SO	Total/NA	Solid	8260B/DoD	8134
240-1728-15 MS	LL2SS-516V-0001-SO	Total/NA	Solid	8260B/DoD	8134
240-1728-19	LL2SS-517V-0001-SO	Total/NA	Solid	8260B/DoD	8134
240-1728-25	LL1SB-644V-0101-SO	Total/NA	Solid	8260B/DoD	8123
240-1728-27	LL1SB-644V-0102-SO	Total/NA	Solid	8260B/DoD	8123
240-1728-29	LL1SB-644V-0103-SO	Total/NA	Solid	8260B/DoD	8123
240-1728-31	LL1SB-645V-0101-SO	Total/NA	Solid	8260B/DoD	8123
240-1728-33	LL1SB-645V-0102-SO	Total/NA	Solid	8260B/DoD	8123
240-1728-35	LL1SB-645V-0103-SO	Total/NA	Solid	8260B/DoD	8123
LCS 240-8123/2-A	Lab Control Sample	Total/NA	Solid	8260B/DoD	8123
LCS 240-8134/2-A	Lab Control Sample	Total/NA	Solid	8260B/DoD	8134
MB 240-8123/1-A	Method Blank	Total/NA	Solid	8260B/DoD	8123
MB 240-8134/1-A	Method Blank	Total/NA	Solid	8260B/DoD	8134

Prep Batch: 8123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-25	LL1SB-644V-0101-SO	Total/NA	Solid	5035	
240-1728-27	LL1SB-644V-0102-SO	Total/NA	Solid	5035	
240-1728-29	LL1SB-644V-0103-SO	Total/NA	Solid	5035	
240-1728-31	LL1SB-645V-0101-SO	Total/NA	Solid	5035	
240-1728-33	LL1SB-645V-0102-SO	Total/NA	Solid	5035	
240-1728-35	LL1SB-645V-0103-SO	Total/NA	Solid	5035	
LCS 240-8123/2-A	Lab Control Sample	Total/NA	Solid	5035	
MB 240-8123/1-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 8134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-5	LL3SD-416V-0001-SD	Total/NA	Solid	5035	
240-1728-7	LL3SD-417V-0001-SD	Total/NA	Solid	5035	
240-1728-15	LL2SS-516V-0001-SO	Total/NA	Solid	5035	
240-1728-15 MS	LL2SS-516V-0001-SO	Total/NA	Solid	5035	
240-1728-19	LL2SS-517V-0001-SO	Total/NA	Solid	5035	
240-1728-21	L12SS-300V-0001-SO	Total/NA	Solid	5035	
240-1728-23	L12SS-301V-0001-SO	Total/NA	Solid	5035	
LCS 240-8134/2-A	Lab Control Sample	Total/NA	Solid	5035	
MB 240-8134/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 8236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-21	L12SS-300V-0001-SO	Total/NA	Solid	8260B/DoD	8134
240-1728-23	L12SS-301V-0001-SO	Total/NA	Solid	8260B/DoD	8134

GC/MS Semi VOA

Prep Batch: 7492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-48	EQUIP RINSATE 2-1-11	Total/NA	Water	3520C	
LCS 240-7492/4-A	Lab Control Sample	Total/NA	Water	3520C	
MB 240-7492/3-A	Method Blank	Total/NA	Water	3520C	

GC/MS Semi VOA (Continued)

Leach Batch: 7765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-1	LL2SB-512M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1728-2	LL2SB-512M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1728-3	LL2SB-512M-0103-SO	Total/NA	Solid	Increm, Prep	
240-1728-4	LL3SD-416M-0001-SD	Total/NA	Solid	Increm, Prep	
240-1728-6	LL3SD-417M-0001-SD	Total/NA	Solid	Increm, Prep	
240-1728-8	LL3SS-419M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-8 MS	LL3SS-419M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-8 MSD	LL3SS-419M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-10	LL3SS-420M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-11	LL3SS-421M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-12	LL3SB-422M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-13	LL2SS-519M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-14	LL2SS-516M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-14 MS	LL2SS-516M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-14 MSD	LL2SS-516M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-18	LL2SS-517M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-20	L12SS-300M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-22	L12SS-301M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-24	LL1SB-644M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1728-26	LL1SB-644M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1728-28	LL1SB-644M-0103-SO	Total/NA	Solid	Increm, Prep	
240-1728-30	LL1SB-645M-0101-SO	Total/NA	Solid	Increm, Prep	

Leach Batch: 7766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-32	LL1SB-645M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1728-34	LL1SB-645M-0103-SO	Total/NA	Solid	Increm, Prep	
240-1728-36	LL1SB-643M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1728-37	LL1SB-643M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1728-38	LL1SB-643M-0103-SO	Total/NA	Solid	Increm, Prep	
240-1728-42	LL1SB-641M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1728-43	LL1SB-641M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1728-44	LL1SB-641M-0103-SO	Total/NA	Solid	Increm, Prep	
240-1728-45	LL1SB-642M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1728-46	LL1SB-642M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1728-47	LL1SB-642M-0103-SO	Total/NA	Solid	Increm, Prep	

Prep Batch: 8237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-1	LL2SB-512M-0101-SO	Total/NA	Solid	3540C	7765
240-1728-2	LL2SB-512M-0102-SO	Total/NA	Solid	3540C	7765
240-1728-3	LL2SB-512M-0103-SO	Total/NA	Solid	3540C	7765
240-1728-4	LL3SD-416M-0001-SD	Total/NA	Solid	3540C	7765
240-1728-6	LL3SD-417M-0001-SD	Total/NA	Solid	3540C	7765
240-1728-8	LL3SS-419M-0001-SO	Total/NA	Solid	3540C	7765
240-1728-8 MS	LL3SS-419M-0001-SO	Total/NA	Solid	3540C	7765
240-1728-8 MSD	LL3SS-419M-0001-SO	Total/NA	Solid	3540C	7765
240-1728-10	LL3SS-420M-0001-SO	Total/NA	Solid	3540C	7765
240-1728-11	LL3SS-421M-0001-SO	Total/NA	Solid	3540C	7765
240-1728-18	LL2SS-517M-0001-SO	Total/NA	Solid	3540C	7765
240-1728-20	L12SS-300M-0001-SO	Total/NA	Solid	3540C	7765
240-1728-22	L12SS-301M-0001-SO	Total/NA	Solid	3540C	7765

GC/MS Semi VOA (Continued)

Prep Batch: 8237 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-24	LL1SB-644M-0101-SO	Total/NA	Solid	3540C	7765
240-1728-26	LL1SB-644M-0102-SO	Total/NA	Solid	3540C	7765
240-1728-28	LL1SB-644M-0103-SO	Total/NA	Solid	3540C	7765
240-1728-30	LL1SB-645M-0101-SO	Total/NA	Solid	3540C	7765
240-1728-32	LL1SB-645M-0102-SO	Total/NA	Solid	3540C	7766
240-1728-34	LL1SB-645M-0103-SO	Total/NA	Solid	3540C	7766
240-1728-36	LL1SB-643M-0101-SO	Total/NA	Solid	3540C	7766
240-1728-37	LL1SB-643M-0102-SO	Total/NA	Solid	3540C	7766
240-1728-38	LL1SB-643M-0103-SO	Total/NA	Solid	3540C	7766
LCS 240-8237/24-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-8237/23-A	Method Blank	Total/NA	Solid	3540C	

Prep Batch: 8437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-12	LL3SB-422M-0001-SO	Total/NA	Solid	3540C	7765
240-1728-13	LL2SS-519M-0001-SO	Total/NA	Solid	3540C	7765
240-1728-14	LL2SS-516M-0001-SO	Total/NA	Solid	3540C	7765
240-1728-14 MS	LL2SS-516M-0001-SO	Total/NA	Solid	3540C	7765
240-1728-14 MSD	LL2SS-516M-0001-SO	Total/NA	Solid	3540C	7765
LCS 240-8437/14-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-8437/13-A	Method Blank	Total/NA	Solid	3540C	

Prep Batch: 8593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-42	LL1SB-641M-0101-SO	Total/NA	Solid	3540C	7766
240-1728-43	LL1SB-641M-0102-SO	Total/NA	Solid	3540C	7766
240-1728-44	LL1SB-641M-0103-SO	Total/NA	Solid	3540C	7766
240-1728-45	LL1SB-642M-0101-SO	Total/NA	Solid	3540C	7766
240-1728-46	LL1SB-642M-0102-SO	Total/NA	Solid	3540C	7766
240-1728-47	LL1SB-642M-0103-SO	Total/NA	Solid	3540C	7766
LCS 240-8593/16-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-8593/15-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 9106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-8593/16-A	Lab Control Sample	Total/NA	Solid	8270C/DoD	8593
MB 240-8593/15-A	Method Blank	Total/NA	Solid	8270C/DoD	8593

Analysis Batch: 9528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-8437/14-A	Lab Control Sample	Total/NA	Solid	8270C/DoD	8437
MB 240-8437/13-A	Method Blank	Total/NA	Solid	8270C/DoD	8437

Analysis Batch: 10257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-12	LL3SB-422M-0001-SO	Total/NA	Solid	8270C/DoD	8437
240-1728-13	LL2SS-519M-0001-SO	Total/NA	Solid	8270C/DoD	8437
240-1728-42	LL1SB-641M-0101-SO	Total/NA	Solid	8270C/DoD	8593
240-1728-43	LL1SB-641M-0102-SO	Total/NA	Solid	8270C/DoD	8593
240-1728-44	LL1SB-641M-0103-SO	Total/NA	Solid	8270C/DoD	8593
240-1728-45	LL1SB-642M-0101-SO	Total/NA	Solid	8270C/DoD	8593
240-1728-46	LL1SB-642M-0102-SO	Total/NA	Solid	8270C/DoD	8593

GC/MS Semi VOA (Continued)

Analysis Batch: 10257 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-47	LL1SB-642M-0103-SO	Total/NA	Solid	8270C/DoD	8593

Analysis Batch: 10338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-14	LL2SS-516M-0001-SO	Total/NA	Solid	8270C/DoD	8437
240-1728-14 MS	LL2SS-516M-0001-SO	Total/NA	Solid	8270C/DoD	8437
240-1728-14 MSD	LL2SS-516M-0001-SO	Total/NA	Solid	8270C/DoD	8437

Analysis Batch: 10479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-1	LL2SB-512M-0101-SO	Total/NA	Solid	8270C/DoD	8237
240-1728-2	LL2SB-512M-0102-SO	Total/NA	Solid	8270C/DoD	8237
240-1728-3	LL2SB-512M-0103-SO	Total/NA	Solid	8270C/DoD	8237
240-1728-4	LL3SD-416M-0001-SD	Total/NA	Solid	8270C/DoD	8237
240-1728-6	LL3SD-417M-0001-SD	Total/NA	Solid	8270C/DoD	8237
240-1728-8	LL3SS-419M-0001-SO	Total/NA	Solid	8270C/DoD	8237
240-1728-8 MS	LL3SS-419M-0001-SO	Total/NA	Solid	8270C/DoD	8237
240-1728-8 MSD	LL3SS-419M-0001-SO	Total/NA	Solid	8270C/DoD	8237
240-1728-11	LL3SS-421M-0001-SO	Total/NA	Solid	8270C/DoD	8237
240-1728-18	LL2SS-517M-0001-SO	Total/NA	Solid	8270C/DoD	8237
240-1728-20	L12SS-300M-0001-SO	Total/NA	Solid	8270C/DoD	8237
240-1728-22	L12SS-301M-0001-SO	Total/NA	Solid	8270C/DoD	8237
240-1728-24	LL1SB-644M-0101-SO	Total/NA	Solid	8270C/DoD	8237
240-1728-28	LL1SB-644M-0103-SO	Total/NA	Solid	8270C/DoD	8237
240-1728-30	LL1SB-645M-0101-SO	Total/NA	Solid	8270C/DoD	8237
240-1728-34	LL1SB-645M-0103-SO	Total/NA	Solid	8270C/DoD	8237
240-1728-36	LL1SB-643M-0101-SO	Total/NA	Solid	8270C/DoD	8237
240-1728-37	LL1SB-643M-0102-SO	Total/NA	Solid	8270C/DoD	8237
240-1728-38	LL1SB-643M-0103-SO	Total/NA	Solid	8270C/DoD	8237
LCS 240-8237/24-A	Lab Control Sample	Total/NA	Solid	8270C/DoD	8237
MB 240-8237/23-A	Method Blank	Total/NA	Solid	8270C/DoD	8237

Analysis Batch: 11019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-48	EQUIP RINSATE 2-1-11	Total/NA	Water	8270C/DoD	7492
LCS 240-7492/4-A	Lab Control Sample	Total/NA	Water	8270C/DoD	7492
MB 240-7492/3-A	Method Blank	Total/NA	Water	8270C/DoD	7492

Analysis Batch: 11269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-10	LL3SS-420M-0001-SO	Total/NA	Solid	8270C/DoD	8237
240-1728-26	LL1SB-644M-0102-SO	Total/NA	Solid	8270C/DoD	8237
240-1728-32	LL1SB-645M-0102-SO	Total/NA	Solid	8270C/DoD	8237

GC Semi VOA

Leach Batch: 7765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-4	LL3SD-416M-0001-SD	Total/NA	Solid	Increm, Prep	
240-1728-6	LL3SD-417M-0001-SD	Total/NA	Solid	Increm, Prep	
240-1728-13	LL2SS-519M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-14	LL2SS-516M-0001-SO	Total/NA	Solid	Increm, Prep	

GC Semi VOA (Continued)

Leach Batch: 7765 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-14 MS	LL2SS-516M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-14 MSD	LL2SS-516M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-18	LL2SS-517M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-20	L12SS-300M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-22	L12SS-301M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-24	LL1SB-644M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1728-26	LL1SB-644M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1728-28	LL1SB-644M-0103-SO	Total/NA	Solid	Increm, Prep	
240-1728-30	LL1SB-645M-0101-SO	Total/NA	Solid	Increm, Prep	

Leach Batch: 7766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-32	LL1SB-645M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1728-32 MS	LL1SB-645M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1728-32 MSD	LL1SB-645M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1728-34	LL1SB-645M-0103-SO	Total/NA	Solid	Increm, Prep	
240-1728-34 MS	LL1SB-645M-0103-SO	Total/NA	Solid	Increm, Prep	
240-1728-34 MSD	LL1SB-645M-0103-SO	Total/NA	Solid	Increm, Prep	

Prep Batch: 7786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-48	EQUIP RINSATE 2-1-11	Total/NA	Water	3520C	
LCS 240-7786/4-A	Lab Control Sample	Total/NA	Water	3520C	
MB 240-7786/3-A	Method Blank	Total/NA	Water	3520C	

Prep Batch: 7787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-48	EQUIP RINSATE 2-1-11	Total/NA	Water	3520C	
LCS 240-7787/4-A	Lab Control Sample	Total/NA	Water	3520C	
MB 240-7787/3-A	Method Blank	Total/NA	Water	3520C	

Prep Batch: 8260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-4	LL3SD-416M-0001-SD	Total/NA	Solid	3540C	7765
240-1728-6	LL3SD-417M-0001-SD	Total/NA	Solid	3540C	7765
240-1728-18	LL2SS-517M-0001-SO	Total/NA	Solid	3540C	7765
240-1728-20	L12SS-300M-0001-SO	Total/NA	Solid	3540C	7765
240-1728-22	L12SS-301M-0001-SO	Total/NA	Solid	3540C	7765
240-1728-24	LL1SB-644M-0101-SO	Total/NA	Solid	3540C	7765
240-1728-26	LL1SB-644M-0102-SO	Total/NA	Solid	3540C	7765
240-1728-28	LL1SB-644M-0103-SO	Total/NA	Solid	3540C	7765
240-1728-30	LL1SB-645M-0101-SO	Total/NA	Solid	3540C	7765
240-1728-32	LL1SB-645M-0102-SO	Total/NA	Solid	3540C	7766
240-1728-34	LL1SB-645M-0103-SO	Total/NA	Solid	3540C	7766
240-1728-34 MS	LL1SB-645M-0103-SO	Total/NA	Solid	3540C	7766
240-1728-34 MSD	LL1SB-645M-0103-SO	Total/NA	Solid	3540C	7766
LCS 240-8260/14-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-8260/15-A	Method Blank	Total/NA	Solid	3540C	

Prep Batch: 8270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-4	LL3SD-416M-0001-SD	Total/NA	Solid	3540C	7765

GC Semi VOA (Continued)

Prep Batch: 8270 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-6	LL3SD-417M-0001-SD	Total/NA	Solid	3540C	7765
240-1728-18	LL2SS-517M-0001-SO	Total/NA	Solid	3540C	7765
240-1728-20	L12SS-300M-0001-SO	Total/NA	Solid	3540C	7765
240-1728-22	L12SS-301M-0001-SO	Total/NA	Solid	3540C	7765
240-1728-24	LL1SB-644M-0101-SO	Total/NA	Solid	3540C	7765
240-1728-26	LL1SB-644M-0102-SO	Total/NA	Solid	3540C	7765
240-1728-28	LL1SB-644M-0103-SO	Total/NA	Solid	3540C	7765
240-1728-30	LL1SB-645M-0101-SO	Total/NA	Solid	3540C	7765
240-1728-32	LL1SB-645M-0102-SO	Total/NA	Solid	3540C	7766
240-1728-32 MS	LL1SB-645M-0102-SO	Total/NA	Solid	3540C	7766
240-1728-32 MSD	LL1SB-645M-0102-SO	Total/NA	Solid	3540C	7766
240-1728-34	LL1SB-645M-0103-SO	Total/NA	Solid	3540C	7766
LCS 240-8270/15-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-8270/14-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 8509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-48	EQUIP RINSATE 2-1-11	Total/NA	Water	8082/DOD	7786
LCS 240-7786/4-A	Lab Control Sample	Total/NA	Water	8082/DOD	7786
MB 240-7786/3-A	Method Blank	Total/NA	Water	8082/DOD	7786

Prep Batch: 8599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-13	LL2SS-519M-0001-SO	Total/NA	Solid	3540C	7765
240-1728-14	LL2SS-516M-0001-SO	Total/NA	Solid	3540C	7765
240-1728-14 MS	LL2SS-516M-0001-SO	Total/NA	Solid	3540C	7765
240-1728-14 MSD	LL2SS-516M-0001-SO	Total/NA	Solid	3540C	7765
LCS 240-8599/11-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-8599/10-A	Method Blank	Total/NA	Solid	3540C	

Prep Batch: 8605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-14	LL2SS-516M-0001-SO	Total/NA	Solid	3540C	7765
240-1728-14 MS	LL2SS-516M-0001-SO	Total/NA	Solid	3540C	7765
240-1728-14 MSD	LL2SS-516M-0001-SO	Total/NA	Solid	3540C	7765
LCS 240-8605/10-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-8605/9-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 9102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-4	LL3SD-416M-0001-SD	Total/NA	Solid	8082/DOD	8270
240-1728-6	LL3SD-417M-0001-SD	Total/NA	Solid	8082/DOD	8270
240-1728-18	LL2SS-517M-0001-SO	Total/NA	Solid	8082/DOD	8270
240-1728-20	L12SS-300M-0001-SO	Total/NA	Solid	8082/DOD	8270
240-1728-22	L12SS-301M-0001-SO	Total/NA	Solid	8082/DOD	8270
240-1728-24	LL1SB-644M-0101-SO	Total/NA	Solid	8082/DOD	8270
MB 240-8270/14-A	Method Blank	Total/NA	Solid	8082/DOD	8270

Analysis Batch: 9453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-13	LL2SS-519M-0001-SO	Total/NA	Solid	8082/DOD	8599
240-1728-14	LL2SS-516M-0001-SO	Total/NA	Solid	8082/DOD	8599

GC Semi VOA (Continued)

Analysis Batch: 9453 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-14 MS	LL2SS-516M-0001-SO	Total/NA	Solid	8082/DOD	8599
240-1728-14 MSD	LL2SS-516M-0001-SO	Total/NA	Solid	8082/DOD	8599
LCS 240-8599/11-A	Lab Control Sample	Total/NA	Solid	8082/DOD	8599
MB 240-8599/10-A	Method Blank	Total/NA	Solid	8082/DOD	8599

Analysis Batch: 9463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-26	LL1SB-644M-0102-SO	Total/NA	Solid	8082/DOD	8270
240-1728-28	LL1SB-644M-0103-SO	Total/NA	Solid	8082/DOD	8270
240-1728-30	LL1SB-645M-0101-SO	Total/NA	Solid	8082/DOD	8270
240-1728-32	LL1SB-645M-0102-SO	Total/NA	Solid	8082/DOD	8270
240-1728-32 MS	LL1SB-645M-0102-SO	Total/NA	Solid	8082/DOD	8270
240-1728-32 MSD	LL1SB-645M-0102-SO	Total/NA	Solid	8082/DOD	8270
240-1728-34	LL1SB-645M-0103-SO	Total/NA	Solid	8082/DOD	8270
LCS 240-8270/15-A	Lab Control Sample	Total/NA	Solid	8082/DOD	8270

Analysis Batch: 10137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-48	EQUIP RINSATE 2-1-11	Total/NA	Water	8081/DOD	7787
LCS 240-7787/4-A	Lab Control Sample	Total/NA	Water	8081/DOD	7787
MB 240-7787/3-A	Method Blank	Total/NA	Water	8081/DOD	7787

Analysis Batch: 10329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-6	LL3SD-417M-0001-SD	Total/NA	Solid	8081/DOD	8260
240-1728-18	LL2SS-517M-0001-SO	Total/NA	Solid	8081/DOD	8260
240-1728-20	L12SS-300M-0001-SO	Total/NA	Solid	8081/DOD	8260
240-1728-22	L12SS-301M-0001-SO	Total/NA	Solid	8081/DOD	8260
240-1728-24	LL1SB-644M-0101-SO	Total/NA	Solid	8081/DOD	8260
240-1728-30	LL1SB-645M-0101-SO	Total/NA	Solid	8081/DOD	8260
240-1728-34	LL1SB-645M-0103-SO	Total/NA	Solid	8081/DOD	8260
240-1728-34 MS	LL1SB-645M-0103-SO	Total/NA	Solid	8081/DOD	8260
240-1728-34 MSD	LL1SB-645M-0103-SO	Total/NA	Solid	8081/DOD	8260
LCS 240-8260/14-A	Lab Control Sample	Total/NA	Solid	8081/DOD	8260
MB 240-8260/15-A	Method Blank	Total/NA	Solid	8081/DOD	8260

Analysis Batch: 10598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-14	LL2SS-516M-0001-SO	Total/NA	Solid	8081/DOD	8605
240-1728-14 MS	LL2SS-516M-0001-SO	Total/NA	Solid	8081/DOD	8605
240-1728-14 MSD	LL2SS-516M-0001-SO	Total/NA	Solid	8081/DOD	8605
LCS 240-8605/10-A	Lab Control Sample	Total/NA	Solid	8081/DOD	8605
MB 240-8605/9-A	Method Blank	Total/NA	Solid	8081/DOD	8605

Analysis Batch: 10912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-4	LL3SD-416M-0001-SD	Total/NA	Solid	8081/DOD	8260
240-1728-26	LL1SB-644M-0102-SO	Total/NA	Solid	8081/DOD	8260
240-1728-28	LL1SB-644M-0103-SO	Total/NA	Solid	8081/DOD	8260
240-1728-32	LL1SB-645M-0102-SO	Total/NA	Solid	8081/DOD	8260

HPLC

Analysis Batch: 1193068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-48	EQUIP RINSATE 2-1-11	Total	Water	8330/8330A	
G1G120000068B	Method Blank	Total	Water	8330/8330A	
G1G120000068C	Lab Control Sample	Total	Water	8330/8330A	

Analysis Batch: 1196121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-4	LL3SD-416M-0001-SD	Total	Solid	8330 (Modified)	
240-1728-6	LL3SD-417M-0001-SD	Total	Solid	8330 (Modified)	
240-1728-14	LL2SS-516M-0001-SO	Total	Solid	8330 (Modified)	
240-1728-14 MS	LL2SS-516M-0001-SO	Total	Solid	8330 (Modified)	
240-1728-14 MSD	LL2SS-516M-0001-SO	Total	Solid	8330 (Modified)	
240-1728-18	LL2SS-517M-0001-SO	Total	Solid	8330 (Modified)	
240-1728-20	L12SS-300M-0001-SO	Total	Solid	8330 (Modified)	
240-1728-22	L12SS-301M-0001-SO	Total	Solid	8330 (Modified)	
240-1728-24	LL1SB-644M-0101-SO	Total	Solid	8330 (Modified)	
240-1728-26	LL1SB-644M-0102-SO	Total	Solid	8330 (Modified)	
240-1728-28	LL1SB-644M-0103-SO	Total	Solid	8330 (Modified)	
240-1728-30	LL1SB-645M-0101-SO	Total	Solid	8330 (Modified)	
240-1728-32	LL1SB-645M-0102-SO	Total	Solid	8330 (Modified)	
240-1728-34	LL1SB-645M-0103-SO	Total	Solid	8330 (Modified)	
G1G150000121B	Method Blank	Total	Solid	8330 (Modified)	
G1G150000121C	Lab Control Sample	Total	Solid	8330 (Modified)	

Analysis Batch: 1196123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-4	LL3SD-416M-0001-SD	Total	Solid	8330/8330A	
240-1728-6	LL3SD-417M-0001-SD	Total	Solid	8330/8330A	
240-1728-14	LL2SS-516M-0001-SO	Total	Solid	8330/8330A	
240-1728-14 MS	LL2SS-516M-0001-SO	Total	Solid	8330/8330A	
240-1728-14 MSD	LL2SS-516M-0001-SO	Total	Solid	8330/8330A	
240-1728-18	LL2SS-517M-0001-SO	Total	Solid	8330/8330A	
240-1728-20	L12SS-300M-0001-SO	Total	Solid	8330/8330A	
240-1728-22	L12SS-301M-0001-SO	Total	Solid	8330/8330A	
240-1728-24	LL1SB-644M-0101-SO	Total	Solid	8330/8330A	
240-1728-26	LL1SB-644M-0102-SO	Total	Solid	8330/8330A	
240-1728-28	LL1SB-644M-0103-SO	Total	Solid	8330/8330A	
240-1728-30	LL1SB-645M-0101-SO	Total	Solid	8330/8330A	
240-1728-32	LL1SB-645M-0102-SO	Total	Solid	8330/8330A	
240-1728-34	LL1SB-645M-0103-SO	Total	Solid	8330/8330A	
240-1728-39	LL1SB-640M-0101-SO	Total	Solid	8330/8330A	
240-1728-40	LL1SB-640M-0102-SO	Total	Solid	8330/8330A	
240-1728-41	LL1SB-640M-0103-SO	Total	Solid	8330/8330A	
G1G150000123B	Method Blank	Total	Solid	8330/8330A	
G1G150000123C	Lab Control Sample	Total	Solid	8330/8330A	

Analysis Batch: 1201051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-48	EQUIP RINSATE 2-1-11	Dissolved	Water	8330 (Modified)	
G1G200000051B	Method Blank	Dissolved	Water	8330 (Modified)	
G1G200000051C	Lab Control Sample	Dissolved	Water	8330 (Modified)	

HPLC (Continued)

Prep Batch: 1193068_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-48	EQUIP RINSATE 2-1-11	Total	Water	3535	
G1G120000068B	Method Blank	Total	Water	3535	
G1G120000068C	Lab Control Sample	Total	Water	3535	

Prep Batch: 1196121_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-4	LL3SD-416M-0001-SD	Total	Solid	3550A	
240-1728-6	LL3SD-417M-0001-SD	Total	Solid	3550A	
240-1728-14	LL2SS-516M-0001-SO	Total	Solid	3550A	
240-1728-14 MS	LL2SS-516M-0001-SO	Total	Solid	3550A	
240-1728-14 MSD	LL2SS-516M-0001-SO	Total	Solid	3550A	
240-1728-18	LL2SS-517M-0001-SO	Total	Solid	3550A	
240-1728-20	L12SS-300M-0001-SO	Total	Solid	3550A	
240-1728-22	L12SS-301M-0001-SO	Total	Solid	3550A	
240-1728-24	LL1SB-644M-0101-SO	Total	Solid	3550A	
240-1728-26	LL1SB-644M-0102-SO	Total	Solid	3550A	
240-1728-28	LL1SB-644M-0103-SO	Total	Solid	3550A	
240-1728-30	LL1SB-645M-0101-SO	Total	Solid	3550A	
240-1728-32	LL1SB-645M-0102-SO	Total	Solid	3550A	
240-1728-34	LL1SB-645M-0103-SO	Total	Solid	3550A	
G1G150000121B	Method Blank	Total	Solid	3550A	
G1G150000121C	Lab Control Sample	Total	Solid	3550A	

Prep Batch: 1196123_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-4	LL3SD-416M-0001-SD	Total	Solid	8330	
240-1728-6	LL3SD-417M-0001-SD	Total	Solid	8330	
240-1728-14	LL2SS-516M-0001-SO	Total	Solid	8330	
240-1728-14 MS	LL2SS-516M-0001-SO	Total	Solid	8330	
240-1728-14 MSD	LL2SS-516M-0001-SO	Total	Solid	8330	
240-1728-18	LL2SS-517M-0001-SO	Total	Solid	8330	
240-1728-20	L12SS-300M-0001-SO	Total	Solid	8330	
240-1728-22	L12SS-301M-0001-SO	Total	Solid	8330	
240-1728-24	LL1SB-644M-0101-SO	Total	Solid	8330	
240-1728-26	LL1SB-644M-0102-SO	Total	Solid	8330	
240-1728-28	LL1SB-644M-0103-SO	Total	Solid	8330	
240-1728-30	LL1SB-645M-0101-SO	Total	Solid	8330	
240-1728-32	LL1SB-645M-0102-SO	Total	Solid	8330	
240-1728-34	LL1SB-645M-0103-SO	Total	Solid	8330	
240-1728-39	LL1SB-640M-0101-SO	Total	Solid	8330	
240-1728-40	LL1SB-640M-0102-SO	Total	Solid	8330	
240-1728-41	LL1SB-640M-0103-SO	Total	Solid	8330	
G1G150000123B	Method Blank	Total	Solid	8330	
G1G150000123C	Lab Control Sample	Total	Solid	8330	

Prep Batch: 1201051_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-48	EQUIP RINSATE 2-1-11	Dissolved	Water	FILTRATION (DISS)	
G1G200000051B	Method Blank	Dissolved	Water	FILTRATION (DISS)	
G1G200000051C	Lab Control Sample	Dissolved	Water	FILTRATION (DISS)	

Metals

Leach Batch: 7765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-4	LL3SD-416M-0001-SD	Total/NA	Solid	Increm, Prep	
240-1728-6	LL3SD-417M-0001-SD	Total/NA	Solid	Increm, Prep	
240-1728-14	LL2SS-516M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-14 MS	LL2SS-516M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-14 MSD	LL2SS-516M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-18	LL2SS-517M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-20	L12SS-300M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-22	L12SS-301M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-24	LL1SB-644M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1728-26	LL1SB-644M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1728-28	LL1SB-644M-0103-SO	Total/NA	Solid	Increm, Prep	
240-1728-30	LL1SB-645M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1728-30 MS	LL1SB-645M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1728-30 MSD	LL1SB-645M-0101-SO	Total/NA	Solid	Increm, Prep	

Leach Batch: 7766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-32	LL1SB-645M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1728-34	LL1SB-645M-0103-SO	Total/NA	Solid	Increm, Prep	

Prep Batch: 8611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-4	LL3SD-416M-0001-SD	Total/NA	Solid	3050B	7765
240-1728-6	LL3SD-417M-0001-SD	Total/NA	Solid	3050B	7765
240-1728-14	LL2SS-516M-0001-SO	Total/NA	Solid	3050B	7765
240-1728-14 MS	LL2SS-516M-0001-SO	Total/NA	Solid	3050B	7765
240-1728-14 MSD	LL2SS-516M-0001-SO	Total/NA	Solid	3050B	7765
240-1728-18	LL2SS-517M-0001-SO	Total/NA	Solid	3050B	7765
240-1728-20	L12SS-300M-0001-SO	Total/NA	Solid	3050B	7765
240-1728-22	L12SS-301M-0001-SO	Total/NA	Solid	3050B	7765
240-1728-24	LL1SB-644M-0101-SO	Total/NA	Solid	3050B	7765
240-1728-26	LL1SB-644M-0102-SO	Total/NA	Solid	3050B	7765
240-1728-28	LL1SB-644M-0103-SO	Total/NA	Solid	3050B	7765
240-1728-32	LL1SB-645M-0102-SO	Total/NA	Solid	3050B	7766
240-1728-34	LL1SB-645M-0103-SO	Total/NA	Solid	3050B	7766
LCS 240-8611/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 240-8611/2-A ^10	Lab Control Sample	Total/NA	Solid	3050B	
MB 240-8611/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 8619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-4	LL3SD-416M-0001-SD	Total/NA	Solid	7471A	7765
240-1728-6	LL3SD-417M-0001-SD	Total/NA	Solid	7471A	7765
240-1728-14	LL2SS-516M-0001-SO	Total/NA	Solid	7471A	7765
240-1728-14 MS	LL2SS-516M-0001-SO	Total/NA	Solid	7471A	7765
240-1728-14 MSD	LL2SS-516M-0001-SO	Total/NA	Solid	7471A	7765
240-1728-18	LL2SS-517M-0001-SO	Total/NA	Solid	7471A	7765
240-1728-20	L12SS-300M-0001-SO	Total/NA	Solid	7471A	7765
240-1728-22	L12SS-301M-0001-SO	Total/NA	Solid	7471A	7765
240-1728-24	LL1SB-644M-0101-SO	Total/NA	Solid	7471A	7765
240-1728-26	LL1SB-644M-0102-SO	Total/NA	Solid	7471A	7765
240-1728-28	LL1SB-644M-0103-SO	Total/NA	Solid	7471A	7765

Metals (Continued)

Prep Batch: 8619 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-32	LL1SB-645M-0102-SO	Total/NA	Solid	7471A	7766
240-1728-34	LL1SB-645M-0103-SO	Total/NA	Solid	7471A	7766
LCS 240-8619/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 240-8619/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 8899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-4	LL3SD-416M-0001-SD	Total/NA	Solid	7471/DOD	8619
240-1728-6	LL3SD-417M-0001-SD	Total/NA	Solid	7471/DOD	8619
240-1728-14	LL2SS-516M-0001-SO	Total/NA	Solid	7471/DOD	8619
240-1728-14 MS	LL2SS-516M-0001-SO	Total/NA	Solid	7471/DOD	8619
240-1728-14 MSD	LL2SS-516M-0001-SO	Total/NA	Solid	7471/DOD	8619
240-1728-18	LL2SS-517M-0001-SO	Total/NA	Solid	7471/DOD	8619
240-1728-20	L12SS-300M-0001-SO	Total/NA	Solid	7471/DOD	8619
240-1728-22	L12SS-301M-0001-SO	Total/NA	Solid	7471/DOD	8619
240-1728-24	LL1SB-644M-0101-SO	Total/NA	Solid	7471/DOD	8619
240-1728-26	LL1SB-644M-0102-SO	Total/NA	Solid	7471/DOD	8619
240-1728-28	LL1SB-644M-0103-SO	Total/NA	Solid	7471/DOD	8619
240-1728-32	LL1SB-645M-0102-SO	Total/NA	Solid	7471/DOD	8619
240-1728-34	LL1SB-645M-0103-SO	Total/NA	Solid	7471/DOD	8619
LCS 240-8619/2-A	Lab Control Sample	Total/NA	Solid	7471/DOD	8619
MB 240-8619/1-A	Method Blank	Total/NA	Solid	7471/DOD	8619

Prep Batch: 8922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-30	LL1SB-645M-0101-SO	Total/NA	Solid	3050B	7765
240-1728-30 MS	LL1SB-645M-0101-SO	Total/NA	Solid	3050B	7765
240-1728-30 MSD	LL1SB-645M-0101-SO	Total/NA	Solid	3050B	7765
LCS 240-8922/2-A ^10	Lab Control Sample	Total/NA	Solid	3050B	
MB 240-8922/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 8929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-30	LL1SB-645M-0101-SO	Total/NA	Solid	7471A	7765
240-1728-30 MS	LL1SB-645M-0101-SO	Total/NA	Solid	7471A	7765
240-1728-30 MSD	LL1SB-645M-0101-SO	Total/NA	Solid	7471A	7765
LCS 240-8929/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 240-8929/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 9552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-30	LL1SB-645M-0101-SO	Total/NA	Solid	7471/DOD	8929
240-1728-30 MS	LL1SB-645M-0101-SO	Total/NA	Solid	7471/DOD	8929
240-1728-30 MSD	LL1SB-645M-0101-SO	Total/NA	Solid	7471/DOD	8929
LCS 240-8929/2-A	Lab Control Sample	Total/NA	Solid	7471/DOD	8929
MB 240-8929/1-A	Method Blank	Total/NA	Solid	7471/DOD	8929

Prep Batch: 9905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-48	EQUIP RINSATE 2-1-11	Total/NA	Water	7470A	
240-1728-48 MS	EQUIP RINSATE 2-1-11	Total/NA	Water	7470A	
240-1728-48 MSD	EQUIP RINSATE 2-1-11	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 9905 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-9905/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 240-9905/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 10075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-48	EQUIP RINSATE 2-1-11	Total Recoverable	Water	3005A	
LCS 240-10075/2-A ^10	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-10075/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 10288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-48	EQUIP RINSATE 2-1-11	Total/NA	Water	7470A/DOD	9905
240-1728-48 MS	EQUIP RINSATE 2-1-11	Total/NA	Water	7470A/DOD	9905
240-1728-48 MSD	EQUIP RINSATE 2-1-11	Total/NA	Water	7470A/DOD	9905
LCS 240-9905/2-A	Lab Control Sample	Total/NA	Water	7470A/DOD	9905
MB 240-9905/1-A	Method Blank	Total/NA	Water	7470A/DOD	9905

Analysis Batch: 13699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-4	LL3SD-416M-0001-SD	Total/NA	Solid	6020/DOD	8611
240-1728-6	LL3SD-417M-0001-SD	Total/NA	Solid	6020/DOD	8611
240-1728-14	LL2SS-516M-0001-SO	Total/NA	Solid	6020/DOD	8611
240-1728-14 MS	LL2SS-516M-0001-SO	Total/NA	Solid	6020/DOD	8611
240-1728-14 MSD	LL2SS-516M-0001-SO	Total/NA	Solid	6020/DOD	8611
240-1728-18	LL2SS-517M-0001-SO	Total/NA	Solid	6020/DOD	8611
240-1728-20	L12SS-300M-0001-SO	Total/NA	Solid	6020/DOD	8611
240-1728-22	L12SS-301M-0001-SO	Total/NA	Solid	6020/DOD	8611
240-1728-24	LL1SB-644M-0101-SO	Total/NA	Solid	6020/DOD	8611
240-1728-26	LL1SB-644M-0102-SO	Total/NA	Solid	6020/DOD	8611
240-1728-28	LL1SB-644M-0103-SO	Total/NA	Solid	6020/DOD	8611
240-1728-30	LL1SB-645M-0101-SO	Total/NA	Solid	6020/DOD	8922
240-1728-30	LL1SB-645M-0101-SO	Total/NA	Solid	6020/DOD	8922
240-1728-30 MS	LL1SB-645M-0101-SO	Total/NA	Solid	6020/DOD	8922
240-1728-30 MSD	LL1SB-645M-0101-SO	Total/NA	Solid	6020/DOD	8922
240-1728-32	LL1SB-645M-0102-SO	Total/NA	Solid	6020/DOD	8611
240-1728-34	LL1SB-645M-0103-SO	Total/NA	Solid	6020/DOD	8611
240-1728-48	EQUIP RINSATE 2-1-11	Total Recoverable	Water	6020/DOD	10075
LCS 240-10075/2-A ^10	Lab Control Sample	Total Recoverable	Water	6020/DOD	10075
LCS 240-8611/2-A ^10	Lab Control Sample	Total/NA	Solid	6020/DOD	8611
LCS 240-8922/2-A ^10	Lab Control Sample	Total/NA	Solid	6020/DOD	8922
MB 240-10075/1-A	Method Blank	Total Recoverable	Water	6020/DOD	10075
MB 240-8611/1-A	Method Blank	Total/NA	Solid	6020/DOD	8611
MB 240-8922/1-A	Method Blank	Total/NA	Solid	6020/DOD	8922

Analysis Batch: 13778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-4	LL3SD-416M-0001-SD	Total/NA	Solid	6020/DOD	8611
240-1728-6	LL3SD-417M-0001-SD	Total/NA	Solid	6020/DOD	8611
240-1728-14	LL2SS-516M-0001-SO	Total/NA	Solid	6020/DOD	8611
240-1728-14 MS	LL2SS-516M-0001-SO	Total/NA	Solid	6020/DOD	8611
240-1728-14 MSD	LL2SS-516M-0001-SO	Total/NA	Solid	6020/DOD	8611
240-1728-18	LL2SS-517M-0001-SO	Total/NA	Solid	6020/DOD	8611

Metals (Continued)

Analysis Batch: 13778 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-20	L12SS-300M-0001-SO	Total/NA	Solid	6020/DOD	8611
240-1728-22	L12SS-301M-0001-SO	Total/NA	Solid	6020/DOD	8611
240-1728-24	LL1SB-644M-0101-SO	Total/NA	Solid	6020/DOD	8611
240-1728-26	LL1SB-644M-0102-SO	Total/NA	Solid	6020/DOD	8611
240-1728-28	LL1SB-644M-0103-SO	Total/NA	Solid	6020/DOD	8611
240-1728-32	LL1SB-645M-0102-SO	Total/NA	Solid	6020/DOD	8611
240-1728-34	LL1SB-645M-0103-SO	Total/NA	Solid	6020/DOD	8611
LCS 240-8611/2-A	Lab Control Sample	Total/NA	Solid	6020/DOD	8611
MB 240-8611/1-A	Method Blank	Total/NA	Solid	6020/DOD	8611

Prep Batch: 14048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-14	LL2SS-516M-0001-SO	Total/NA	Solid	3050B	7765
240-1728-14 MS	LL2SS-516M-0001-SO	Total/NA	Solid	3050B	7765
240-1728-14 MSD	LL2SS-516M-0001-SO	Total/NA	Solid	3050B	7765
LCS 240-14048/2-A ^10	Lab Control Sample	Total/NA	Solid	3050B	
MB 240-14048/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 14738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-14	LL2SS-516M-0001-SO	Total/NA	Solid	6020/DOD	14048
240-1728-14 MS	LL2SS-516M-0001-SO	Total/NA	Solid	6020/DOD	14048
240-1728-14 MSD	LL2SS-516M-0001-SO	Total/NA	Solid	6020/DOD	14048
LCS 240-14048/2-A ^10	Lab Control Sample	Total/NA	Solid	6020/DOD	14048
MB 240-14048/1-A	Method Blank	Total/NA	Solid	6020/DOD	14048

General Chemistry

Analysis Batch: 7391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-48	EQUIP RINSATE 2-1-11	Total/NA	Water	7196A	
240-1728-48 MS	EQUIP RINSATE 2-1-11	Total/NA	Water	7196A	
240-1728-48 MSD	EQUIP RINSATE 2-1-11	Total/NA	Water	7196A	
LCS 240-7391/4	Lab Control Sample	Total/NA	Water	7196A	
MB 240-7391/3	Method Blank	Total/NA	Water	7196A	

Analysis Batch: 7732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-5	LL3SD-416V-0001-SD	Total/NA	Solid	Moisture	
240-1728-7	LL3SD-417V-0001-SD	Total/NA	Solid	Moisture	
240-1728-15	LL2SS-516V-0001-SO	Total/NA	Solid	Moisture	
240-1728-15 DU	LL2SS-516V-0001-SO	Total/NA	Solid	Moisture	
240-1728-19	LL2SS-517V-0001-SO	Total/NA	Solid	Moisture	
240-1728-21	L12SS-300V-0001-SO	Total/NA	Solid	Moisture	
240-1728-23	L12SS-301V-0001-SO	Total/NA	Solid	Moisture	

Leach Batch: 7765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-4	LL3SD-416M-0001-SD	Total/NA	Solid	Increm, Prep	
240-1728-6	LL3SD-417M-0001-SD	Total/NA	Solid	Increm, Prep	
240-1728-14	LL2SS-516M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-18	LL2SS-517M-0001-SO	Total/NA	Solid	Increm, Prep	

General Chemistry (Continued)

Leach Batch: 7765 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-20	L12SS-300M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-22	L12SS-301M-0001-SO	Total/NA	Solid	Increm, Prep	
240-1728-24	LL1SB-644M-0101-SO	Total/NA	Solid	Increm, Prep	
240-1728-26	LL1SB-644M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1728-28	LL1SB-644M-0103-SO	Total/NA	Solid	Increm, Prep	
240-1728-30	LL1SB-645M-0101-SO	Total/NA	Solid	Increm, Prep	

Leach Batch: 7766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-32	LL1SB-645M-0102-SO	Total/NA	Solid	Increm, Prep	
240-1728-34	LL1SB-645M-0103-SO	Total/NA	Solid	Increm, Prep	

Analysis Batch: 8263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-1	LL2SB-512M-0101-SO	Total/NA	Solid	Moisture	
240-1728-1 DU	LL2SB-512M-0101-SO	Total/NA	Solid	Moisture	
240-1728-2	LL2SB-512M-0102-SO	Total/NA	Solid	Moisture	
240-1728-3	LL2SB-512M-0103-SO	Total/NA	Solid	Moisture	
240-1728-4	LL3SD-416M-0001-SD	Total/NA	Solid	Moisture	
240-1728-6	LL3SD-417M-0001-SD	Total/NA	Solid	Moisture	
240-1728-8	LL3SS-419M-0001-SO	Total/NA	Solid	Moisture	
240-1728-8 DU	LL3SS-419M-0001-SO	Total/NA	Solid	Moisture	
240-1728-10	LL3SS-420M-0001-SO	Total/NA	Solid	Moisture	
240-1728-11	LL3SS-421M-0001-SO	Total/NA	Solid	Moisture	
240-1728-14	LL2SS-516M-0001-SO	Total/NA	Solid	Moisture	
240-1728-14 DU	LL2SS-516M-0001-SO	Total/NA	Solid	Moisture	
240-1728-20	L12SS-300M-0001-SO	Total/NA	Solid	Moisture	
240-1728-22	L12SS-301M-0001-SO	Total/NA	Solid	Moisture	
240-1728-22 DU	L12SS-301M-0001-SO	Total/NA	Solid	Moisture	

Analysis Batch: 8464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-12	LL3SB-422M-0001-SO	Total/NA	Solid	Moisture	
240-1728-12 DU	LL3SB-422M-0001-SO	Total/NA	Solid	Moisture	
240-1728-13	LL2SS-519M-0001-SO	Total/NA	Solid	Moisture	
240-1728-18	LL2SS-517M-0001-SO	Total/NA	Solid	Moisture	
240-1728-24	LL1SB-644M-0101-SO	Total/NA	Solid	Moisture	
240-1728-26	LL1SB-644M-0102-SO	Total/NA	Solid	Moisture	
240-1728-28	LL1SB-644M-0103-SO	Total/NA	Solid	Moisture	
240-1728-30	LL1SB-645M-0101-SO	Total/NA	Solid	Moisture	
240-1728-30 DU	LL1SB-645M-0101-SO	Total/NA	Solid	Moisture	
240-1728-32	LL1SB-645M-0102-SO	Total/NA	Solid	Moisture	
240-1728-34	LL1SB-645M-0103-SO	Total/NA	Solid	Moisture	
240-1728-36	LL1SB-643M-0101-SO	Total/NA	Solid	Moisture	
240-1728-37	LL1SB-643M-0102-SO	Total/NA	Solid	Moisture	
240-1728-37 DU	LL1SB-643M-0102-SO	Total/NA	Solid	Moisture	
240-1728-38	LL1SB-643M-0103-SO	Total/NA	Solid	Moisture	
240-1728-39	LL1SB-640M-0101-SO	Total/NA	Solid	Moisture	
240-1728-40	LL1SB-640M-0102-SO	Total/NA	Solid	Moisture	
240-1728-41	LL1SB-640M-0103-SO	Total/NA	Solid	Moisture	
240-1728-42	LL1SB-641M-0101-SO	Total/NA	Solid	Moisture	
240-1728-43	LL1SB-641M-0102-SO	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 8464 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-44	LL1SB-641M-0103-SO	Total/NA	Solid	Moisture	
240-1728-45	LL1SB-642M-0101-SO	Total/NA	Solid	Moisture	
240-1728-46	LL1SB-642M-0102-SO	Total/NA	Solid	Moisture	
240-1728-46 DU	LL1SB-642M-0102-SO	Total/NA	Solid	Moisture	
240-1728-47	LL1SB-642M-0103-SO	Total/NA	Solid	Moisture	

Prep Batch: 8820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-4	LL3SD-416M-0001-SD	Total/NA	Solid	3060A	7765
240-1728-6	LL3SD-417M-0001-SD	Total/NA	Solid	3060A	7765
240-1728-14	LL2SS-516M-0001-SO	Total/NA	Solid	3060A	7765
240-1728-18	LL2SS-517M-0001-SO	Total/NA	Solid	3060A	7765
240-1728-20	L12SS-300M-0001-SO	Total/NA	Solid	3060A	7765
240-1728-22	L12SS-301M-0001-SO	Total/NA	Solid	3060A	7765
240-1728-24	LL1SB-644M-0101-SO	Total/NA	Solid	3060A	7765
240-1728-26	LL1SB-644M-0102-SO	Total/NA	Solid	3060A	7765
240-1728-28	LL1SB-644M-0103-SO	Total/NA	Solid	3060A	7765
240-1728-30	LL1SB-645M-0101-SO	Total/NA	Solid	3060A	7765
240-1728-32	LL1SB-645M-0102-SO	Total/NA	Solid	3060A	7766
240-1728-34	LL1SB-645M-0103-SO	Total/NA	Solid	3060A	7766
LCSI 240-8820/5-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSS 240-8820/4-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 240-8820/3-A	Method Blank	Total/NA	Solid	3060A	

Analysis Batch: 9165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-4	LL3SD-416M-0001-SD	Total/NA	Solid	7196A	8820
240-1728-6	LL3SD-417M-0001-SD	Total/NA	Solid	7196A	8820
240-1728-14	LL2SS-516M-0001-SO	Total/NA	Solid	7196A	8820
240-1728-18	LL2SS-517M-0001-SO	Total/NA	Solid	7196A	8820
240-1728-20	L12SS-300M-0001-SO	Total/NA	Solid	7196A	8820
240-1728-22	L12SS-301M-0001-SO	Total/NA	Solid	7196A	8820
240-1728-24	LL1SB-644M-0101-SO	Total/NA	Solid	7196A	8820
240-1728-26	LL1SB-644M-0102-SO	Total/NA	Solid	7196A	8820
240-1728-28	LL1SB-644M-0103-SO	Total/NA	Solid	7196A	8820
240-1728-30	LL1SB-645M-0101-SO	Total/NA	Solid	7196A	8820
240-1728-32	LL1SB-645M-0102-SO	Total/NA	Solid	7196A	8820
240-1728-34	LL1SB-645M-0103-SO	Total/NA	Solid	7196A	8820
LCSI 240-8820/5-A	Lab Control Sample	Total/NA	Solid	7196A	8820
LCSS 240-8820/4-A	Lab Control Sample	Total/NA	Solid	7196A	8820
MB 240-8820/3-A	Method Blank	Total/NA	Solid	7196A	8820

Analysis Batch: 1201012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-4	LL3SD-416M-0001-SD	Total	Solid	WS-WC-0050	
240-1728-6	LL3SD-417M-0001-SD	Total	Solid	WS-WC-0050	
240-1728-14	LL2SS-516M-0001-SO	Total	Solid	WS-WC-0050	
240-1728-14 MS	LL2SS-516M-0001-SO	Total	Solid	WS-WC-0050	
240-1728-14 MSD	LL2SS-516M-0001-SO	Total	Solid	WS-WC-0050	
240-1728-18	LL2SS-517M-0001-SO	Total	Solid	WS-WC-0050	
240-1728-20	L12SS-300M-0001-SO	Total	Solid	WS-WC-0050	
240-1728-22	L12SS-301M-0001-SO	Total	Solid	WS-WC-0050	

General Chemistry (Continued)

Analysis Batch: 1201012 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-24	LL1SB-644M-0101-SO	Total	Solid	WS-WC-0050	
240-1728-26	LL1SB-644M-0102-SO	Total	Solid	WS-WC-0050	
240-1728-28	LL1SB-644M-0103-SO	Total	Solid	WS-WC-0050	
240-1728-30	LL1SB-645M-0101-SO	Total	Solid	WS-WC-0050	
240-1728-32	LL1SB-645M-0102-SO	Total	Solid	WS-WC-0050	
240-1728-34	LL1SB-645M-0103-SO	Total	Solid	WS-WC-0050	
G1G200000012B	Method Blank	Total	Solid	WS-WC-0050	
G1G200000012C	Lab Control Sample	Total	Solid	WS-WC-0050	

Analysis Batch: 1201023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-48	EQUIP RINSATE 2-1-11	Total	Water	WS-WC-0050	
G1G200000023B	Method Blank	Total	Water	WS-WC-0050	
G1G200000023C	Lab Control Sample	Total	Water	WS-WC-0050	

Analysis Batch: 1207150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-4	LL3SD-416M-0001-SD	Total	Solid	D 2216-90	
240-1728-6	LL3SD-417M-0001-SD	Total	Solid	D 2216-90	
240-1728-14	LL2SS-516M-0001-SO	Total	Solid	D 2216-90	
240-1728-18	LL2SS-517M-0001-SO	Total	Solid	D 2216-90	
240-1728-20	L12SS-300M-0001-SO	Total	Solid	D 2216-90	
240-1728-22	L12SS-301M-0001-SO	Total	Solid	D 2216-90	
240-1728-24	LL1SB-644M-0101-SO	Total	Solid	D 2216-90	
240-1728-26	LL1SB-644M-0102-SO	Total	Solid	D 2216-90	
240-1728-28	LL1SB-644M-0103-SO	Total	Solid	D 2216-90	
240-1728-30	LL1SB-645M-0101-SO	Total	Solid	D 2216-90	
240-1728-32	LL1SB-645M-0102-SO	Total	Solid	D 2216-90	
240-1728-34	LL1SB-645M-0103-SO	Total	Solid	D 2216-90	
G1G140492001X	LL3SD-416M-0001-SD DUP	Total	Solid	D 2216-90	

Prep Batch: 1201012_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-4	LL3SD-416M-0001-SD	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	
240-1728-6	LL3SD-417M-0001-SD	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	
240-1728-14	LL2SS-516M-0001-SO	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	
240-1728-14 MS	LL2SS-516M-0001-SO	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	
240-1728-14 MSD	LL2SS-516M-0001-SO	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	
240-1728-18	LL2SS-517M-0001-SO	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	
240-1728-20	L12SS-300M-0001-SO	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	

General Chemistry (Continued)

Prep Batch: 1201012_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-22	L12SS-301M-0001-SO	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	
240-1728-24	LL1SB-644M-0101-SO	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	
240-1728-26	LL1SB-644M-0102-SO	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	
240-1728-28	LL1SB-644M-0103-SO	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	
240-1728-30	LL1SB-645M-0101-SO	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	
240-1728-32	LL1SB-645M-0102-SO	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	
240-1728-34	LL1SB-645M-0103-SO	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	
G1G200000012B	Method Blank	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	
G1G200000012C	Lab Control Sample	Total	Solid	EXTRACTION, SOLID/SOLVENT (Manual)	

Prep Batch: 1201023_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-1728-48	EQUIP RINSATE 2-1-11	Total	Water	EXTRACTION, SOLID PHASE	
G1G200000023B	Method Blank	Total	Water	EXTRACTION, SOLID PHASE	
G1G200000023C	Lab Control Sample	Total	Water	EXTRACTION, SOLID PHASE	

Client Sample ID: LL2SB-512M-0101-SO

Lab Sample ID: 240-1728-1

Date Collected: 07/01/11 15:50

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8237	07/13/11 11:10	SM	TAL NC
Total/NA	Analysis	8270C/DoD		1	10479	08/01/11 19:30	MU	TAL NC
Total/NA	Analysis	Moisture		1	8263	07/13/11 12:47	CN	TAL NC

Client Sample ID: LL2SB-512M-0102-SO

Lab Sample ID: 240-1728-2

Date Collected: 07/01/11 15:50

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8237	07/13/11 11:10	SM	TAL NC
Total/NA	Analysis	8270C/DoD		1	10479	08/01/11 13:13	MU	TAL NC
Total/NA	Analysis	Moisture		1	8263	07/13/11 12:47	CN	TAL NC

Client Sample ID: LL2SB-512M-0103-SO

Lab Sample ID: 240-1728-3

Date Collected: 07/01/11 15:50

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8237	07/13/11 11:10	SM	TAL NC
Total/NA	Analysis	8270C/DoD		1	10479	08/01/11 13:32	MU	TAL NC
Total/NA	Analysis	Moisture		1	8263	07/13/11 12:47	CN	TAL NC

Client Sample ID: LL3SD-416M-0001-SD

Lab Sample ID: 240-1728-4

Date Collected: 07/02/11 08:50

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8237	07/13/11 11:10	SM	TAL NC
Total/NA	Analysis	8270C/DoD		20	10479	08/01/11 18:52	MU	TAL NC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8260	07/13/11 12:29	BM	TAL NC
Total/NA	Analysis	8081/DOD		50	10912	08/04/11 21:05	CV	TAL NC
Total/NA	Prep	3540C			8270	07/13/11 13:31	BM	TAL NC
Total/NA	Analysis	8082/DOD		1	9102	07/20/11 20:30	LH	TAL NC
Total	Prep	3550A			1196121_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330 (Modified)		0.98	1196121	07/27/11 16:41	NS	TAL WSC
Total	Prep	8330			1196123_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330/8330A		0.99	1196123	07/29/11 02:47	NS	TAL WSC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3050B			8611	07/15/11 12:40	DE	TAL NC
Total/NA	Analysis	6020/DOD		10	13699	08/29/11 14:16	NJM	TAL NC

Client Sample ID: LL3SD-416M-0001-SD

Lab Sample ID: 240-1728-4

Date Collected: 07/02/11 08:50
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	6020/DOD		1	13778	08/25/11 22:49	NJM	TAL NC
Total/NA	Prep	7471A			8619	07/15/11 15:30	DE	TAL NC
Total/NA	Analysis	7471/DOD		1	8899	07/18/11 17:06	BD	TAL NC
Total/NA	Analysis	Moisture		1	8263	07/13/11 12:47	CN	TAL NC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3060A			8820	07/18/11 14:13	LG	TAL NC
Total/NA	Analysis	7196A		1	9165	07/20/11 16:15	JM	TAL NC
Total	Prep	EXTRACTION, SOLID/SOLVENT (Manual)			1201012_P	07/20/11 05:35	HJA	TAL WSC
Total	Analysis	WS-WC-0050		1	1201012	07/21/11 12:43	JR	TAL WSC
Total	Analysis	D 2216-90		1	1207150	07/27/11 11:29	KG	TAL WSC

Client Sample ID: LL3SD-416V-0001-SD

Lab Sample ID: 240-1728-5

Date Collected: 07/02/11 08:50
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8134	07/12/11 15:40	TS	TAL NC
Total/NA	Analysis	8260B/DoD		1	8086	07/12/11 21:37	SM	TAL NC
Total/NA	Analysis	Moisture		1	7732	07/08/11 13:35	AM	TAL NC

Client Sample ID: LL3SD-417M-0001-SD

Lab Sample ID: 240-1728-6

Date Collected: 07/02/11 08:50
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8237	07/13/11 11:10	SM	TAL NC
Total/NA	Analysis	8270C/DoD		6.667	10479	08/01/11 18:15	MU	TAL NC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8260	07/13/11 12:29	BM	TAL NC
Total/NA	Analysis	8081/DOD		50	10329	07/31/11 00:13	CR	TAL NC
Total/NA	Prep	3540C			8270	07/13/11 13:31	BM	TAL NC
Total/NA	Analysis	8082/DOD		1	9102	07/20/11 20:45	LH	TAL NC
Total	Prep	3550A			1196121_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330 (Modified)		0.97	1196121	07/27/11 16:55	NS	TAL WSC
Total	Prep	8330			1196123_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330/8330A		0.96	1196123	07/29/11 03:27	NS	TAL WSC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3050B			8611	07/15/11 12:40	DE	TAL NC
Total/NA	Analysis	6020/DOD		10	13699	08/29/11 14:51	NJM	TAL NC
Total/NA	Analysis	6020/DOD		1	13778	08/25/11 23:24	NJM	TAL NC
Total/NA	Prep	7471A			8619	07/15/11 15:30	DE	TAL NC
Total/NA	Analysis	7471/DOD		1	8899	07/18/11 17:13	BD	TAL NC

Client Sample ID: LL3SD-417M-0001-SD

Lab Sample ID: 240-1728-6

Date Collected: 07/02/11 08:50

Matrix: Solid

Date Received: 07/06/11 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	8263	07/13/11 12:47	CN	TAL NC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3060A			8820	07/18/11 14:13	LG	TAL NC
Total/NA	Analysis	7196A		1	9165	07/20/11 16:16	JM	TAL NC
Total	Prep	EXTRACTION, SOLID/SOLVENT (Manual)			1201012_P	07/20/11 05:35	HJA	TAL WSC
Total	Analysis	WS-WC-0050		1	1201012	07/21/11 12:45	JR	TAL WSC
Total	Analysis	D 2216-90		1	1207150	07/27/11 11:29	KG	TAL WSC

Client Sample ID: LL3SD-417V-0001-SD

Lab Sample ID: 240-1728-7

Date Collected: 07/02/11 08:50

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8134	07/12/11 15:40	TS	TAL NC
Total/NA	Analysis	8260B/DoD		1	8086	07/12/11 21:58	SM	TAL NC
Total/NA	Analysis	Moisture		1	7732	07/08/11 13:35	AM	TAL NC

Client Sample ID: LL3SS-419M-0001-SO

Lab Sample ID: 240-1728-8

Date Collected: 07/02/11 12:30

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 99.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8237	07/13/11 11:10	SM	TAL NC
Total/NA	Analysis	8270C/DoD		2	10479	08/01/11 15:07	MU	TAL NC
Total/NA	Analysis	Moisture		1	8263	07/13/11 18:08	CN	TAL NC

Client Sample ID: LL3SS-420M-0001-SO

Lab Sample ID: 240-1728-10

Date Collected: 07/02/11 12:30

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8237	07/13/11 11:10	SM	TAL NC
Total/NA	Analysis	8270C/DoD		1	11269	08/08/11 16:41	MU	TAL NC
Total/NA	Analysis	Moisture		1	8263	07/13/11 18:08	CN	TAL NC

Client Sample ID: LL3SS-421M-0001-SO

Lab Sample ID: 240-1728-11

Date Collected: 07/02/11 15:00

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 97.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC

Client Sample ID: LL3SS-421M-0001-SO

Lab Sample ID: 240-1728-11

Date Collected: 07/02/11 15:00
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 97.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			8237	07/13/11 11:10	SM	TAL NC
Total/NA	Analysis	8270C/DoD		1	10479	08/01/11 19:49	MU	TAL NC
Total/NA	Analysis	Moisture		1	8263	07/13/11 18:08	CN	TAL NC

Client Sample ID: LL3SB-422M-0001-SO

Lab Sample ID: 240-1728-12

Date Collected: 07/02/11 15:00
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8437	07/14/11 10:52	AK	TAL NC
Total/NA	Analysis	8270C/DoD		1	10257	07/29/11 19:49	MU	TAL NC
Total/NA	Analysis	Moisture		1	8464	07/14/11 13:19	CN	TAL NC

Client Sample ID: LL2SS-519M-0001-SO

Lab Sample ID: 240-1728-13

Date Collected: 07/02/11 16:15
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8437	07/14/11 10:52	AK	TAL NC
Total/NA	Analysis	8270C/DoD		1	10257	07/29/11 20:08	MU	TAL NC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8599	07/15/11 11:34	SM	TAL NC
Total/NA	Analysis	8082/DOD		5	9453	07/22/11 18:21	LH	TAL NC
Total/NA	Analysis	Moisture		1	8464	07/14/11 13:19	CN	TAL NC

Client Sample ID: LL2SS-516M-0001-SO

Lab Sample ID: 240-1728-14

Date Collected: 07/03/11 09:45
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8437	07/14/11 10:52	AK	TAL NC
Total/NA	Analysis	8270C/DoD		4	10338	07/30/11 19:53	MU	TAL NC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8605	07/15/11 12:19	SM	TAL NC
Total/NA	Analysis	8081/DOD		20	10598	08/02/11 21:35	CV	TAL NC
Total/NA	Prep	3540C			8599	07/15/11 11:34	SM	TAL NC
Total/NA	Analysis	8082/DOD		5	9453	07/22/11 18:36	LH	TAL NC
Total	Prep	3550A			1196121_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330 (Modified)		0.98	1196121	07/27/11 17:09	NS	TAL WSC
Total	Prep	8330			1196123_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330/8330A		1	1196123	07/29/11 04:07	NS	TAL WSC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC

Client Sample ID: LL2SS-516M-0001-SO

Lab Sample ID: 240-1728-14

Date Collected: 07/03/11 09:45

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			8611	07/15/11 12:40	DE	TAL NC
Total/NA	Analysis	6020/DOD		5	13699	08/29/11 13:49	NJM	TAL NC
Total/NA	Analysis	6020/DOD		1	13778	08/25/11 22:20	NJM	TAL NC
Total/NA	Prep	3050B			14048	09/01/11 09:48	DE	TAL NC
Total/NA	Analysis	6020/DOD		1	14738	09/08/11 10:53	KC	TAL NC
Total/NA	Prep	7471A			8619	07/15/11 15:30	DE	TAL NC
Total/NA	Analysis	7471/DOD		1	8899	07/18/11 17:02	BD	TAL NC
Total/NA	Analysis	Moisture		1	8263	07/13/11 18:08	CN	TAL NC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3060A			8820	07/18/11 14:13	LG	TAL NC
Total/NA	Analysis	7196A		1	9165	07/20/11 16:20	JM	TAL NC
Total	Prep	EXTRACTION, SOLID/SOLVENT (Manual)			1201012_P	07/20/11 05:35	HJA	TAL WSC
Total	Analysis	WS-WC-0050		1	1201012	07/21/11 12:47	JR	TAL WSC
Total	Analysis	D 2216-90		1	1207150	07/27/11 11:30	KG	TAL WSC

Client Sample ID: LL2SS-516V-0001-SO

Lab Sample ID: 240-1728-15

Date Collected: 07/03/11 09:50

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8134	07/12/11 15:40	TS	TAL NC
Total/NA	Analysis	8260B/DoD		1	8086	07/12/11 22:20	SM	TAL NC
Total/NA	Analysis	Moisture		1	7732	07/08/11 13:35	AM	TAL NC

Client Sample ID: LL2SS-517M-0001-SO

Lab Sample ID: 240-1728-18

Date Collected: 07/03/11 09:45

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8237	07/13/11 11:10	SM	TAL NC
Total/NA	Analysis	8270C/DoD		4	10479	08/01/11 18:34	MU	TAL NC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8260	07/13/11 12:29	BM	TAL NC
Total/NA	Analysis	8081/DOD		50	10329	07/31/11 00:43	CR	TAL NC
Total/NA	Prep	3540C			8270	07/13/11 13:31	BM	TAL NC
Total/NA	Analysis	8082/DOD		1	9102	07/20/11 20:59	LH	TAL NC
Total	Prep	3550A			1196121_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330 (Modified)		1	1196121	07/27/11 17:52	NS	TAL WSC
Total	Prep	8330			1196123_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330/8330A		1	1196123	07/29/11 06:07	NS	TAL WSC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3050B			8611	07/15/11 12:40	DE	TAL NC

Client Sample ID: LL2SS-517M-0001-SO

Lab Sample ID: 240-1728-18

Date Collected: 07/03/11 09:45
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	6020/DOD		10	13699	08/29/11 14:46	NJM	TAL NC
Total/NA	Analysis	6020/DOD		1	13778	08/25/11 23:19	NJM	TAL NC
Total/NA	Prep	7471A			8619	07/15/11 15:30	DE	TAL NC
Total/NA	Analysis	7471/DOD		1	8899	07/18/11 17:12	BD	TAL NC
Total/NA	Analysis	Moisture		1	8464	07/14/11 13:19	CN	TAL NC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3060A			8820	07/18/11 14:13	LG	TAL NC
Total/NA	Analysis	7196A		1	9165	07/20/11 16:21	JM	TAL NC
Total	Prep	EXTRACTION, SOLID/SOLVENT (Manual)			1201012_P	07/20/11 05:35	HJA	TAL WSC
Total	Analysis	WS-WC-0050		1	1201012	07/21/11 12:59	JR	TAL WSC
Total	Analysis	D 2216-90		1	1207150	07/27/11 11:30	KG	TAL WSC

Client Sample ID: LL2SS-517V-0001-SO

Lab Sample ID: 240-1728-19

Date Collected: 07/03/11 09:50
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8134	07/12/11 15:40	TS	TAL NC
Total/NA	Analysis	8260B/DoD		1	8086	07/12/11 23:02	SM	TAL NC
Total/NA	Analysis	Moisture		1	7732	07/08/11 13:35	AM	TAL NC

Client Sample ID: L12SS-300M-0001-SO

Lab Sample ID: 240-1728-20

Date Collected: 07/03/11 11:15
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8237	07/13/11 11:10	SM	TAL NC
Total/NA	Analysis	8270C/DoD		12.5	10479	08/01/11 17:56	MU	TAL NC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8260	07/13/11 12:29	BM	TAL NC
Total/NA	Analysis	8081/DOD		50	10329	07/31/11 01:13	CR	TAL NC
Total/NA	Prep	3540C			8270	07/13/11 13:31	BM	TAL NC
Total/NA	Analysis	8082/DOD		5	9102	07/20/11 21:14	LH	TAL NC
Total	Prep	3550A			1196121_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330 (Modified)		1	1196121	07/27/11 18:21	NS	TAL WSC
Total	Prep	8330			1196123_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330/8330A		0.97	1196123	07/29/11 06:47	NS	TAL WSC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3050B			8611	07/15/11 12:40	DE	TAL NC
Total/NA	Analysis	6020/DOD		10	13699	08/29/11 15:05	NJM	TAL NC
Total/NA	Analysis	6020/DOD		1	13778	08/25/11 23:33	NJM	TAL NC
Total/NA	Prep	7471A			8619	07/15/11 15:30	DE	TAL NC

Client Sample ID: L12SS-300M-0001-SO

Lab Sample ID: 240-1728-20

Date Collected: 07/03/11 11:15
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	7471/DOD		1	8899	07/18/11 17:19	BD	TAL NC
Total/NA	Analysis	Moisture		1	8263	07/13/11 18:08	CN	TAL NC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3060A			8820	07/18/11 14:13	LG	TAL NC
Total/NA	Analysis	7196A		1	9165	07/20/11 16:28	JM	TAL NC
Total	Prep	EXTRACTION, SOLID/SOLVENT (Manual)			1201012_P	07/20/11 05:35	HJA	TAL WSC
Total	Analysis	WS-WC-0050		1	1201012	07/21/11 13:01	JR	TAL WSC
Total	Analysis	D 2216-90		1	1207150	07/27/11 11:30	KG	TAL WSC

Client Sample ID: L12SS-300V-0001-SO

Lab Sample ID: 240-1728-21

Date Collected: 07/03/11 11:20
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8134	07/12/11 15:40	TS	TAL NC
Total/NA	Analysis	8260B/DoD		1	8236	07/13/11 13:12	SM	TAL NC
Total/NA	Analysis	Moisture		1	7732	07/08/11 13:35	AM	TAL NC

Client Sample ID: L12SS-301M-0001-SO

Lab Sample ID: 240-1728-22

Date Collected: 07/03/11 11:15
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 97.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8237	07/13/11 11:10	SM	TAL NC
Total/NA	Analysis	8270C/DoD		20	10479	08/01/11 17:37	MU	TAL NC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8260	07/13/11 12:29	BM	TAL NC
Total/NA	Analysis	8081/DOD		50	10329	07/31/11 01:43	CR	TAL NC
Total/NA	Prep	3540C			8270	07/13/11 13:31	BM	TAL NC
Total/NA	Analysis	8082/DOD		5	9102	07/20/11 21:29	LH	TAL NC
Total	Prep	3550A			1196121_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330 (Modified)		0.99	1196121	07/27/11 18:35	NS	TAL WSC
Total	Prep	8330			1196123_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330/8330A		1	1196123	07/29/11 07:28	NS	TAL WSC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3050B			8611	07/15/11 12:40	DE	TAL NC
Total/NA	Analysis	6020/DOD		10	13699	08/29/11 14:55	NJM	TAL NC
Total/NA	Analysis	6020/DOD		1	13778	08/25/11 23:29	NJM	TAL NC
Total/NA	Prep	7471A			8619	07/15/11 15:30	DE	TAL NC
Total/NA	Analysis	7471/DOD		1	8899	07/18/11 17:14	BD	TAL NC
Total/NA	Analysis	Moisture		1	8263	07/13/11 18:08	CN	TAL NC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC

Client Sample ID: L12SS-301M-0001-SO

Lab Sample ID: 240-1728-22

Date Collected: 07/03/11 11:15

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 97.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			8820	07/18/11 14:13	LG	TAL NC
Total/NA	Analysis	7196A		1	9165	07/20/11 16:29	JM	TAL NC
Total	Prep	EXTRACTION, SOLID/SOLVENT (Manual)			1201012_P	07/20/11 05:35	HJA	TAL WSC
Total	Analysis	WS-WC-0050		1	1201012	07/21/11 13:03	JR	TAL WSC
Total	Analysis	D 2216-90		1	1207150	07/27/11 11:30	KG	TAL WSC

Client Sample ID: L12SS-301V-0001-SO

Lab Sample ID: 240-1728-23

Date Collected: 07/03/11 11:20

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8134	07/12/11 15:40	TS	TAL NC
Total/NA	Analysis	8260B/DoD		1	8236	07/13/11 13:34	SM	TAL NC
Total/NA	Analysis	Moisture		1	7732	07/08/11 13:35	AM	TAL NC

Client Sample ID: LL1SB-644M-0101-SO

Lab Sample ID: 240-1728-24

Date Collected: 07/05/11 11:00

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 99.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8237	07/13/11 11:10	SM	TAL NC
Total/NA	Analysis	8270C/DoD		1	10479	08/01/11 16:03	MU	TAL NC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8260	07/13/11 12:29	BM	TAL NC
Total/NA	Analysis	8081/DOD		5	10329	07/31/11 02:12	CR	TAL NC
Total/NA	Prep	3540C			8270	07/13/11 13:31	BM	TAL NC
Total/NA	Analysis	8082/DOD		5	9102	07/20/11 21:44	LH	TAL NC
Total	Prep	3550A			1196121_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330 (Modified)		0.98	1196121	07/27/11 18:50	NS	TAL WSC
Total	Prep	8330			1196123_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330/8330A		0.97	1196123	07/28/11 04:45	NS	TAL WSC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3050B			8611	07/15/11 12:40	DE	TAL NC
Total/NA	Analysis	6020/DOD		5	13699	08/29/11 14:21	NJM	TAL NC
Total/NA	Analysis	6020/DOD		1	13778	08/25/11 22:54	NJM	TAL NC
Total/NA	Prep	7471A			8619	07/15/11 15:30	DE	TAL NC
Total/NA	Analysis	7471/DOD		1	8899	07/18/11 17:08	BD	TAL NC
Total/NA	Analysis	Moisture		1	8464	07/14/11 13:19	CN	TAL NC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3060A			8820	07/18/11 14:13	LG	TAL NC
Total/NA	Analysis	7196A		1	9165	07/20/11 16:32	JM	TAL NC

Client Sample ID: LL1SB-644M-0101-SO

Lab Sample ID: 240-1728-24

Date Collected: 07/05/11 11:00

Matrix: Solid

Date Received: 07/06/11 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EXTRACTION, SOLID/SOLVENT (Manual)			1201012_P	07/20/11 05:35	HJA	TAL WSC
Total	Analysis	WS-WC-0050		1	1201012	07/21/11 13:05	JR	TAL WSC
Total	Analysis	D 2216-90		1	1207150	07/27/11 11:30	KG	TAL WSC

Client Sample ID: LL1SB-644V-0101-SO

Lab Sample ID: 240-1728-25

Date Collected: 07/05/11 11:09

Matrix: Solid

Date Received: 07/06/11 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8123	07/12/11 14:55	TS	TAL NC
Total/NA	Analysis	8260B/DoD		1	8086	07/12/11 18:46	SM	TAL NC

Client Sample ID: LL1SB-644M-0102-SO

Lab Sample ID: 240-1728-26

Date Collected: 07/05/11 10:57

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8237	07/13/11 11:10	SM	TAL NC
Total/NA	Analysis	8270C/DoD		1	11269	08/08/11 17:00	MU	TAL NC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8260	07/13/11 12:29	BM	TAL NC
Total/NA	Analysis	8081/DOD		20	10912	08/04/11 21:36	CV	TAL NC
Total/NA	Prep	3540C			8270	07/13/11 13:31	BM	TAL NC
Total/NA	Analysis	8082/DOD		50	9463	07/23/11 22:03	LH	TAL NC
Total	Prep	3550A			1196121_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330 (Modified)		0.98	1196121	07/27/11 19:04	NS	TAL WSC
Total	Prep	8330			1196123_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330/8330A		0.99	1196123	07/28/11 05:25	NS	TAL WSC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3050B			8611	07/15/11 12:40	DE	TAL NC
Total/NA	Analysis	6020/DOD		10	13699	08/29/11 15:14	NJM	TAL NC
Total/NA	Analysis	6020/DOD		1	13778	08/25/11 23:43	NJM	TAL NC
Total/NA	Prep	7471A			8619	07/15/11 15:30	DE	TAL NC
Total/NA	Analysis	7471/DOD		1	8899	07/18/11 17:21	BD	TAL NC
Total/NA	Analysis	Moisture		1	8464	07/14/11 13:19	CN	TAL NC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3060A			8820	07/18/11 14:13	LG	TAL NC
Total/NA	Analysis	7196A		1	9165	07/20/11 16:33	JM	TAL NC
Total	Prep	EXTRACTION, SOLID/SOLVENT (Manual)			1201012_P	07/20/11 05:35	HJA	TAL WSC
Total	Analysis	WS-WC-0050		1	1201012	07/21/11 13:07	JR	TAL WSC
Total	Analysis	D 2216-90		1	1207150	07/27/11 11:30	KG	TAL WSC

Client Sample ID: LL1SB-644V-0102-SO

Lab Sample ID: 240-1728-27

Date Collected: 07/05/11 11:12

Matrix: Solid

Date Received: 07/06/11 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8123	07/12/11 14:55	TS	TAL NC
Total/NA	Analysis	8260B/DoD		1	8086	07/12/11 19:08	SM	TAL NC

Client Sample ID: LL1SB-644M-0103-SO

Lab Sample ID: 240-1728-28

Date Collected: 07/05/11 11:07

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 99.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8237	07/13/11 11:10	SM	TAL NC
Total/NA	Analysis	8270C/DoD		1	10479	08/01/11 16:41	MU	TAL NC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8260	07/13/11 12:29	BM	TAL NC
Total/NA	Analysis	8081/DOD		5	10912	08/04/11 22:07	CV	TAL NC
Total/NA	Prep	3540C			8270	07/13/11 13:31	BM	TAL NC
Total/NA	Analysis	8082/DOD		10	9463	07/23/11 22:17	LH	TAL NC
Total	Prep	3550A			1196121_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330 (Modified)		1	1196121	07/27/11 19:19	NS	TAL WSC
Total	Prep	8330			1196123_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330/8330A		1	1196123	07/28/11 06:05	NS	TAL WSC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3050B			8611	07/15/11 12:40	DE	TAL NC
Total/NA	Analysis	6020/DOD		5	13699	08/29/11 15:09	NJM	TAL NC
Total/NA	Analysis	6020/DOD		1	13778	08/25/11 23:38	NJM	TAL NC
Total/NA	Prep	7471A			8619	07/15/11 15:30	DE	TAL NC
Total/NA	Analysis	7471/DOD		1	8899	07/18/11 17:20	BD	TAL NC
Total/NA	Analysis	Moisture		1	8464	07/14/11 13:19	CN	TAL NC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3060A			8820	07/18/11 14:13	LG	TAL NC
Total/NA	Analysis	7196A		1	9165	07/20/11 16:35	JM	TAL NC
Total	Prep	EXTRACTION, SOLID/SOLVENT (Manual)			1201012_P	07/20/11 05:35	HJA	TAL WSC
Total	Analysis	WS-WC-0050		1	1201012	07/21/11 13:09	JR	TAL WSC
Total	Analysis	D 2216-90		1	1207150	07/27/11 11:30	KG	TAL WSC

Client Sample ID: LL1SB-644V-0103-SO

Lab Sample ID: 240-1728-29

Date Collected: 07/05/11 11:13

Matrix: Solid

Date Received: 07/06/11 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8123	07/12/11 14:55	TS	TAL NC
Total/NA	Analysis	8260B/DoD		1	8086	07/12/11 19:29	SM	TAL NC

Client Sample ID: LL1SB-645M-0101-SO

Lab Sample ID: 240-1728-30

Date Collected: 07/05/11 11:06

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 99.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8237	07/13/11 11:10	SM	TAL NC
Total/NA	Analysis	8270C/DoD		1	10479	08/01/11 17:00	MU	TAL NC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3540C			8260	07/13/11 12:29	BM	TAL NC
Total/NA	Analysis	8081/DOD		5	10329	07/31/11 04:40	CR	TAL NC
Total/NA	Prep	3540C			8270	07/13/11 13:31	BM	TAL NC
Total/NA	Analysis	8082/DOD		5	9463	07/23/11 22:32	LH	TAL NC
Total	Prep	3550A			1196121_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330 (Modified)		1	1196121	07/27/11 19:33	NS	TAL WSC
Total	Prep	8330			1196123_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330/8330A		0.96	1196123	07/28/11 06:45	NS	TAL WSC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3050B			8922	07/19/11 10:57	DE	TAL NC
Total/NA	Analysis	6020/DOD		1	13699	08/29/11 17:16	NJM	TAL NC
Total/NA	Analysis	6020/DOD		5	13699	08/29/11 17:32	NJM	TAL NC
Total/NA	Prep	7471A			8929	07/19/11 14:45	DE	TAL NC
Total/NA	Analysis	7471/DOD		1	9552	07/22/11 18:23	BD	TAL NC
Total/NA	Analysis	Moisture		1	8464	07/14/11 13:19	CN	TAL NC
Total/NA	Leach	Increm, Prep			7765	07/08/11 15:32	DJ	TAL NC
Total/NA	Prep	3060A			8820	07/18/11 14:13	LG	TAL NC
Total/NA	Analysis	7196A		1	9165	07/20/11 16:35	JM	TAL NC
Total	Prep	EXTRACTION, SOLID/SOLVENT (Manual)			1201012_P	07/20/11 05:35	HJA	TAL WSC
Total	Analysis	WS-WC-0050		1	1201012	07/21/11 13:11	JR	TAL WSC
Total	Analysis	D 2216-90		1	1207150	07/27/11 11:30	KG	TAL WSC

Client Sample ID: LL1SB-645V-0101-SO

Lab Sample ID: 240-1728-31

Date Collected: 07/05/11 11:10

Matrix: Solid

Date Received: 07/06/11 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8123	07/12/11 14:55	TS	TAL NC
Total/NA	Analysis	8260B/DoD		1	8086	07/12/11 19:50	SM	TAL NC

Client Sample ID: LL1SB-645M-0102-SO

Lab Sample ID: 240-1728-32

Date Collected: 07/05/11 11:07

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7766	07/08/11 15:36	DJ	TAL NC
Total/NA	Prep	3540C			8237	07/13/11 11:10	SM	TAL NC
Total/NA	Analysis	8270C/DoD		1	11269	08/08/11 17:19	MU	TAL NC
Total/NA	Leach	Increm, Prep			7766	07/08/11 15:36	DJ	TAL NC

Client Sample ID: LL1SB-645M-0102-SO

Lab Sample ID: 240-1728-32

Date Collected: 07/05/11 11:07

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			8260	07/13/11 12:29	BM	TAL NC
Total/NA	Analysis	8081/DOD		20	10912	08/04/11 22:38	CV	TAL NC
Total/NA	Prep	3540C			8270	07/13/11 13:31	BM	TAL NC
Total/NA	Analysis	8082/DOD		100	9463	07/23/11 22:47	LH	TAL NC
Total	Prep	3550A			1196121_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330 (Modified)		0.98	1196121	07/27/11 19:47	NS	TAL WSC
Total	Prep	8330			1196123_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330/8330A		1	1196123	07/28/11 07:25	NS	TAL WSC
Total/NA	Leach	Increm, Prep			7766	07/08/11 15:36	DJ	TAL NC
Total/NA	Prep	3050B			8611	07/15/11 12:40	DE	TAL NC
Total/NA	Analysis	6020/DOD		5	13699	08/29/11 14:41	NJM	TAL NC
Total/NA	Analysis	6020/DOD		1	13778	08/25/11 23:15	NJM	TAL NC
Total/NA	Prep	7471A			8619	07/15/11 15:30	DE	TAL NC
Total/NA	Analysis	7471/DOD		1	8899	07/18/11 17:10	BD	TAL NC
Total/NA	Analysis	Moisture		1	8464	07/14/11 13:19	CN	TAL NC
Total/NA	Leach	Increm, Prep			7766	07/08/11 15:36	DJ	TAL NC
Total/NA	Prep	3060A			8820	07/18/11 14:13	LG	TAL NC
Total/NA	Analysis	7196A		1	9165	07/20/11 16:38	JM	TAL NC
Total	Prep	EXTRACTION, SOLID/SOLVENT (Manual)			1201012_P	07/20/11 05:35	HJA	TAL WSC
Total	Analysis	WS-WC-0050		1	1201012	07/21/11 13:13	JR	TAL WSC
Total	Analysis	D 2216-90		1	1207150	07/27/11 11:31	KG	TAL WSC

Client Sample ID: LL1SB-645V-0102-SO

Lab Sample ID: 240-1728-33

Date Collected: 07/05/11 11:14

Matrix: Solid

Date Received: 07/06/11 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8123	07/12/11 14:55	TS	TAL NC
Total/NA	Analysis	8260B/DoD		1	8086	07/12/11 20:12	SM	TAL NC

Client Sample ID: LL1SB-645M-0103-SO

Lab Sample ID: 240-1728-34

Date Collected: 07/05/11 11:01

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 99.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7766	07/08/11 15:36	DJ	TAL NC
Total/NA	Prep	3540C			8237	07/13/11 11:10	SM	TAL NC
Total/NA	Analysis	8270C/DoD		1	10479	08/01/11 19:11	MU	TAL NC
Total/NA	Leach	Increm, Prep			7766	07/08/11 15:36	DJ	TAL NC
Total/NA	Prep	3540C			8260	07/13/11 12:29	BM	TAL NC
Total/NA	Analysis	8081/DOD		20	10329	07/31/11 05:39	CR	TAL NC
Total/NA	Prep	3540C			8270	07/13/11 13:31	BM	TAL NC
Total/NA	Analysis	8082/DOD		1	9463	07/23/11 23:31	LH	TAL NC

Client Sample ID: LL1SB-645M-0103-SO

Lab Sample ID: 240-1728-34

Date Collected: 07/05/11 11:01

Matrix: Solid

Date Received: 07/06/11 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	3550A			1196121_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330 (Modified)		0.97	1196121	07/27/11 20:02	NS	TAL WSC
Total	Prep	8330			1196123_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330/8330A		1.01	1196123	07/28/11 08:05	NS	TAL WSC
Total/NA	Leach	Increm, Prep			7766	07/08/11 15:36	DJ	TAL NC
Total/NA	Prep	3050B			8611	07/15/11 12:40	DE	TAL NC
Total/NA	Analysis	6020/DOD		5	13699	08/29/11 14:25	NJM	TAL NC
Total/NA	Analysis	6020/DOD		1	13778	08/25/11 22:58	NJM	TAL NC
Total/NA	Prep	7471A			8619	07/15/11 15:30	DE	TAL NC
Total/NA	Analysis	7471/DOD		1	8899	07/18/11 17:09	BD	TAL NC
Total/NA	Analysis	Moisture		1	8464	07/14/11 13:19	CN	TAL NC
Total/NA	Leach	Increm, Prep			7766	07/08/11 15:36	DJ	TAL NC
Total/NA	Prep	3060A			8820	07/18/11 14:13	LG	TAL NC
Total/NA	Analysis	7196A		1	9165	07/20/11 16:39	JM	TAL NC
Total	Prep	EXTRACTION, SOLID/SOLVENT (Manual)			1201012_P	07/20/11 05:35	HJA	TAL WSC
Total	Analysis	WS-WC-0050		1	1201012	07/21/11 13:15	JR	TAL WSC
Total	Analysis	D 2216-90		1	1207150	07/27/11 11:31	KG	TAL WSC

Client Sample ID: LL1SB-645V-0103-SO

Lab Sample ID: 240-1728-35

Date Collected: 07/05/11 11:17

Matrix: Solid

Date Received: 07/06/11 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8123	07/12/11 14:55	TS	TAL NC
Total/NA	Analysis	8260B/DoD		1	8086	07/12/11 20:33	SM	TAL NC

Client Sample ID: LL1SB-643M-0101-SO

Lab Sample ID: 240-1728-36

Date Collected: 07/05/11 14:45

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 99.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7766	07/08/11 15:36	DJ	TAL NC
Total/NA	Prep	3540C			8237	07/13/11 11:10	SM	TAL NC
Total/NA	Analysis	8270C/DoD		4	10479	08/01/11 14:48	MU	TAL NC
Total/NA	Analysis	Moisture		1	8464	07/14/11 13:19	CN	TAL NC

Client Sample ID: LL1SB-643M-0102-SO

Lab Sample ID: 240-1728-37

Date Collected: 07/05/11 14:45

Matrix: Solid

Date Received: 07/06/11 13:15

Percent Solids: 99.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7766	07/08/11 15:36	DJ	TAL NC
Total/NA	Prep	3540C			8237	07/13/11 11:10	SM	TAL NC

Client Sample ID: LL1SB-643M-0102-SO — Lab Sample ID: 240-1728-37

Date Collected: 07/05/11 14:45 — **Matrix: Solid**
Date Received: 07/06/11 13:15 — **Percent Solids: 99.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8270C/DoD		1	10479	08/01/11 14:10	MU	TAL NC
Total/NA	Analysis	Moisture		1	8464	07/14/11 13:19	CN	TAL NC

Client Sample ID: LL1SB-643M-0103-SO — Lab Sample ID: 240-1728-38

Date Collected: 07/05/11 14:47 — **Matrix: Solid**
Date Received: 07/06/11 13:15 — **Percent Solids: 99.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7766	07/08/11 15:36	DJ	TAL NC
Total/NA	Prep	3540C			8237	07/13/11 11:10	SM	TAL NC
Total/NA	Analysis	8270C/DoD		10	10479	08/01/11 14:29	MU	TAL NC
Total/NA	Analysis	Moisture		1	8464	07/14/11 13:19	CN	TAL NC

Client Sample ID: LL1SB-640M-0101-SO — Lab Sample ID: 240-1728-39

Date Collected: 07/05/11 16:15 — **Matrix: Solid**
Date Received: 07/06/11 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	8330			1196123_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330/8330A		0.99	1196123	07/28/11 08:46	NS	TAL WSC
Total/NA	Analysis	Moisture		1	8464	07/14/11 13:19	CN	TAL NC

Client Sample ID: LL1SB-640M-0102-SO — Lab Sample ID: 240-1728-40

Date Collected: 07/05/11 16:14 — **Matrix: Solid**
Date Received: 07/06/11 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	8330			1196123_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330/8330A		0.99	1196123	07/28/11 09:26	NS	TAL WSC
Total/NA	Analysis	Moisture		1	8464	07/14/11 13:19	CN	TAL NC

Client Sample ID: LL1SB-640M-0103-SO — Lab Sample ID: 240-1728-41

Date Collected: 07/05/11 16:12 — **Matrix: Solid**
Date Received: 07/06/11 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	8330			1196123_P	07/15/11 12:00	TQP	TAL WSC
Total	Analysis	8330/8330A		1	1196123	07/28/11 10:06	NS	TAL WSC
Total/NA	Analysis	Moisture		1	8464	07/14/11 13:19	CN	TAL NC

Client Sample ID: LL1SB-641M-0101-SO — Lab Sample ID: 240-1728-42

Date Collected: 07/06/11 09:30 — **Matrix: Solid**
Date Received: 07/06/11 13:15 — **Percent Solids: 99.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7766	07/08/11 15:36	DJ	TAL NC
Total/NA	Prep	3540C			8593	07/15/11 10:59	SM	TAL NC
Total/NA	Analysis	8270C/DoD		1	10257	07/29/11 19:30	MU	TAL NC
Total/NA	Analysis	Moisture		1	8464	07/14/11 13:19	CN	TAL NC

Client Sample ID: LL1SB-641M-0102-SO — Lab Sample ID: 240-1728-43

Date Collected: 07/06/11 09:37 — **Matrix: Solid**
Date Received: 07/06/11 13:15 — **Percent Solids: 99.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7766	07/08/11 15:36	DJ	TAL NC
Total/NA	Prep	3540C			8593	07/15/11 10:59	SM	TAL NC
Total/NA	Analysis	8270C/DoD		1	10257	07/29/11 17:56	MU	TAL NC
Total/NA	Analysis	Moisture		1	8464	07/14/11 13:19	CN	TAL NC

Client Sample ID: LL1SB-641M-0103-SO — Lab Sample ID: 240-1728-44

Date Collected: 07/06/11 09:40 — **Matrix: Solid**
Date Received: 07/06/11 13:15 — **Percent Solids: 99.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7766	07/08/11 15:36	DJ	TAL NC
Total/NA	Prep	3540C			8593	07/15/11 10:59	SM	TAL NC
Total/NA	Analysis	8270C/DoD		1	10257	07/29/11 18:15	MU	TAL NC
Total/NA	Analysis	Moisture		1	8464	07/14/11 13:19	CN	TAL NC

Client Sample ID: LL1SB-642M-0101-SO — Lab Sample ID: 240-1728-45

Date Collected: 07/06/11 10:40 — **Matrix: Solid**
Date Received: 07/06/11 13:15 — **Percent Solids: 98.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7766	07/08/11 15:36	DJ	TAL NC
Total/NA	Prep	3540C			8593	07/15/11 10:59	SM	TAL NC
Total/NA	Analysis	8270C/DoD		5	10257	07/29/11 19:12	MU	TAL NC
Total/NA	Analysis	Moisture		1	8464	07/14/11 13:19	CN	TAL NC

Client Sample ID: LL1SB-642M-0102-SO — Lab Sample ID: 240-1728-46

Date Collected: 07/06/11 10:40 — **Matrix: Solid**
Date Received: 07/06/11 13:15 — **Percent Solids: 99.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7766	07/08/11 15:36	DJ	TAL NC
Total/NA	Prep	3540C			8593	07/15/11 10:59	SM	TAL NC
Total/NA	Analysis	8270C/DoD		1	10257	07/29/11 18:34	MU	TAL NC
Total/NA	Analysis	Moisture		1	8464	07/14/11 13:19	CN	TAL NC

Lab Chronicle

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1728-1

Client Sample ID: LL1SB-642M-0103-SO

Lab Sample ID: 240-1728-47

Date Collected: 07/06/11 10:40
Matrix: Solid
Date Received: 07/06/11 13:15
Percent Solids: 99.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			7766	07/08/11 15:36	DJ	TAL NC
Total/NA	Prep	3540C			8593	07/15/11 10:59	SM	TAL NC
Total/NA	Analysis	8270C/DoD		1	10257	07/29/11 18:53	MU	TAL NC
Total/NA	Analysis	Moisture		1	8464	07/14/11 13:19	CN	TAL NC

Client Sample ID: EQUIP RINSATE 2-1-11

Lab Sample ID: 240-1728-48

Date Collected: 07/06/11 09:00
Matrix: Water
Date Received: 07/06/11 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			7492	07/07/11 10:27	CC	TAL NC
Total/NA	Analysis	8270C/DoD		1	11019	08/05/11 16:26	MU	TAL NC
Total/NA	Prep	3520C			7787	07/09/11 07:16	LH	TAL NC
Total/NA	Analysis	8081/DOD		1	10137	07/29/11 04:39	CV	TAL NC
Total/NA	Prep	3520C			7786	07/09/11 07:10	LH	TAL NC
Total/NA	Analysis	8082/DOD		1	8509	07/15/11 04:38	LH	TAL NC
Total	Prep	3535			1193068_P	07/12/11 09:00	HJA	TAL WSC
Total	Analysis	8330/8330A		0.99	1193068	07/23/11 13:41	NS	TAL WSC
Dissolved	Prep	FILTRATION (DISS)			1201051_P	07/20/11 08:50	HJA	TAL WSC
Dissolved	Analysis	8330 (Modified)		1	1201051	07/27/11 13:19	NS	TAL WSC
Total/NA	Prep	7470A			9905	07/27/11 14:30	LM	TAL NC
Total/NA	Analysis	7470A/DOD		1	10288	07/29/11 10:54	BD	TAL NC
Total Recoverable	Prep	3005A			10075	07/28/11 11:13	LM	TAL NC
Total Recoverable	Analysis	6020/DOD		1	13699	08/29/11 12:14	NJM	TAL NC
Total/NA	Analysis	7196A		1	7391	07/06/11 17:03	JM	TAL NC
Total	Prep	EXTRACTION, SOLID PHASE			1201023_P	07/20/11 08:00	TQP	TAL WSC
Total	Analysis	WS-WC-0050		1	1201023	07/21/11 13:33	JR	TAL WSC

Laboratory References:
TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396
TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: Prudent Technologies, Inc
Project/Site: RVAAP

TestAmerica Job ID: 240-1728-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica North Canton	ACLASS	DoD ELAP		ADE-1437
TestAmerica North Canton	California	NELAC	9	01144CA
TestAmerica North Canton	Connecticut	State Program	1	PH-0590
TestAmerica North Canton	Florida	NELAC	4	E87225
TestAmerica North Canton	Georgia	Georgia EPD	4	N/A
TestAmerica North Canton	Illinois	NELAC	5	200004
TestAmerica North Canton	Kansas	NELAC	7	E-10336
TestAmerica North Canton	Kentucky	State Program	4	58
TestAmerica North Canton	Minnesota	NELAC	5	039-999-348
TestAmerica North Canton	Nevada	State Program	9	OH-000482008A
TestAmerica North Canton	New Jersey	NELAC	2	OH001
TestAmerica North Canton	New York	NELAC	2	10975
TestAmerica North Canton	Ohio	OVAP	5	CL0024
TestAmerica North Canton	Pennsylvania	NELAC	3	68-00340
TestAmerica North Canton	USDA	USDA		P330-11-00328
TestAmerica North Canton	Virginia	NELAC Secondary AB	3	460175
TestAmerica North Canton	West Virginia	West Virginia DEP	3	210
TestAmerica North Canton	Wisconsin	State Program	5	999518190
TestAmerica West Sacramento		USEPA UCMR		CA00044
TestAmerica West Sacramento	A2LA	DoD ELAP		2928-01
TestAmerica West Sacramento	Alaska	Alaska UST	10	UST-055
TestAmerica West Sacramento	Arizona	State Program	9	AZ0708
TestAmerica West Sacramento	Arkansas	State Program	6	88-0691
TestAmerica West Sacramento	California	NELAC	9	1119CA
TestAmerica West Sacramento	Colorado	State Program	8	N/A
TestAmerica West Sacramento	Connecticut	State Program	1	PH-0691
TestAmerica West Sacramento	Florida	NELAC	4	E87570
TestAmerica West Sacramento	Georgia	State Program	4	960
TestAmerica West Sacramento	Guam	State Program	9	N/A
TestAmerica West Sacramento	Hawaii	State Program	9	N/A
TestAmerica West Sacramento	Illinois	NELAC	5	200060
TestAmerica West Sacramento	Kansas	NELAC	7	E-10375
TestAmerica West Sacramento	Louisiana	NELAC	6	30612
TestAmerica West Sacramento	Michigan	State Program	5	9947
TestAmerica West Sacramento	Nevada	State Program	9	CA44
TestAmerica West Sacramento	New Jersey	NELAC	2	CA005
TestAmerica West Sacramento	New Mexico	State Program	6	N/A
TestAmerica West Sacramento	New York	NELAC	2	11666
TestAmerica West Sacramento	Oregon	NELAC	10	CA200005
TestAmerica West Sacramento	Pennsylvania	NELAC	3	68-01272
TestAmerica West Sacramento	South Carolina	State Program	4	87014
TestAmerica West Sacramento	Texas	NELAC	6	T104704399-08-TX
TestAmerica West Sacramento	US Fish & Wildlife	US Fish & Wildlife		LE148388-0
TestAmerica West Sacramento	USDA	USDA		P330-09-00055
TestAmerica West Sacramento	Utah	NELAC	8	QUAN1
TestAmerica West Sacramento	Virginia	State Program	3	178
TestAmerica West Sacramento	Washington	State Program	10	C581
TestAmerica West Sacramento	West Virginia	West Virginia DEP	3	334
TestAmerica West Sacramento	West Virginia	West Virginia DHHR (DW)	3	9930C
TestAmerica West Sacramento	Wisconsin	State Program	5	998204680
TestAmerica West Sacramento	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: NORTH CANTON
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other RVAAP

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: PRUDENT TECHNOLOGIES	Client Project Manager: JOHN JENT	Site Contact: JOHN JENT	Lab Contact: MARK LOEB	COC No: 014338
Address: 4242 MEDICAL DR SUITE 5250	Telephone: 502 439-8005	Telephone: 502 439-8005	Telephone: 330-497-9396	1 of 6 COCs
City/State/Zip: SAN ANTONIO, TX 78229	Email: jjent@prudentweb.com	Analysis Turnaround Time (in BUS days)		For lab use only
Phone: 210 822-9588		TAT if different from below ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: LLS 1-4,12	Method of Shipment/Carrier:			Job/SDG No:
Project Number: W912QR-10-P-0037	Shipping/Tracking No:			
PO#				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other: MeOH	Filtered Sample (Y/N)	Composite C / Grab G	Analyses: 6010B TAL	7471A Hg	7196 Cr+6	8330B NON Poly Expl	PROPELLANTS	8270C SVOCs	8081 PESTICIDES	8082 PCBs	8270C-LL (PAH)	8260B VOC	Sample Specific Notes / Special Instructions:
LL25B-512M-0101-SO	7-1-2011	~~2:44~~ 3:50				X										C									X		
LL25B-512M-0102-SO	7-1-2011	~~2:44~~ 3:50				X										C									X		
LL25B-512M-0103-SO	7-1-2011	~~2:45~~ 3:50				X										C									X		
LL35D-416M-0001-SD	7-2-2011	0850			X											C	X	X	X	X	X	X	X	X			
LL35D-416V-0001-SD	7-2-2011	0850			X									X		G										X	
LL35D-417M-0001-SD	7-2-2011	0850			X											C	X	X	X	X	X	X	X	X			
LL35D-417V-0001-SD	7-2-2011	0850			X									X		G										X	
LL355-419M-0001-SO	7-2-2011	1230				X										C									X		
LL355-419M-0002-SO (MS/MSD)	7-2-2011	1230				X										C									X		
LL355-420M-0001-SO	7-2-2011	1230				X										C									X		

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	PRUDENT	7/6/11 1315			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TAL	7-6-11 1315

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TAL 0018-1 (04/10)

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

TestAmerica Laboratory location: NORTH CANTON

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other RVAAP

Client Contact				
Company Name: PRUDENT TECHNOLOGIES	Client Project Manager: John Dent	Site Contact: SAME	Lab Contact: MARK LOEB	COC No: 014340
Address: 4242 MEDICAL DR. SUITE 525	Telephone: 502 439-8005	Telephone:	Telephone: 330-497-9396	2 of 6 COCs
City/State/Zip: SAN ANTONIO, TX 78229	Email: jplente prudentlab.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: 210-822-9588		TAT if different from below ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: LLS 1-4 12	Method of Shipment/Carrier:			Job/SDG No:
Project Number: W912QR-10-P-0037	Shipping/Tracking No:			
PO#				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other: MeOH	Filtered Sample (Y/N)	Composite C / Grab G	6010B TAL	7471A HG	7196 CR+6	8330B NON EXPL	PROPELLANTS	8270C SVOCs	8081 PESTICIDES	8082 PCBs	8270C-LL (PAHs)	8260B VOC	Sample Specific Notes / Special Instructions:
LL35S-421M-0001-SO	7-2-2011	3:00				X										C									X		
LL35B-422M-0001-SO	7-2-2011	3:00				X										C									X		
LL25S-519M-0001-SO	7-2-2011	4:15				X										C								X	X		
LL25S-516M-0001-SO	7-3-2011	9:45				X										C	X	X	X	X	X	X	X	X			
LL25S-516V-0001-SO	7-3-2011	9:50				X								X		G										X	
LL25S-516M-0002-SO MS MSD	7-3-2011	9:45				X										C	X	X	X	X	X	X	X	X			
LL25S-516V-0002-SO MS MSD	7-3-2011	9:50				X								X		G										X	
LL25S-517M-0001-SO	7-3-2011	~~11:15~~ 9:45				X										C	X	X	X	X	X	X	X	X			
LL25S-517V-0001-SO	7-3-2011	~~11:20~~ 9:50				X								X		G										X	
LL25S-300M-0001-SO	7-3-2011	11:15				X										C	X	X	X	X	X	X	X	X			

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	PRUDENT	7/06/2011 1315			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL	Date/Time: 7-6-11 1315

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TAL 0018- 1 (04/10)

09/26/2011

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: NORTH CANTON
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other RVAAP

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: PRUDENT TECHNOLOGIES	Client Project Manager: JOHN JENT	Site Contact: ~~SAME~~	Lab Contact: MARK LOEB	COC No: 014339
Address: 4242 MEDICAL DR SUITE 5250	Telephone: 502 439-8005	Telephone: SAME	Telephone: 330-497-9396	3 of 6 COCs
City/State/Zip: SAN ANTONIO, TX 78229	Email: jjent@prudentlab.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: 210-822-9588		TAT if different from below ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: LLS 1-4, 12	Method of Shipment/Carrier:			Job/SDG No
Project Number: W912QR-10-P-0037	Shipping/Tracking No:			
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other: MeOH	Filtered Sample (Y/N)	Composite=C / Grab=G	6010B TAL	7471A HG	7196 Cr+6	8330B NEW EXPL	PROPELLANTS	8270C SVOCs	8081 PESTICIDES	8082 PCBs	8270C-LL (PAHs)	8260B VOC	Sample Specific Notes / Special Instructions:
EB L1255-300V-0001-50	7-3-2011	11:20				X								X		G										X	
L1255-301M-~~0001~~ 0001-50	7-3-2011	1115				X										C	X	X	X	X	X	X	X	X			
L1255-301V-0001-50	7-3-2011	11:20				X								X		G										X	
LL1SB-644M-0101-50	7-5-2011	1100				X										C	X	X	X	X	X	X	X	X			
LL1SB-644V-0101-50	7-5-2011	1109				X								X		~~G~~ C										X	
LL1SB-644M-0102-50	7-5-2011	1057				X										C	X	X	X	X	X	X	X	X			
LL1SB-644V-0102-50	7-5-2011	1112				X								X		C										X	
LL1SB-644M-0103-50	7-5-2011	1107				X										C	X	X	X	X	X	X	X	X			
LL1SB-644V-0103-50	7-5-2011	1113				X								X		C										X	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	PRUDENT	7/6/11 1315			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL	Date/Time: 7-6-11 1315

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TAL 0018-1 (04/10)

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: NORTH CANTON

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other RUAAP

TestAmerica Laboratories, Inc.

COC No: 014341

4 of 6 COCs

Client Contact			
Company Name: PRUDENT TECHNOLOGIES	Client Project Manager: John Jent	Site Contact: SAME	Lab Contact:
Address: 4242 MEDICAL DR SUITE 5250	Telephone: 210-822-9588	Telephone:	Telephone:
City/State/Zip: SAN ANTONIO, TX 78229	Email: jjent@prudentweb.com		
Phone: 210-822-9588			
Project Name: LLS 1-4,12	Method of Shipment/Carrier:		
Project Number: W912QR-10-P-0037	Shipping/Tracking No:		
PO#			

Analysis Turnaround Time (in BUS days)

TAT if different from below ____

☐ 3 weeks
☒ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

For lab use only

☐ Walk-in client
☐ Lab pickup
☐ Lab sampling

Job/SDG No.:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other: MeOH	Filtered Sample (Y/N)	Composite=C/ Grab=G	Analyses: 6010B TAL	7471A HG	7196 CR+6	8330B NQ PLUS EXPL	PROPELLANTS	8270C SVOCs	8081 PESTICIDES	8082 PCBs	8270C-LL (PAHs)	8260B VOC	Sample Specific Notes / Special Instructions:
LLI SB-645M-0101-SO	7-5-2011	1106				X										C	X	X	X	X	X	X	X	X			
LLI SB-645V-0101-SO	7-5-2011	1110				X								X		C	~~X~~	~~X~~								X	
LLI SB-645M-0102-SO	7-5-2011	1107				X										C	X	X	X	X	X	X	X	X			
LLI SB-645V-0102-SO	7-5-2011	1114				X								X		C										X	
LLI SB-645M-0103-SO	7-5-2011	1101				X										C	X	X	X	X	X	X	X	X			
LLI SB-645V-0103-SO	7-5-2011	1117				X								X		C										X	
LLI SB-643M-0101-SO	7-5-2011	2:45				X										C									X		
LLI SB-643M-0102-SO	7-5-2011	2:45				X										C									X		
LLI SB-643M-0103-SO	7-5-2011	2:47				X										C									X		

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company: PRUDENT	Date/Time: 7/6/11 1315	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL	Date/Time: 7-6-11 1315

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TAL 0018-1 (04/10)

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: NORTH CANTON

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other RUAA

TestAmerica Laboratories, Inc.

Client Contact	Client Project Manager:	Site Contact:	Lab Contact:	COC No:
Company Name: PRUDENT TECHNOLOGY	John Jent	SAME		014337
Address: 4242 MEDICAL DR. SUITE 5250	Telephone: 512 439-8005	Telephone:	Telephone:	5 of 6 COCs
City/State/Zip: SAN ANTONIO, TX 78229	Email: jjent@prudentweb.com			
Phone: 210-822-9588				
Project Name: LL 1-4, 12	Method of Shipment/Carrier:			
Project Number: W912QR-10-P-0037	Shipping/Tracking No:			
PO#				

Analysis Turnaround Time (in BUS days)

TAT if different from below ____

☐ 3 weeks
☒ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

Analyses

For lab use only
Walk-in client ☐
Lab pickup ☐
Lab sampling ☐
Job/SDG No.:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	6010B TAL	7471A HG	7196 CR	8330B NOM EXPL PULV	PROPELLANTS	8270C SVOCs	8081 PESTICIDES	8082 PCBs	8270C-LL (PAHs)	8260B VOC	Sample Specific Notes / Special Instructions:
LL1SB-640M-0101-SO	7-5-2011	4:15				X										C				X							
LL1SB-640M-0102-SO	7-5-2011	4:14				X										C				X							
LL1SB-640M-0103-SO	7-5-2011	4:12				X										C				X							
LL1SB-641M-0101-SO	7-6	9:30				X										C									X		
LL1SB-641M-0102-SO	7-6	9:37				X										C									X		
LL1SB-641M-0103-SO	7-6	9:40				X										C									X		
LL1SB-642M-0101-SO	7-6	10:40				X										C									X		
LL1SB-642M-0102-SO	7-6	10:40				X										C									X		
LL1SB-642M-0103-SO	7-6	10:40				X										C									X		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	PRUDENT	7/6/11 1315			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TAL	7/6/11 1315

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TAL 0018- 1 (04/10)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: NORTH CANTON
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other RUAA

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: PRUDENT TECHNOLOGIES	Client Project Manager: John Jent	Site Contact: SAME	Lab Contact: MARK LOEB	COC No: 014342
Address: 4242 MEDICAL DR. SUITE 5250	Telephone: 502 439-8005	Telephone:	Telephone: 330-497-9396	6 of 6 COCs
City/State/Zip: SAN ANTONIO, TX 78229	Email: JJent@prudentlab.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: 210-822-9588		TAT if different from below ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: LLS 1-4, 12	Method of Shipment/Carrier:			
Project Number: W912QR-10-P-0037	Shipping/Tracking No:			Job/SDG No:
PO#				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	6010B TAL	7470A HG	7196 CR6	8330B EXP	PROPELLANTS	8270C SVOC	8081 PESTICIDES	8082 PCBS			Sample Specific Notes / Special Instructions:
EQUIPMENT RINSATE 2-1	7-6-2011	0900		X												G						X					
" " 2-2	↑	0900		↑												G						X					ANALYZE ONLY IF 2-1 NOT DONE
" " 2-3		0900														G							X				
" " 2-4		0900														G							X				ANALYZE ONLY IF 2-3 NOT DONE
" " 2-5		0900														G								X			
" " 2-6		0900														G								X			ANALYZE ONLY IF 2-5 NOT DONE
" " 2-7		0900														G				X							
" " 2-8		0900														G				X							ANALYZE ONLY IF 2-7 NOT DONE
" " 2-9	↓	0900		↓												G					X						
" " 2-10		0900							X							G	X	X									
" " 2-11	7-6-2011	0900		X												G			X								

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	PRUDENT	7/6/11 1315			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TAL	Date/Time: 7-6-11 1315

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TAL 0018- 1 (04/10)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 1728
North Canton Facility

Client PENDENTECH Project LL51-4n12 By: (Signature)
Cooler Received on 6 JUL 2011 Opened on 6 JUL 2011
FedEx ☐ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☒ TestAmerica Courier ☐ Other ____
TestAmerica Cooler # BAC Multiple Coolers ☒ Foam Box ☐ Client Cooler ☐ Other ____

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 5 Quantity Unsalvageable ____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☒ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? ____
2. Shippers' packing slip attached to the cooler(s)? Yes ☐ No ☒
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other PAPER
6. Cooler temperature upon receipt BAC °C See back of form for multiple coolers/temps ☒
   METHOD: IR ☒ Other ☐ ____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☒ No ☐ NA ☐
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM ____ Date ____ by ____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning ____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.
Sample(s) ____ were received in a broken container.
Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preserved added to sample(s)? ____

Client ID	pH	Date	Initials
2-10 EQUIP RINSE	12	6 JUL 11	MW

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant
Client	4.2	IR	Ice
A-235	2.8		
Trip #	2.6		
Trip #	1.6		
Trip #	3.0		

Discrepancies Cont'd:

Login Sample Receipt Checklist

Client: Prudent Technologies, Inc

Job Number: 240-1728-1

Login Number: 1728

List Source: TestAmerica North Canton

List Number: 1

Creator: Livengood, Chris

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2, 2.8, 0.6, 1.6, 3.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	True	

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ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Sample Condition Report
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

For analyses that require NELAP accreditation, all analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted in this document.

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ANALYTICAL REPORT

USACE - LOUISVILLE
TOM CHANDA
600 DR MLKJ PLACE
PO BOX 59 ROOM 921
LOUISVILLE, KY 40201-0059

Project Name: CC-78
Contract #: 2263
Project #: W912QR-10-D-0024
Folder #: 88174
Purchase Order #:

Arrival Temperature: See COC
Report Date: 12/5/2011
Date Received: 11/11/2011
Reprint Date: 12/5/2011

CT LAB#: 101855 Sample Description: C78SB-023M-0101-SO Sampled: 11/9/2011 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	99.1	%				1			11/17/2011 14:00	BMS	EPA 8000C
Nitrocellulose	<13	mg/kg	13	44	100	1		11/21/2011 08:00	11/29/2011 04:12	RLD	EPA 9056M
Metals Results											
Aluminum	12200	mg/kg	0.081	0.28	0.48	2		11/21/2011 08:00	11/22/2011 10:47	NAH	EPA 6010C ^
Antimony	0.74	mg/kg	0.13	0.43	0.81	1	J	11/21/2011 08:00	11/23/2011 10:24	NAH	EPA 6010C ^
Arsenic	14.6	mg/kg	0.26	0.91	1.6	2		11/21/2011 08:00	11/22/2011 10:47	NAH	EPA 6010C ^
Barium	101	mg/kg	0.018	0.057	0.10	2		11/21/2011 08:00	11/22/2011 10:47	NAH	EPA 6010C ^
Beryllium	0.75	mg/kg	0.0081	0.024	0.081	2		11/21/2011 08:00	11/22/2011 10:47	NAH	EPA 6010C ^
Cadmium	0.13	mg/kg	0.012	0.042	0.081	2		11/21/2011 08:00	11/22/2011 10:47	NAH	EPA 6010C ^
Calcium	16200	mg/kg	0.48	1.6	2.8	2		11/21/2011 08:00	11/22/2011 10:47	NAH	EPA 6010C ^
Chromium	351	mg/kg	0.046	0.16	0.28	2		11/21/2011 08:00	11/22/2011 10:47	NAH	EPA 6010C ^
Cobalt	9.9	mg/kg	0.081	0.24	0.48	2		11/21/2011 08:00	11/22/2011 10:47	NAH	EPA 6010C ^
Copper	22.8	mg/kg	0.14	0.44	0.81	2		11/21/2011 08:00	11/22/2011 10:47	NAH	EPA 6010C ^
Iron	32100	mg/kg	0.61	2.0	3.6	2		11/21/2011 08:00	11/22/2011 10:47	NAH	EPA 6010C ^
Lead	22.3	mg/kg	0.081	0.28	0.50	2		11/21/2011 08:00	11/22/2011 10:47	NAH	EPA 6010C ^
Magnesium	3320	mg/kg	0.28	0.97	1.6	2		11/21/2011 08:00	11/22/2011 10:47	NAH	EPA 6010C ^
Manganese	853	mg/kg	0.050	0.17	0.30	2		11/21/2011 08:00	11/22/2011 10:47	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101855 Sample Description: C78SB-023M-0101-SO Sampled: 11/9/2011 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Nickel	20.0	mg/kg	0.042	0.14	0.24	2		11/21/2011 08:00	11/22/2011 10:47	NAH	EPA 6010C ^
Selenium	0.97	mg/kg	0.12	0.42	0.81	2		11/21/2011 08:00	11/22/2011 10:47	NAH	EPA 6010C ^
Silver	<0.017	mg/kg	0.017	0.057	0.10	1		11/21/2011 08:00	11/23/2011 10:24	NAH	EPA 6010C ^
Thallium	0.75	mg/kg	0.081	0.26	0.48	1		11/21/2011 08:00	11/23/2011 10:24	NAH	EPA 6010C ^
Vanadium	19.7	mg/kg	0.024	0.079	0.16	2		11/21/2011 08:00	11/22/2011 10:47	NAH	EPA 6010C ^
Zinc	136	mg/kg	0.10	0.32	0.61	2		11/21/2011 08:00	11/22/2011 10:47	NAH	EPA 6010C ^
Potassium	1490	mg/kg	11	36	67	1		11/21/2011 08:00	11/22/2011 09:00	NAH	EPA 6010C ^
Sodium	<4.0	mg/kg	4.0	13	24	1		11/21/2011 08:00	11/22/2011 09:00	NAH	EPA 6010C ^
Mercury	0.019	mg/kg	0.0021	0.0071	0.0084	1		11/21/2011 12:00	11/22/2011 10:32	GCE	EPA 7471A ^
Organic Results											
Aroclor-1016	<10	ug/kg	10	35	100	1		11/17/2011 13:00	11/21/2011 14:19	JJY	EPA 8082A ^
Aroclor-1221	<20	ug/kg	20	66	100	1		11/17/2011 13:00	11/21/2011 14:19	JJY	EPA 8082A ^
Aroclor-1232	<27	ug/kg	27	91	100	1		11/17/2011 13:00	11/21/2011 14:19	JJY	EPA 8082A ^
Aroclor-1242	<29	ug/kg	29	97	100	1		11/17/2011 13:00	11/21/2011 14:19	JJY	EPA 8082A ^
Aroclor-1248	<29	ug/kg	29	98	100	1		11/17/2011 13:00	11/21/2011 14:19	JJY	EPA 8082A ^
Aroclor-1254	<23	ug/kg	23	76	100	1		11/17/2011 13:00	11/21/2011 14:19	JJY	EPA 8082A ^
Aroclor-1260	<12	ug/kg	12	38	100	1		11/17/2011 13:00	11/21/2011 14:19	JJY	EPA 8082A ^
Aroclor-1262	<21	ug/kg	21	71	100	1		11/17/2011 13:00	11/21/2011 14:19	JJY	EPA 8082A ^
Aroclor-1268	<28	ug/kg	28	93	100	1		11/17/2011 13:00	11/21/2011 14:19	JJY	EPA 8082A ^
Surr: DCBP	66	% Recovery	60	125	60-125	1		11/17/2011 13:00	11/21/2011 14:19	JJY	EPA 8082A
4,4'-DDD	3.0	ug/kg	0.30	1.2	2.4	1	P	11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B ^
4,4'-DDE	2.3	ug/kg	0.30	1.1	2.4	1	J	11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B ^
4,4'-DDT	12	ug/kg	0.50	1.5	2.4	1		11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B ^
Aldrin	<0.50	ug/kg	0.50	1.7	2.4	1		11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B ^
alpha-BHC	<0.60	ug/kg	0.60	1.9	2.4	1		11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B ^
alpha-Chlordane	<0.30	ug/kg	0.30	1.1	2.4	1		11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B ^
beta-BHC	40	ug/kg	0.60	2.0	2.4	1	P	11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B ^
Chlordane (Technical)	<4.0	ug/kg	4.0	30	60	1		11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101855 Sample Description: C78SB-023M-0101-SO Sampled: 11/9/2011 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
delta-BHC	0.40	ug/kg	0.30	1.1	2.4	1	J P	11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B ^
Dieldrin	<0.30	ug/kg	0.30	1.2	2.4	1		11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B ^
Endosulfan I	<0.70	ug/kg	0.70	2.2	2.4	1		11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B ^
Endosulfan II	0.30	ug/kg	0.30	1.2	2.4	1	J P	11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B ^
Endosulfan sulfate	<0.91	ug/kg	0.91	3.1	4.0	1		11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B ^
Endrin	<0.40	ug/kg	0.40	1.4	2.4	1		11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B ^
Endrin aldehyde	3.8	ug/kg	1.1	3.6	4.0	1	J	11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B ^
Endrin ketone	3.6	ug/kg	0.80	2.8	4.0	1	J P	11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B ^
gamma-Chlordane	<0.30	ug/kg	0.30	1.1	2.4	1		11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B ^
Heptachlor	3.2	ug/kg	0.40	1.2	2.4	1	P	11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B ^
Heptachlor epoxide	<0.50	ug/kg	0.50	1.7	2.4	1		11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B ^
Lindane	<0.50	ug/kg	0.50	1.6	2.4	1		11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B ^
Methoxychlor	9.1	ug/kg	0.70	2.3	2.4	1	P	11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B ^
Toxaphene	<5.0	ug/kg	5.0	30	60	1		11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B ^
SURR:2,4,5,6-CL4-m-xylene	73	% Recovery	70	125	70-125	1		11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B
SURR:Decachlorobiphenyl	94	% Recovery	55	130	55-130	1		11/17/2011 13:00	11/30/2011 17:57	JJY	EPA 8081B
Nitroguanidine	<0.060	mg/kg	0.060	0.21	0.25	1		11/22/2011 09:45	11/23/2011 10:44	red	EPA 8330
1,2-Dinitrobenzene	77	% Recovery	50	150	50-150	1		11/22/2011 09:45	11/23/2011 10:44	red	EPA 8330
1,3,5-Trinitrobenzene	<0.13	mg/kg	0.13	0.43	0.50	1		11/17/2011 14:00	11/22/2011 14:45	red	EPA 8330B
1,3-Dinitrobenzene	<0.080	mg/kg	0.080	0.26	0.40	1		11/17/2011 14:00	11/22/2011 14:45	red	EPA 8330B
2,4,6-Trinitrotoluene	<0.090	mg/kg	0.090	0.31	0.40	1		11/17/2011 14:00	11/22/2011 14:45	red	EPA 8330B
2,4-Dinitrotoluene	<0.080	mg/kg	0.080	0.25	0.50	1		11/17/2011 14:00	11/22/2011 14:45	red	EPA 8330B
2,6-Dinitrotoluene	<0.070	mg/kg	0.070	0.24	0.50	1		11/17/2011 14:00	11/22/2011 14:45	red	EPA 8330B
2-Amino-4,6-dinitrotoluene	<0.090	mg/kg	0.090	0.29	0.40	1		11/17/2011 14:00	11/22/2011 14:45	red	EPA 8330B
2-Nitrotoluene	<0.090	mg/kg	0.090	0.28	0.50	1		11/17/2011 14:00	11/22/2011 14:45	red	EPA 8330B
3-Nitrotoluene	<0.11	mg/kg	0.11	0.36	0.40	1		11/17/2011 14:00	11/22/2011 14:45	red	EPA 8330B
4-Amino-2,6-dinitrotoluene	<0.080	mg/kg	0.080	0.25	0.40	1		11/17/2011 14:00	11/22/2011 14:45	red	EPA 8330B
4-Nitrotoluene	<0.10	mg/kg	0.10	0.34	0.40	1		11/17/2011 14:00	11/22/2011 14:45	red	EPA 8330B

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101855 Sample Description: C78SB-023M-0101-SO Sampled: 11/9/2011 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
HMX	<0.12	mg/kg	0.12	0.39	0.40	1		11/17/2011 14:00	11/22/2011 14:45	red	EPA 8330B
Nitrobenzene	<0.10	mg/kg	0.10	0.34	0.40	1		11/17/2011 14:00	11/22/2011 14:45	red	EPA 8330B
Nitroglycerin	<0.50	mg/kg	0.50	1.8	2.0	1		11/17/2011 14:00	11/22/2011 14:45	red	EPA 8330B
PETN	<0.60	mg/kg	0.60	1.9	2.0	1		11/17/2011 14:00	11/22/2011 14:45	red	EPA 8330B
RDX	<0.14	mg/kg	0.14	0.46	0.50	1		11/17/2011 14:00	11/22/2011 14:45	red	EPA 8330B
Tetryl	<0.090	mg/kg	0.090	0.30	0.40	1		11/17/2011 14:00	11/22/2011 14:45	red	EPA 8330B
1,2-Dinitrobenzene	95	% Recovery	74	128	74-128	1		11/17/2011 14:00	11/22/2011 14:45	red	EPA 8330B
1,2,4-Trichlorobenzene	<21	ug/kg	21	70	120	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
1,2-Dichlorobenzene	<24	ug/kg	24	80	120	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
1,3-Dichlorobenzene	<20	ug/kg	20	68	120	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
1,4-Dichlorobenzene	<19	ug/kg	19	64	120	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
2,4,5-Trichlorophenol	<130	ug/kg	130	450	610	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
2,4,6-Trichlorophenol	<130	ug/kg	130	450	610	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
2,4-Dichlorophenol	<120	ug/kg	120	420	610	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
2,4-Dimethylphenol	<100	ug/kg	100	330	610	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
2,4-Dinitrophenol	<270	ug/kg	270	910	2000	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
2,4-Dinitrotoluene	<24	ug/kg	24	80	120	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
2,6-Dinitrotoluene	<24	ug/kg	24	82	120	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
2-Chloronaphthalene	<23	ug/kg	23	77	120	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
2-Chlorophenol	<340	ug/kg	340	1100	2000	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
2-Methylnaphthalene	230	ug/kg	0.22	0.74	3.0	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
2-Methylphenol	<430	ug/kg	430	1400	2000	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
2-Nitroaniline	<23	ug/kg	23	79	120	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
2-Nitrophenol	<280	ug/kg	280	950	1000	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
3 & 4-Methylphenol	<660	ug/kg	660	2200	3700	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
3,3'-Dichlorobenzidine	<150	ug/kg	150	500	510	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
3-Nitroaniline	<22	ug/kg	22	73	120	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
4,6-Dinitro-2-methylphenol	<270	ug/kg	270	910	1000	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
4-Bromophenyl-phenyl ether	<25	ug/kg	25	84	120	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101855 Sample Description: C78SB-023M-0101-SO Sampled: 11/9/2011 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Chloro-3-methylphenol	<390	ug/kg	390	1300	2000	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
4-Chloroaniline	<40	ug/kg	40	130	200	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
4-Chlorophenyl-phenyl ether	<26	ug/kg	26	88	200	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
4-Nitroaniline	<30	ug/kg	30	100	120	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
4-Nitrophenol	<410	ug/kg	410	1300	2000	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Acenaphthene	120	ug/kg	0.33	1.1	3.0	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Acenaphthylene	350	ug/kg	0.24	0.83	3.0	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Anthracene	740	ug/kg	0.31	1.0	3.0	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Benzo(a)anthracene	2500	ug/kg	0.32	1.1	3.0	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Benzo(a)pyrene	1400	ug/kg	0.28	0.93	5.1	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Benzo(b)fluoranthene	2300	ug/kg	0.41	1.3	3.0	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Benzo(g,h,i)perylene	710	ug/kg	0.40	1.3	3.0	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Benzo(k)fluoranthene	840	ug/kg	0.38	1.2	3.0	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Benzoic acid	<290	ug/kg	290	990	3000	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Benzyl alcohol	<84	ug/kg	84	280	410	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Bis(2-chloroethoxy)methane	<23	ug/kg	23	77	120	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Bis(2-chloroethyl)ether	<25	ug/kg	25	85	120	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Bis(2-chloroisopropyl)ether	<30	ug/kg	30	100	120	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Butylbenzylphthalate	<74	ug/kg	74	240	410	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Carbazole	390	ug/kg	28	95	120	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Chrysene	2000	ug/kg	0.35	1.2	3.0	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Di-n-butylphthalate	<80	ug/kg	80	260	410	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Di-n-octylphthalate	<60	ug/kg	60	200	200	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Dibenzo(a,h)anthracene	240	ug/kg	0.35	1.2	3.0	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Dibenzofuran	340	ug/kg	24	82	120	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Diethylphthalate	<65	ug/kg	65	220	410	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Dimethylphthalate	<64	ug/kg	64	210	410	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Fluoranthene	<0.37	ug/kg	0.37	1.2	3.0	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Fluorene	430	ug/kg	0.37	1.2	3.0	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101855 Sample Description: C78SB-023M-0101-SO Sampled: 11/9/2011 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobenzene	<28	ug/kg	28	95	120	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Hexachlorobutadiene	<63	ug/kg	63	210	410	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Hexachlorocyclopentadiene	<53	ug/kg	53	170	200	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Hexachloroethane	<33	ug/kg	33	110	120	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Indeno(1,2,3-cd)pyrene	1000	ug/kg	0.37	1.2	3.0	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Isophorone	<51	ug/kg	51	170	200	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
N-Nitroso-di-n-propylamine	<71	ug/kg	71	230	410	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
N-Nitrosodiphenylamine & Diphn	<51	ug/kg	51	160	410	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Naphthalene	180	ug/kg	0.27	0.90	3.0	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Nitrobenzene	<60	ug/kg	60	200	200	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Pentachlorophenol	<240	ug/kg	240	810	1000	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Phenanthrene	4500	ug/kg	0.46	1.5	3.0	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Phenol	<160	ug/kg	160	540	610	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Pyrene	4500	ug/kg	0.42	1.4	1.5	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C ^
Surr: 2,4,6-Tribromophenol	36	% Recovery	35	125	35-125	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C
Surr: 2-Fluorobiphenyl	64	% Recovery	45	105	45-105	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C
Surr: 2-Fluorophenol	41	% Recovery	35	105	35-105	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C
Surr: Nitrobenzene-d5	67	% Recovery	35	100	35-100	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C
Surr: o-terphenyl-d14	69	% Recovery	30	125	30-125	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C
Surr: Phenol-d5	55	% Recovery	40	100	40-100	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C
Surr: Terphenyl-d14	69	% Recovery	30	125	30-125	1		11/21/2011 13:30	11/28/2011 18:32	RPN	EPA 8270C

Sub Lab Results

Asbestos	ATTACHED					1			12/01/2011 00:00	PML	

CT LAB#: 101856 Sample Description: C78SB-023V-0101-SO Sampled: 11/9/2011 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101856 Sample Description: C78SB-023V-0101-SO Sampled: 11/9/2011 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	84.2	%				1			11/17/2011 14:00	BMS	EPA 8000C
Organic Results											
1,1,1-Trichloroethane	<11	ug/kg	11	34	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
1,1,2,2-Tetrachloroethane	<6.4	ug/kg	6.4	22	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
1,1,2-Trichloroethane	<8.5	ug/kg	8.5	28	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
1,1-Dichloroethane	<12	ug/kg	12	39	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
1,1-Dichloroethene	<17	ug/kg	17	55	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
1,2-Dibromoethane	<11	ug/kg	11	36	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
1,2-Dichloroethane	<13	ug/kg	13	42	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
1,2-Dichloropropane	<7.5	ug/kg	7.5	23	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
2-Butanone	<110	ug/kg	110	360	530	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
2-Hexanone	<72	ug/kg	72	240	530	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
4-Methyl-2-pentanone	<87	ug/kg	87	290	530	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
Acetone	140	ug/kg	67	220	530	1	J B	11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
Benzene	<5.3	ug/kg	5.3	19	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
Bromochloromethane	<8.5	ug/kg	8.5	28	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
Bromodichloromethane	<9.6	ug/kg	9.6	32	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
Bromoform	<6.4	ug/kg	6.4	22	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
Bromomethane	<32	ug/kg	32	110	110	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
Carbon disulfide	<16	ug/kg	16	54	110	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
Carbon tetrachloride	<12	ug/kg	12	39	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
Chlorobenzene	<8.5	ug/kg	8.5	27	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
Chloroethane	<20	ug/kg	20	69	110	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
Chloroform	<9.6	ug/kg	9.6	34	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
Chloromethane	<27	ug/kg	27	89	110	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
cis-1,2-Dichloroethene	<11	ug/kg	11	36	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
cis-1,3-Dichloropropene	<11	ug/kg	11	34	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101856 Sample Description: C78SB-023V-0101-SO Sampled: 11/9/2011 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromochloromethane	<8.5	ug/kg	8.5	28	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
Ethylbenzene	14	ug/kg	8.5	27	53	1	J	11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
m & p-Xylene	36	ug/kg	19	64	110	1	J	11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
Methylene chloride	<43	ug/kg	43	140	110	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
o-Xylene	34	ug/kg	8.5	27	53	1	J	11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
Styrene	<6.4	ug/kg	6.4	21	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
Tetrachloroethene	<8.5	ug/kg	8.5	29	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
Toluene	32	ug/kg	7.5	27	53	1	J	11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
trans-1,2-Dichloroethene	<12	ug/kg	12	40	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
trans-1,3-Dichloropropene	<7.5	ug/kg	7.5	24	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
Trichloroethene	<11	ug/kg	11	34	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
Trichlorofluoromethane	<14	ug/kg	14	45	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
Vinyl chloride	<15	ug/kg	15	50	53	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B ^
1,2 Dichloroethane-d4	97	% Recovery	80	117	80-117	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B
Bromofluorobenzene	101	% Recovery	85	120	85-120	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B
d8-Toluene	99	% Recovery	85	115	85-115	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B
Dibromofluoromethane	96	% Recovery	82	118	82-118	1		11/16/2011 12:30	11/17/2011 11:22	APG	EPA 8260B

CT LAB#: 101857 Sample Description: C78SB-023M-0102-SO Sampled: 11/9/2011 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	99.4	%				1			11/17/2011 14:00	BMS	EPA 8000C
Nitrocellulose	<13	mg/kg	13	44	100	1		11/21/2011 08:00	11/29/2011 04:30	RLD	EPA 9056M
Metals Results											
Aluminum	5530	mg/kg	0.080	0.28	0.48	2		11/21/2011 08:00	11/22/2011 10:55	NAH	EPA 6010C ^
Antimony	3.8	mg/kg	0.26	0.87	1.6	2		11/21/2011 08:00	11/22/2011 10:55	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101857 Sample Description: C78SB-023M-0102-SO Sampled: 11/9/2011 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Arsenic	12.5	mg/kg	0.26	0.91	1.6	2		11/21/2011 08:00	11/22/2011 10:55	NAH	EPA 6010C ^
Barium	207	mg/kg	0.018	0.056	0.10	2		11/21/2011 08:00	11/22/2011 10:55	NAH	EPA 6010C ^
Beryllium	0.56	mg/kg	0.0080	0.024	0.080	2		11/21/2011 08:00	11/22/2011 10:55	NAH	EPA 6010C ^
Cadmium	1.2	mg/kg	0.012	0.042	0.080	2		11/21/2011 08:00	11/22/2011 10:55	NAH	EPA 6010C ^
Calcium	2980	mg/kg	0.48	1.6	2.8	2		11/21/2011 08:00	11/22/2011 10:55	NAH	EPA 6010C ^
Chromium	361	mg/kg	0.046	0.16	0.28	2		11/21/2011 08:00	11/22/2011 10:55	NAH	EPA 6010C ^
Cobalt	7.1	mg/kg	0.080	0.24	0.48	2		11/21/2011 08:00	11/22/2011 10:55	NAH	EPA 6010C ^
Copper	243	mg/kg	0.14	0.44	0.80	2		11/21/2011 08:00	11/22/2011 10:55	NAH	EPA 6010C ^
Iron	38000	mg/kg	0.60	2.0	3.6	2		11/21/2011 08:00	11/22/2011 10:55	NAH	EPA 6010C ^
Lead	568	mg/kg	0.080	0.28	0.50	2		11/21/2011 08:00	11/22/2011 10:55	NAH	EPA 6010C ^
Magnesium	1090	mg/kg	0.28	0.97	1.6	2		11/21/2011 08:00	11/22/2011 10:55	NAH	EPA 6010C ^
Manganese	391	mg/kg	0.050	0.17	0.30	2		11/21/2011 08:00	11/22/2011 10:55	NAH	EPA 6010C ^
Nickel	34.9	mg/kg	0.042	0.14	0.24	2		11/21/2011 08:00	11/22/2011 10:55	NAH	EPA 6010C ^
Selenium	0.20	mg/kg	0.060	0.21	0.40	1	J	11/21/2011 08:00	11/23/2011 10:31	NAH	EPA 6010C ^
Silver	0.44	mg/kg	0.034	0.11	0.20	2		11/21/2011 08:00	11/22/2011 10:55	NAH	EPA 6010C ^
Thallium	0.53	mg/kg	0.080	0.26	0.48	1		11/21/2011 08:00	11/23/2011 10:31	NAH	EPA 6010C ^
Vanadium	10.7	mg/kg	0.024	0.078	0.16	2		11/21/2011 08:00	11/22/2011 10:55	NAH	EPA 6010C ^
Zinc	870	mg/kg	0.10	0.32	0.60	2		11/21/2011 08:00	11/22/2011 10:55	NAH	EPA 6010C ^
Potassium	777	mg/kg	11	36	66	1		11/21/2011 08:00	11/22/2011 09:02	NAH	EPA 6010C ^
Sodium	<4.0	mg/kg	4.0	13	24	1		11/21/2011 08:00	11/22/2011 09:02	NAH	EPA 6010C ^
Mercury	0.023	mg/kg	0.0021	0.0070	0.0084	1		11/21/2011 12:00	11/22/2011 10:34	GCE	EPA 7471A ^
Organic Results											
Aroclor-1016	<10	ug/kg	10	35	100	1		11/17/2011 13:00	11/21/2011 14:37	JJY	EPA 8082A ^
Aroclor-1221	<20	ug/kg	20	66	100	1		11/17/2011 13:00	11/21/2011 14:37	JJY	EPA 8082A ^
Aroclor-1232	<27	ug/kg	27	91	100	1		11/17/2011 13:00	11/21/2011 14:37	JJY	EPA 8082A ^
Aroclor-1242	<29	ug/kg	29	97	100	1		11/17/2011 13:00	11/21/2011 14:37	JJY	EPA 8082A ^
Aroclor-1248	<29	ug/kg	29	98	100	1		11/17/2011 13:00	11/21/2011 14:37	JJY	EPA 8082A ^
Aroclor-1254	250	ug/kg	23	76	100	1		11/17/2011 13:00	11/21/2011 20:19	JJY	EPA 8082A ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101857 Sample Description: C78SB-023M-0102-SO Sampled: 11/9/2011 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Aroclor-1260	<12	ug/kg	12	38	100	1		11/17/2011 13:00	11/21/2011 14:37	JJY	EPA 8082A ^
Aroclor-1262	<21	ug/kg	21	71	100	1		11/17/2011 13:00	11/21/2011 14:37	JJY	EPA 8082A ^
Aroclor-1268	<28	ug/kg	28	93	100	1		11/17/2011 13:00	11/21/2011 14:37	JJY	EPA 8082A ^
Surr: DCBP	65	% Recovery	60	125	60-125	1		11/17/2011 13:00	11/21/2011 14:37	JJY	EPA 8082A
4,4'-DDD	<0.30	ug/kg	0.30	1.2	2.4	1		11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B ^
4,4'-DDE	<0.30	ug/kg	0.30	1.1	2.4	1		11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B ^
4,4'-DDT	<0.50	ug/kg	0.50	1.5	2.4	1		11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B ^
Aldrin	<0.50	ug/kg	0.50	1.7	2.4	1		11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B ^
alpha-BHC	<0.60	ug/kg	0.60	1.9	2.4	1		11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B ^
alpha-Chlordane	<0.30	ug/kg	0.30	1.1	2.4	1		11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B ^
beta-BHC	<0.60	ug/kg	0.60	2.0	2.4	1		11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B ^
Chlordane (Technical)	<4.0	ug/kg	4.0	30	60	1		11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B ^
delta-BHC	<0.30	ug/kg	0.30	1.1	2.4	1		11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B ^
Dieldrin	5.8	ug/kg	0.30	1.2	2.4	1	P	11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B ^
Endosulfan I	<0.70	ug/kg	0.70	2.2	2.4	1		11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B ^
Endosulfan II	0.70	ug/kg	0.30	1.2	2.4	1	J P	11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B ^
Endosulfan sulfate	<0.91	ug/kg	0.91	3.1	4.0	1		11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B ^
Endrin	3.7	ug/kg	0.40	1.4	2.4	1		11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B ^
Endrin aldehyde	<1.1	ug/kg	1.1	3.6	4.0	1		11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B ^
Endrin ketone	<0.80	ug/kg	0.80	2.8	4.0	1		11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B ^
gamma-Chlordane	<0.30	ug/kg	0.30	1.1	2.4	1		11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B ^
Heptachlor	<0.40	ug/kg	0.40	1.2	2.4	1		11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B ^
Heptachlor epoxide	1.6	ug/kg	0.50	1.7	2.4	1	J P	11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B ^
Lindane	1.4	ug/kg	0.50	1.6	2.4	1	J P	11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B ^
Methoxychlor	24	ug/kg	0.70	2.3	2.4	1		11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B ^
Toxaphene	<5.0	ug/kg	5.0	30	60	1		11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B ^
SURR:2,4,5,6-CL4-m-xylene	74	% Recovery	70	125	70-125	1		11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B
SURR:Decachlorobiphenyl	79	% Recovery	55	130	55-130	1		11/17/2011 13:00	11/29/2011 15:14	JJY	EPA 8081B

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101857 Sample Description: C78SB-023M-0102-SO Sampled: 11/9/2011 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Nitroguanidine	<0.059	mg/kg	0.059	0.21	0.25	1		11/22/2011 09:45	11/23/2011 10:52	red	EPA 8330
1,2-Dinitrobenzene	80	% Recovery	50	150	50-150	1		11/22/2011 09:45	11/23/2011 10:52	red	EPA 8330
1,3,5-Trinitrobenzene	<0.13	mg/kg	0.13	0.43	0.50	1		11/17/2011 14:00	11/22/2011 15:03	red	EPA 8330B
1,3-Dinitrobenzene	<0.080	mg/kg	0.080	0.26	0.40	1		11/17/2011 14:00	11/22/2011 15:03	red	EPA 8330B
2,4,6-Trinitrotoluene	<0.090	mg/kg	0.090	0.31	0.40	1		11/17/2011 14:00	11/22/2011 15:03	red	EPA 8330B
2,4-Dinitrotoluene	<0.080	mg/kg	0.080	0.25	0.50	1		11/17/2011 14:00	11/22/2011 15:03	red	EPA 8330B
2,6-Dinitrotoluene	<0.070	mg/kg	0.070	0.24	0.50	1		11/17/2011 14:00	11/22/2011 15:03	red	EPA 8330B
2-Amino-4,6-dinitrotoluene	<0.090	mg/kg	0.090	0.29	0.40	1		11/17/2011 14:00	11/22/2011 15:03	red	EPA 8330B
2-Nitrotoluene	<0.090	mg/kg	0.090	0.28	0.50	1		11/17/2011 14:00	11/22/2011 15:03	red	EPA 8330B
3-Nitrotoluene	<0.11	mg/kg	0.11	0.36	0.40	1		11/17/2011 14:00	11/22/2011 15:03	red	EPA 8330B
4-Amino-2,6-dinitrotoluene	<0.080	mg/kg	0.080	0.25	0.40	1		11/17/2011 14:00	11/22/2011 15:03	red	EPA 8330B
4-Nitrotoluene	<0.10	mg/kg	0.10	0.34	0.40	1		11/17/2011 14:00	11/22/2011 15:03	red	EPA 8330B
HMX	<0.12	mg/kg	0.12	0.39	0.40	1		11/17/2011 14:00	11/22/2011 15:03	red	EPA 8330B
Nitrobenzene	<0.10	mg/kg	0.10	0.34	0.40	1		11/17/2011 14:00	11/22/2011 15:03	red	EPA 8330B
Nitroglycerin	<0.50	mg/kg	0.50	1.8	2.0	1		11/17/2011 14:00	11/22/2011 15:03	red	EPA 8330B
PETN	<0.60	mg/kg	0.60	1.9	2.0	1		11/17/2011 14:00	11/22/2011 15:03	red	EPA 8330B
RDX	<0.14	mg/kg	0.14	0.46	0.50	1		11/17/2011 14:00	11/22/2011 15:03	red	EPA 8330B
Tetryl	<0.090	mg/kg	0.090	0.30	0.40	1		11/17/2011 14:00	11/22/2011 15:03	red	EPA 8330B
1,2-Dinitrobenzene	93	% Recovery	74	128	74-128	1		11/17/2011 14:00	11/22/2011 15:03	red	EPA 8330B
1,2,4-Trichlorobenzene	<21	ug/kg	21	70	120	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
1,2-Dichlorobenzene	<24	ug/kg	24	80	120	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
1,3-Dichlorobenzene	<20	ug/kg	20	68	120	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
1,4-Dichlorobenzene	<19	ug/kg	19	64	120	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
2,4,5-Trichlorophenol	<130	ug/kg	130	440	600	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
2,4,6-Trichlorophenol	<130	ug/kg	130	440	600	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
2,4-Dichlorophenol	<120	ug/kg	120	410	600	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
2,4-Dimethylphenol	<100	ug/kg	100	330	600	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
2,4-Dinitrophenol	<270	ug/kg	270	910	2000	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101857 Sample Description: C78SB-023M-0102-SO Sampled: 11/9/2011 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4-Dinitrotoluene	<24	ug/kg	24	80	120	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
2,6-Dinitrotoluene	<24	ug/kg	24	82	120	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
2-Chloronaphthalene	<23	ug/kg	23	77	120	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
2-Chlorophenol	<340	ug/kg	340	1100	2000	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
2-Methylnaphthalene	36	ug/kg	0.22	0.74	3.0	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
2-Methylphenol	<420	ug/kg	420	1400	2000	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
2-Nitroaniline	<23	ug/kg	23	79	120	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
2-Nitrophenol	<280	ug/kg	280	950	1000	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
3 & 4-Methylphenol	<660	ug/kg	660	2200	3600	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
3,3'-Dichlorobenzidine	<150	ug/kg	150	490	500	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
3-Nitroaniline	<22	ug/kg	22	73	120	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
4,6-Dinitro-2-methylphenol	<270	ug/kg	270	910	1000	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
4-Bromophenyl-phenyl ether	<25	ug/kg	25	84	120	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
4-Chloro-3-methylphenol	<380	ug/kg	380	1300	2000	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
4-Chloroaniline	<39	ug/kg	39	130	200	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
4-Chlorophenyl-phenyl ether	<26	ug/kg	26	88	200	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
4-Nitroaniline	<30	ug/kg	30	100	120	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
4-Nitrophenol	<400	ug/kg	400	1300	2000	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Acenaphthene	20	ug/kg	0.33	1.1	3.0	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Acenaphthylene	87	ug/kg	0.24	0.83	3.0	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Anthracene	170	ug/kg	0.31	1.0	3.0	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Benzo(a)anthracene	420	ug/kg	0.32	1.1	3.0	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Benzo(a)pyrene	240	ug/kg	0.28	0.93	5.0	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Benzo(b)fluoranthene	410	ug/kg	0.40	1.3	3.0	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Benzo(g,h,i)perylene	130	ug/kg	0.39	1.3	3.0	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Benzo(k)fluoranthene	150	ug/kg	0.37	1.2	3.0	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Benzoic acid	<290	ug/kg	290	990	3000	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Benzyl alcohol	<84	ug/kg	84	280	400	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Bis(2-chloroethoxy)methane	<23	ug/kg	23	77	120	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101857 Sample Description: C78SB-023M-0102-SO Sampled: 11/9/2011 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bis(2-chloroethyl)ether	<25	ug/kg	25	85	120	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Bis(2-chloroisopropyl)ether	<30	ug/kg	30	100	120	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Butylbenzylphthalate	<74	ug/kg	74	240	400	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Carbazole	60	ug/kg	28	95	120	1	J	11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Chrysene	360	ug/kg	0.35	1.2	3.0	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Di-n-butylphthalate	80	ug/kg	80	260	400	1	J	11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Di-n-octylphthalate	<59	ug/kg	59	200	200	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Dibenzo(a,h)anthracene	42	ug/kg	0.35	1.2	3.0	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Dibenzofuran	80	ug/kg	24	82	120	1	J	11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Diethylphthalate	<65	ug/kg	65	220	400	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Dimethylphthalate	<64	ug/kg	64	210	400	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Fluoranthene	1100	ug/kg	0.36	1.2	3.0	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Fluorene	120	ug/kg	0.36	1.2	3.0	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Hexachlorobenzene	<28	ug/kg	28	95	120	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Hexachlorobutadiene	<62	ug/kg	62	210	400	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Hexachlorocyclopentadiene	<52	ug/kg	52	170	200	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Hexachloroethane	<33	ug/kg	33	110	120	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Indeno(1,2,3-cd)pyrene	180	ug/kg	0.36	1.2	3.0	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Isophorone	120	ug/kg	50	170	200	1	J	11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
N-Nitroso-di-n-propylamine	<71	ug/kg	71	230	400	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
N-Nitrosodiphenylamine & Diphn	<50	ug/kg	50	160	400	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Naphthalene	51	ug/kg	0.27	0.90	3.0	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Nitrobenzene	<59	ug/kg	59	200	200	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Pentachlorophenol	<240	ug/kg	240	810	1000	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Phenanthrene	850	ug/kg	0.45	1.5	3.0	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Phenol	<160	ug/kg	160	530	600	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Pyrene	750	ug/kg	0.41	1.4	1.5	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C ^
Surr: 2,4,6-Tribromophenol	16	% Recovery	35	125	35-125	1	S	11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C
Surr: 2-Fluorobiphenyl	59	% Recovery	45	105	45-105	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101857 Sample Description: C78SB-023M-0102-SO Sampled: 11/9/2011 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Surr: 2-Fluorophenol	28	% Recovery	35	105	35-105	1	S	11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C
Surr: Nitrobenzene-d5	61	% Recovery	35	100	35-100	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C
Surr: o-terphenyl-d14	75	% Recovery	30	125	30-125	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C
Surr: Phenol-d5	48	% Recovery	40	100	40-100	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C
Surr: Terphenyl-d14	69	% Recovery	30	125	30-125	1		11/21/2011 13:30	11/28/2011 17:02	RPN	EPA 8270C
Sub Lab Results											
Asbestos	ATTACHED					1			12/01/2011 00:00	PML	

CT LAB#: 101858 Sample Description: C78SB-023V-0102-SO Sampled: 11/9/2011 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	90.6	%				1			11/17/2011 14:00	BMS	EPA 8000C
Organic Results											
1,1,1-Trichloroethane	<9.7	ug/kg	9.7	31	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
1,1,2,2-Tetrachloroethane	<5.8	ug/kg	5.8	20	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
1,1,2-Trichloroethane	<7.8	ug/kg	7.8	25	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
1,1-Dichloroethane	<11	ug/kg	11	36	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
1,1-Dichloroethene	<16	ug/kg	16	51	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
1,2-Dibromoethane	<9.7	ug/kg	9.7	33	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
1,2-Dichloroethane	<12	ug/kg	12	38	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
1,2-Dichloropropane	<6.8	ug/kg	6.8	21	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
2-Butanone	<97	ug/kg	97	330	490	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
2-Hexanone	<66	ug/kg	66	220	490	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
4-Methyl-2-pentanone	<80	ug/kg	80	260	490	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
Acetone	120	ug/kg	61	200	490	1	J B	11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
Benzene	<4.9	ug/kg	4.9	18	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101858 Sample Description: C78SB-023V-0102-SO Sampled: 11/9/2011 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromochloromethane	<7.8	ug/kg	7.8	25	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
Bromodichloromethane	<8.8	ug/kg	8.8	29	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
Bromoform	<5.8	ug/kg	5.8	20	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
Bromomethane	<29	ug/kg	29	97	97	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
Carbon disulfide	<15	ug/kg	15	50	97	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
Carbon tetrachloride	<11	ug/kg	11	36	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
Chlorobenzene	<7.8	ug/kg	7.8	24	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
Chloroethane	<19	ug/kg	19	63	97	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
Chloroform	<8.8	ug/kg	8.8	31	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
Chloromethane	<24	ug/kg	24	82	97	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
cis-1,2-Dichloroethene	<9.7	ug/kg	9.7	33	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
cis-1,3-Dichloropropene	<9.7	ug/kg	9.7	31	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
Dibromochloromethane	<7.8	ug/kg	7.8	25	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
Ethylbenzene	<7.8	ug/kg	7.8	24	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
m & p-Xylene	<18	ug/kg	18	58	97	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
Methylene chloride	<39	ug/kg	39	130	97	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
o-Xylene	<7.8	ug/kg	7.8	24	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
Styrene	<5.8	ug/kg	5.8	19	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
Tetrachloroethene	<7.8	ug/kg	7.8	26	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
Toluene	<6.8	ug/kg	6.8	24	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
trans-1,2-Dichloroethene	<11	ug/kg	11	37	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
trans-1,3-Dichloropropene	<6.8	ug/kg	6.8	22	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
Trichloroethene	<9.7	ug/kg	9.7	31	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
Trichlorofluoromethane	<13	ug/kg	13	41	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
Vinyl chloride	<14	ug/kg	14	46	49	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B ^
1,2 Dichloroethane-d4	97	% Recovery	80	117	80-117	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B
Bromofluorobenzene	100	% Recovery	85	120	85-120	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B
d8-Toluene	99	% Recovery	85	115	85-115	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B
Dibromofluoromethane	99	% Recovery	82	118	82-118	1		11/16/2011 12:30	11/17/2011 12:01	APG	EPA 8260B

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101859 Sample Description: C78SB-023M-0001-SO Sampled: 11/9/2011 0925

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	99.3	%				1			11/17/2011 14:00	BMS	EPA 8000C
Nitrocellulose	<13	mg/kg	13	44	100	1		11/21/2011 08:00	11/29/2011 04:48	RLD	EPA 9056M
Metals Results											
Aluminum	12300	mg/kg	0.081	0.28	0.48	2		11/21/2011 08:00	11/22/2011 11:01	NAH	EPA 6010C ^
Antimony	7.2	mg/kg	0.26	0.87	1.6	2		11/21/2011 08:00	11/22/2011 11:01	NAH	EPA 6010C ^
Arsenic	20.8	mg/kg	0.26	0.91	1.6	2		11/21/2011 08:00	11/22/2011 11:01	NAH	EPA 6010C ^
Barium	740	mg/kg	0.091	0.28	0.50	10		11/21/2011 08:00	11/23/2011 10:38	NAH	EPA 6010C ^
Beryllium	1.4	mg/kg	0.0081	0.024	0.081	2		11/21/2011 08:00	11/22/2011 11:01	NAH	EPA 6010C ^
Cadmium	2.8	mg/kg	0.012	0.042	0.081	2		11/21/2011 08:00	11/22/2011 11:01	NAH	EPA 6010C ^
Calcium	5140	mg/kg	0.48	1.6	2.8	2		11/21/2011 08:00	11/22/2011 11:01	NAH	EPA 6010C ^
Chromium	524	mg/kg	0.046	0.16	0.28	2		11/21/2011 08:00	11/22/2011 11:01	NAH	EPA 6010C ^
Cobalt	10.8	mg/kg	0.081	0.24	0.48	2		11/21/2011 08:00	11/22/2011 11:01	NAH	EPA 6010C ^
Copper	725	mg/kg	0.14	0.44	0.81	2		11/21/2011 08:00	11/22/2011 11:01	NAH	EPA 6010C ^
Iron	106000	mg/kg	3.0	10	18	10		11/21/2011 08:00	11/23/2011 10:38	NAH	EPA 6010C ^
Lead	1970	mg/kg	0.081	0.28	0.50	2		11/21/2011 08:00	11/22/2011 11:01	NAH	EPA 6010C ^
Magnesium	1740	mg/kg	0.28	0.97	1.6	2		11/21/2011 08:00	11/22/2011 11:01	NAH	EPA 6010C ^
Manganese	801	mg/kg	0.050	0.17	0.30	2		11/21/2011 08:00	11/22/2011 11:01	NAH	EPA 6010C ^
Nickel	66.5	mg/kg	0.042	0.14	0.24	2		11/21/2011 08:00	11/22/2011 11:01	NAH	EPA 6010C ^
Selenium	0.93	mg/kg	0.12	0.42	0.81	2		11/21/2011 08:00	11/22/2011 11:01	NAH	EPA 6010C ^
Silver	1.2	mg/kg	0.034	0.11	0.20	2		11/21/2011 08:00	11/22/2011 11:01	NAH	EPA 6010C ^
Thallium	1.2	mg/kg	0.16	0.52	0.97	2		11/21/2011 08:00	11/22/2011 11:01	NAH	EPA 6010C ^
Vanadium	18.5	mg/kg	0.024	0.079	0.16	2		11/21/2011 08:00	11/22/2011 11:01	NAH	EPA 6010C ^
Zinc	1620	mg/kg	0.10	0.32	0.60	2		11/21/2011 08:00	11/22/2011 11:01	NAH	EPA 6010C ^
Potassium	1900	mg/kg	11	36	66	1		11/21/2011 08:00	11/22/2011 09:05	NAH	EPA 6010C ^
Sodium	<4.0	mg/kg	4.0	13	24	1		11/21/2011 08:00	11/22/2011 09:05	NAH	EPA 6010C ^
Mercury	0.046	mg/kg	0.0021	0.0070	0.0084	1		11/21/2011 12:00	11/22/2011 10:36	GCE	EPA 7471A ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101859 Sample Description: C78SB-023M-0001-SO Sampled: 11/9/2011 0925

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results											
Aroclor-1016	<10	ug/kg	10	35	100	1		11/17/2011 13:00	11/21/2011 14:55	JJY	EPA 8082A ^
Aroclor-1221	<20	ug/kg	20	67	100	1		11/17/2011 13:00	11/21/2011 14:55	JJY	EPA 8082A ^
Aroclor-1232	<27	ug/kg	27	91	100	1		11/17/2011 13:00	11/21/2011 14:55	JJY	EPA 8082A ^
Aroclor-1242	<29	ug/kg	29	97	100	1		11/17/2011 13:00	11/21/2011 14:55	JJY	EPA 8082A ^
Aroclor-1248	<29	ug/kg	29	98	100	1		11/17/2011 13:00	11/21/2011 14:55	JJY	EPA 8082A ^
Aroclor-1254	420	ug/kg	23	77	100	1		11/17/2011 13:00	11/21/2011 20:36	JJY	EPA 8082A ^
Aroclor-1260	<12	ug/kg	12	38	100	1		11/17/2011 13:00	11/21/2011 14:55	JJY	EPA 8082A ^
Aroclor-1262	<21	ug/kg	21	72	100	1		11/17/2011 13:00	11/21/2011 14:55	JJY	EPA 8082A ^
Aroclor-1268	<28	ug/kg	28	93	100	1		11/17/2011 13:00	11/21/2011 14:55	JJY	EPA 8082A ^
Surr: DCBP	58	% Recovery	60	125	60-125	1	S	11/17/2011 13:00	11/21/2011 14:55	JJY	EPA 8082A
4,4'-DDD	<0.30	ug/kg	0.30	1.2	2.4	1		11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B ^
4,4'-DDE	15	ug/kg	0.30	1.1	2.4	1	P	11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B ^
4,4'-DDT	22	ug/kg	0.50	1.5	2.4	1	P	11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B ^
Aldrin	<0.50	ug/kg	0.50	1.7	2.4	1		11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B ^
alpha-BHC	<0.60	ug/kg	0.60	1.9	2.4	1		11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B ^
alpha-Chlordane	<0.30	ug/kg	0.30	1.1	2.4	1		11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B ^
beta-BHC	<0.60	ug/kg	0.60	2.0	2.4	1		11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B ^
Chlordane (Technical)	<4.0	ug/kg	4.0	30	60	1		11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B ^
delta-BHC	1.0	ug/kg	0.30	1.1	2.4	1	J P	11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B ^
Dieldrin	8.2	ug/kg	0.30	1.2	2.4	1	P	11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B ^
Endosulfan I	6.1	ug/kg	0.71	2.2	2.4	1	P	11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B ^
Endosulfan II	<0.30	ug/kg	0.30	1.2	2.4	1		11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B ^
Endosulfan sulfate	0.91	ug/kg	0.91	3.1	4.0	1	J P	11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B ^
Endrin	<0.40	ug/kg	0.40	1.4	2.4	1		11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B ^
Endrin aldehyde	<1.1	ug/kg	1.1	3.6	4.0	1		11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B ^
Endrin ketone	<0.81	ug/kg	0.81	2.8	4.0	1		11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B ^
gamma-Chlordane	8.0	ug/kg	0.30	1.1	2.4	1	P	11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101859 Sample Description: C78SB-023M-0001-SO Sampled: 11/9/2011 0925

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Heptachlor	4.7	ug/kg	0.40	1.2	2.4	1	P	11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B ^
Heptachlor epoxide	2.2	ug/kg	0.50	1.7	2.4	1	J P	11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B ^
Lindane	<0.50	ug/kg	0.50	1.6	2.4	1		11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B ^
Methoxychlor	17	ug/kg	0.71	2.3	2.4	1	P	11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B ^
Toxaphene	<5.0	ug/kg	5.0	30	60	1		11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B ^
SURR:2,4,5,6-CL4-m-xylene	77	% Recovery	70	125	70-125	1		11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B
SURR:Decachlorobiphenyl	95	% Recovery	55	130	55-130	1		11/17/2011 13:00	11/30/2011 18:09	JJY	EPA 8081B
Nitroguanidine	<0.060	mg/kg	0.060	0.21	0.25	1		11/22/2011 09:45	11/23/2011 11:00	red	EPA 8330
1,2-Dinitrobenzene	76	% Recovery	50	150	50-150	1		11/22/2011 09:45	11/23/2011 11:00	red	EPA 8330
1,3,5-Trinitrobenzene	<0.13	mg/kg	0.13	0.43	0.50	1		11/17/2011 14:00	11/22/2011 15:21	red	EPA 8330B
1,3-Dinitrobenzene	<0.080	mg/kg	0.080	0.26	0.40	1		11/17/2011 14:00	11/22/2011 15:21	red	EPA 8330B
2,4,6-Trinitrotoluene	<0.090	mg/kg	0.090	0.31	0.40	1		11/17/2011 14:00	11/22/2011 15:21	red	EPA 8330B
2,4-Dinitrotoluene	<0.080	mg/kg	0.080	0.25	0.50	1		11/17/2011 14:00	11/22/2011 15:21	red	EPA 8330B
2,6-Dinitrotoluene	<0.070	mg/kg	0.070	0.24	0.50	1		11/17/2011 14:00	11/22/2011 15:21	red	EPA 8330B
2-Amino-4,6-dinitrotoluene	<0.090	mg/kg	0.090	0.29	0.40	1		11/17/2011 14:00	11/22/2011 15:21	red	EPA 8330B
2-Nitrotoluene	<0.090	mg/kg	0.090	0.28	0.50	1		11/17/2011 14:00	11/22/2011 15:21	red	EPA 8330B
3-Nitrotoluene	<0.11	mg/kg	0.11	0.36	0.40	1		11/17/2011 14:00	11/22/2011 15:21	red	EPA 8330B
4-Amino-2,6-dinitrotoluene	<0.080	mg/kg	0.080	0.25	0.40	1		11/17/2011 14:00	11/22/2011 15:21	red	EPA 8330B
4-Nitrotoluene	<0.10	mg/kg	0.10	0.34	0.40	1		11/17/2011 14:00	11/22/2011 15:21	red	EPA 8330B
HMX	<0.12	mg/kg	0.12	0.39	0.40	1		11/17/2011 14:00	11/22/2011 15:21	red	EPA 8330B
Nitrobenzene	<0.10	mg/kg	0.10	0.34	0.40	1		11/17/2011 14:00	11/22/2011 15:21	red	EPA 8330B
Nitroglycerin	<0.50	mg/kg	0.50	1.8	2.0	1		11/17/2011 14:00	11/22/2011 15:21	red	EPA 8330B
PETN	<0.60	mg/kg	0.60	1.9	2.0	1		11/17/2011 14:00	11/22/2011 15:21	red	EPA 8330B
RDX	<0.14	mg/kg	0.14	0.46	0.50	1		11/17/2011 14:00	11/22/2011 15:21	red	EPA 8330B
Tetryl	<0.090	mg/kg	0.090	0.30	0.40	1		11/17/2011 14:00	11/22/2011 15:21	red	EPA 8330B
1,2-Dinitrobenzene	103	% Recovery	74	128	74-128	1		11/17/2011 14:00	11/22/2011 15:21	red	EPA 8330B
1,2,4-Trichlorobenzene	<21	ug/kg	21	69	120	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
1,2-Dichlorobenzene	<24	ug/kg	24	79	120	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101859 Sample Description: C78SB-023M-0001-SO Sampled: 11/9/2011 0925

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3-Dichlorobenzene	<20	ug/kg	20	67	120	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
1,4-Dichlorobenzene	<19	ug/kg	19	63	120	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
2,4,5-Trichlorophenol	<130	ug/kg	130	440	600	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
2,4,6-Trichlorophenol	<130	ug/kg	130	440	600	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
2,4-Dichlorophenol	<120	ug/kg	120	410	600	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
2,4-Dimethylphenol	<99	ug/kg	99	330	600	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
2,4-Dinitrophenol	<270	ug/kg	270	900	2000	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
2,4-Dinitrotoluene	<24	ug/kg	24	79	120	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
2,6-Dinitrotoluene	<24	ug/kg	24	81	120	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
2-Chloronaphthalene	<23	ug/kg	23	76	120	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
2-Chlorophenol	<340	ug/kg	340	1100	2000	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
2-Methylnaphthalene	160	ug/kg	0.22	0.73	3.0	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
2-Methylphenol	<420	ug/kg	420	1400	2000	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
2-Nitroaniline	<23	ug/kg	23	78	120	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
2-Nitrophenol	<280	ug/kg	280	940	1000	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
3 & 4-Methylphenol	<650	ug/kg	650	2200	3600	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
3,3'-Dichlorobenzidine	<150	ug/kg	150	490	500	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
3-Nitroaniline	<22	ug/kg	22	72	120	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
4,6-Dinitro-2-methylphenol	<270	ug/kg	270	900	1000	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
4-Bromophenyl-phenyl ether	<25	ug/kg	25	83	120	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
4-Chloro-3-methylphenol	<380	ug/kg	380	1300	2000	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
4-Chloroaniline	<39	ug/kg	39	130	200	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
4-Chlorophenyl-phenyl ether	<26	ug/kg	26	87	200	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
4-Nitroaniline	<30	ug/kg	30	100	120	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
4-Nitrophenol	<400	ug/kg	400	1300	2000	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Acenaphthene	150	ug/kg	0.33	1.1	3.0	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Acenaphthylene	760	ug/kg	0.24	0.82	3.0	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Anthracene	1200	ug/kg	0.31	1.0	3.0	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Benzo(a)anthracene	5000	ug/kg	0.32	1.1	3.0	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101859 Sample Description: C78SB-023M-0001-SO Sampled: 11/9/2011 0925

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Benzo(a)pyrene	2300	ug/kg	0.28	0.92	5.0	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Benzo(b)fluoranthene	3900	ug/kg	0.40	1.3	3.0	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Benzo(g,h,i)perylene	970	ug/kg	0.39	1.3	3.0	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Benzo(k)fluoranthene	1300	ug/kg	0.37	1.2	3.0	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Benzoic acid	<290	ug/kg	290	980	3000	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Benzyl alcohol	<83	ug/kg	83	280	400	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Bis(2-chloroethoxy)methane	<23	ug/kg	23	76	120	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Bis(2-chloroethyl)ether	<25	ug/kg	25	84	120	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Bis(2-chloroisopropyl)ether	<30	ug/kg	30	99	120	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Butylbenzylphthalate	<73	ug/kg	73	240	400	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Carbazole	510	ug/kg	28	94	120	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Chrysene	3900	ug/kg	0.35	1.2	3.0	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Di-n-butylphthalate	130	ug/kg	79	260	400	1	J	11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Di-n-octylphthalate	<59	ug/kg	59	200	200	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Dibenzo(a,h)anthracene	380	ug/kg	0.35	1.2	3.0	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Dibenzofuran	610	ug/kg	24	81	120	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Diethylphthalate	<64	ug/kg	64	220	400	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Dimethylphthalate	<63	ug/kg	63	210	400	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Fluoranthene	<0.36	ug/kg	0.36	1.2	3.0	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Fluorene	860	ug/kg	0.36	1.2	3.0	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Hexachlorobenzene	<28	ug/kg	28	94	120	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Hexachlorobutadiene	<62	ug/kg	62	210	400	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Hexachlorocyclopentadiene	<52	ug/kg	52	170	200	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Hexachloroethane	<33	ug/kg	33	110	120	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Indeno(1,2,3-cd)pyrene	1500	ug/kg	0.36	1.2	3.0	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Isophorone	120	ug/kg	50	170	200	1	J	11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
N-Nitroso-di-n-propylamine	<70	ug/kg	70	230	400	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
N-Nitrosodiphenylamine & Diphn	<50	ug/kg	50	160	400	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Naphthalene	220	ug/kg	0.27	0.89	3.0	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101859 Sample Description: C78SB-023M-0001-SO Sampled: 11/9/2011 0925

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Nitrobenzene	<59	ug/kg	59	200	200	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Pentachlorophenol	<240	ug/kg	240	800	1000	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Phenanthrene	<0.45	ug/kg	0.45	1.5	3.0	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Phenol	<160	ug/kg	160	530	600	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Pyrene	<0.41	ug/kg	0.41	1.4	1.5	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C ^
Surr: 2,4,6-Tribromophenol	9	% Recovery	35	125	35-125	1	S	11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C
Surr: 2-Fluorobiphenyl	59	% Recovery	45	105	45-105	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C
Surr: 2-Fluorophenol	26	% Recovery	35	105	35-105	1	S	11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C
Surr: Nitrobenzene-d5	57	% Recovery	35	100	35-100	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C
Surr: o-terphenyl-d14	68	% Recovery	30	125	30-125	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C
Surr: Phenol-d5	47	% Recovery	40	100	40-100	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C
Surr: Terphenyl-d14	68	% Recovery	30	125	30-125	1		11/21/2011 13:30	11/28/2011 18:55	RPN	EPA 8270C
Sub Lab Results											
Asbestos	ATTACHED					1			12/01/2011 00:00	PML	

CT LAB#: 101860 Sample Description: C78SB-023V-0001-SO Sampled: 11/9/2011 0925

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	88.2	%				1			11/17/2011 14:00	BMS	EPA 8000C
Organic Results											
1,1,1-Trichloroethane	<11	ug/kg	11	37	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
1,1,2,2-Tetrachloroethane	<6.9	ug/kg	6.9	24	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
1,1,2-Trichloroethane	<9.2	ug/kg	9.2	30	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
1,1-Dichloroethane	<13	ug/kg	13	42	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
1,1-Dichloroethene	<18	ug/kg	18	59	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
1,2-Dibromoethane	<11	ug/kg	11	39	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101860 Sample Description: C78SB-023V-0001-SO Sampled: 11/9/2011 0925

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dichloroethane	<14	ug/kg	14	45	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
1,2-Dichloropropane	<8.0	ug/kg	8.0	25	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
2-Butanone	<110	ug/kg	110	390	570	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
2-Hexanone	<78	ug/kg	78	260	570	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
4-Methyl-2-pentanone	<94	ug/kg	94	310	570	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
Acetone	160	ug/kg	72	240	570	1	J B	11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
Benzene	<5.7	ug/kg	5.7	21	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
Bromochloromethane	<9.2	ug/kg	9.2	30	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
Bromodichloromethane	<10	ug/kg	10	34	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
Bromoform	<6.9	ug/kg	6.9	24	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
Bromomethane	<34	ug/kg	34	110	110	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
Carbon disulfide	<17	ug/kg	17	58	110	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
Carbon tetrachloride	<13	ug/kg	13	42	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
Chlorobenzene	<9.2	ug/kg	9.2	29	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
Chloroethane	<22	ug/kg	22	74	110	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
Chloroform	<10	ug/kg	10	37	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
Chloromethane	<29	ug/kg	29	96	110	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
cis-1,2-Dichloroethene	<11	ug/kg	11	39	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
cis-1,3-Dichloropropene	<11	ug/kg	11	37	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
Dibromochloromethane	<9.2	ug/kg	9.2	30	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
Ethylbenzene	<9.2	ug/kg	9.2	29	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
m & p-Xylene	<21	ug/kg	21	69	110	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
Methylene chloride	<46	ug/kg	46	150	110	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
o-Xylene	<9.2	ug/kg	9.2	29	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
Styrene	<6.9	ug/kg	6.9	23	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
Tetrachloroethene	<9.2	ug/kg	9.2	31	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
Toluene	<8.0	ug/kg	8.0	29	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
trans-1,2-Dichloroethene	<13	ug/kg	13	43	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
trans-1,3-Dichloropropene	<8.0	ug/kg	8.0	26	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101860 Sample Description: C78SB-023V-0001-SO Sampled: 11/9/2011 0925

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Trichloroethene	<11	ug/kg	11	37	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
Trichlorofluoromethane	<15	ug/kg	15	48	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
Vinyl chloride	<16	ug/kg	16	54	57	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B ^
1,2 Dichloroethane-d4	98	% Recovery	80	117	80-117	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B
Bromofluorobenzene	102	% Recovery	85	120	85-120	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B
d8-Toluene	99	% Recovery	85	115	85-115	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B
Dibromofluoromethane	95	% Recovery	82	118	82-118	1		11/16/2011 12:30	11/17/2011 12:40	APG	EPA 8260B

CT LAB#: 101861 Sample Description: C78SB-023M-0002-SO Sampled: 11/9/2011 1000

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	99.1	%				1			11/17/2011 14:00	BMS	EPA 8000C
Nitrocellulose	<13	mg/kg	13	44	100	1		11/21/2011 08:00	11/29/2011 05:06	RLD	EPA 9056M
Metals Results											
Aluminum	13400	mg/kg	0.081	0.28	0.48	2		11/21/2011 08:00	11/22/2011 11:09	NAH	EPA 6010C ^
Antimony	0.94	mg/kg	0.26	0.87	1.6	2	J	11/21/2011 08:00	11/22/2011 11:09	NAH	EPA 6010C ^
Arsenic	18.0	mg/kg	0.26	0.91	1.6	2		11/21/2011 08:00	11/22/2011 11:09	NAH	EPA 6010C ^
Barium	146	mg/kg	0.018	0.057	0.10	2		11/21/2011 08:00	11/22/2011 11:09	NAH	EPA 6010C ^
Beryllium	1.1	mg/kg	0.0081	0.024	0.081	2		11/21/2011 08:00	11/22/2011 11:09	NAH	EPA 6010C ^
Cadmium	0.38	mg/kg	0.012	0.042	0.081	2		11/21/2011 08:00	11/22/2011 11:09	NAH	EPA 6010C ^
Calcium	28100	mg/kg	0.48	1.6	2.8	2		11/21/2011 08:00	11/22/2011 11:09	NAH	EPA 6010C ^
Chromium	467	mg/kg	0.046	0.16	0.28	2		11/21/2011 08:00	11/22/2011 11:09	NAH	EPA 6010C ^
Cobalt	7.0	mg/kg	0.081	0.24	0.48	2		11/21/2011 08:00	11/22/2011 11:09	NAH	EPA 6010C ^
Copper	26.4	mg/kg	0.14	0.44	0.81	2		11/21/2011 08:00	11/22/2011 11:09	NAH	EPA 6010C ^
Iron	27500	mg/kg	0.61	2.0	3.6	2		11/21/2011 08:00	11/22/2011 11:09	NAH	EPA 6010C ^
Lead	46.3	mg/kg	0.081	0.28	0.50	2		11/21/2011 08:00	11/22/2011 11:09	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101861 Sample Description: C78SB-023M-0002-SO Sampled: 11/9/2011 1000

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Magnesium	3800	mg/kg	0.28	0.97	1.6	2		11/21/2011 08:00	11/22/2011 11:09	NAH	EPA 6010C ^
Manganese	1210	mg/kg	0.050	0.17	0.30	2		11/21/2011 08:00	11/22/2011 11:09	NAH	EPA 6010C ^
Nickel	16.2	mg/kg	0.042	0.14	0.24	2		11/21/2011 08:00	11/22/2011 11:09	NAH	EPA 6010C ^
Selenium	1.3	mg/kg	0.12	0.42	0.81	2		11/21/2011 08:00	11/22/2011 11:09	NAH	EPA 6010C ^
Silver	0.046	mg/kg	0.017	0.057	0.10	1	J	11/21/2011 08:00	11/23/2011 10:45	NAH	EPA 6010C ^
Thallium	1.1	mg/kg	0.16	0.52	0.97	2		11/21/2011 08:00	11/22/2011 11:09	NAH	EPA 6010C ^
Vanadium	17.0	mg/kg	0.024	0.079	0.16	2		11/21/2011 08:00	11/22/2011 11:09	NAH	EPA 6010C ^
Zinc	256	mg/kg	0.10	0.32	0.61	2		11/21/2011 08:00	11/22/2011 11:09	NAH	EPA 6010C ^
Potassium	1570	mg/kg	11	36	67	1		11/21/2011 08:00	11/22/2011 09:07	NAH	EPA 6010C ^
Sodium	<4.0	mg/kg	4.0	13	24	1		11/21/2011 08:00	11/22/2011 09:07	NAH	EPA 6010C ^
Mercury	0.047	mg/kg	0.0021	0.0071	0.0084	1		11/21/2011 12:00	11/22/2011 10:38	GCE	EPA 7471A ^
Organic Results											
Aroclor-1016	<10	ug/kg	10	35	100	1		11/17/2011 13:00	11/21/2011 15:13	JJY	EPA 8082A ^
Aroclor-1221	<20	ug/kg	20	66	100	1		11/17/2011 13:00	11/21/2011 15:13	JJY	EPA 8082A ^
Aroclor-1232	<27	ug/kg	27	90	100	1		11/17/2011 13:00	11/21/2011 15:13	JJY	EPA 8082A ^
Aroclor-1242	<29	ug/kg	29	96	100	1		11/17/2011 13:00	11/21/2011 15:13	JJY	EPA 8082A ^
Aroclor-1248	<29	ug/kg	29	97	100	1		11/17/2011 13:00	11/21/2011 15:13	JJY	EPA 8082A ^
Aroclor-1254	<23	ug/kg	23	76	100	1		11/17/2011 13:00	11/21/2011 15:13	JJY	EPA 8082A ^
Aroclor-1260	<12	ug/kg	12	38	100	1		11/17/2011 13:00	11/21/2011 15:13	JJY	EPA 8082A ^
Aroclor-1262	<21	ug/kg	21	71	100	1		11/17/2011 13:00	11/21/2011 15:13	JJY	EPA 8082A ^
Aroclor-1268	<28	ug/kg	28	92	100	1		11/17/2011 13:00	11/21/2011 15:13	JJY	EPA 8082A ^
Surr: DCBP	54	% Recovery	60	125	60-125	1	S	11/17/2011 13:00	11/21/2011 15:13	JJY	EPA 8082A
4,4'-DDD	2.9	ug/kg	0.30	1.2	2.4	1		11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B ^
4,4'-DDE	6.3	ug/kg	0.30	1.1	2.4	1	P	11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B ^
4,4'-DDT	23	ug/kg	0.50	1.5	2.4	1		11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B ^
Aldrin	<0.50	ug/kg	0.50	1.7	2.4	1		11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B ^
alpha-BHC	<0.60	ug/kg	0.60	1.9	2.4	1		11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B ^
alpha-Chlordane	<0.30	ug/kg	0.30	1.1	2.4	1		11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101861 Sample Description: C78SB-023M-0002-SO Sampled: 11/9/2011 1000

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
beta-BHC	17	ug/kg	0.60	2.0	2.4	1	P	11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B ^
Chlordane (Technical)	<4.0	ug/kg	4.0	30	60	1		11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B ^
delta-BHC	<0.30	ug/kg	0.30	1.1	2.4	1		11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B ^
Dieldrin	<0.30	ug/kg	0.30	1.2	2.4	1		11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B ^
Endosulfan I	<0.70	ug/kg	0.70	2.2	2.4	1		11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B ^
Endosulfan II	0.40	ug/kg	0.30	1.2	2.4	1	J P	11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B ^
Endosulfan sulfate	<0.90	ug/kg	0.90	3.1	4.0	1		11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B ^
Endrin	8.2	ug/kg	0.40	1.4	2.4	1	P	11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B ^
Endrin aldehyde	<1.1	ug/kg	1.1	3.6	4.0	1		11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B ^
Endrin ketone	<0.80	ug/kg	0.80	2.8	4.0	1		11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B ^
gamma-Chlordane	<0.30	ug/kg	0.30	1.1	2.4	1		11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B ^
Heptachlor	<0.40	ug/kg	0.40	1.2	2.4	1		11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B ^
Heptachlor epoxide	<0.50	ug/kg	0.50	1.7	2.4	1		11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B ^
Lindane	<0.50	ug/kg	0.50	1.6	2.4	1		11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B ^
Methoxychlor	7.4	ug/kg	0.70	2.3	2.4	1	P	11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B ^
Toxaphene	<5.0	ug/kg	5.0	30	60	1		11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B ^
SURR:2,4,5,6-CL4-m-xylene	75	% Recovery	70	125	70-125	1		11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B
SURR:Decachlorobiphenyl	77	% Recovery	55	130	55-130	1		11/17/2011 13:00	11/30/2011 18:22	JJY	EPA 8081B
Nitroguanidine	<0.060	mg/kg	0.060	0.21	0.25	1		11/22/2011 09:45	11/23/2011 11:08	red	EPA 8330
1,2-Dinitrobenzene	53	% Recovery	50	150	50-150	1		11/22/2011 09:45	11/23/2011 11:08	red	EPA 8330
1,3,5-Trinitrobenzene	<0.13	mg/kg	0.13	0.43	0.50	1		11/17/2011 14:00	11/22/2011 15:39	red	EPA 8330B
1,3-Dinitrobenzene	<0.080	mg/kg	0.080	0.26	0.40	1		11/17/2011 14:00	11/22/2011 15:39	red	EPA 8330B
2,4,6-Trinitrotoluene	<0.090	mg/kg	0.090	0.31	0.40	1		11/17/2011 14:00	11/22/2011 15:39	red	EPA 8330B
2,4-Dinitrotoluene	<0.080	mg/kg	0.080	0.25	0.50	1		11/17/2011 14:00	11/22/2011 15:39	red	EPA 8330B
2,6-Dinitrotoluene	<0.070	mg/kg	0.070	0.24	0.50	1		11/17/2011 14:00	11/22/2011 15:39	red	EPA 8330B
2-Amino-4,6-dinitrotoluene	<0.090	mg/kg	0.090	0.29	0.40	1		11/17/2011 14:00	11/22/2011 15:39	red	EPA 8330B
2-Nitrotoluene	<0.090	mg/kg	0.090	0.28	0.50	1		11/17/2011 14:00	11/22/2011 15:39	red	EPA 8330B
3-Nitrotoluene	<0.11	mg/kg	0.11	0.36	0.40	1		11/17/2011 14:00	11/22/2011 15:39	red	EPA 8330B

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101861 Sample Description: C78SB-023M-0002-SO Sampled: 11/9/2011 1000

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Amino-2,6-dinitrotoluene	<0.080	mg/kg	0.080	0.25	0.40	1		11/17/2011 14:00	11/22/2011 15:39	red	EPA 8330B
4-Nitrotoluene	<0.10	mg/kg	0.10	0.34	0.40	1		11/17/2011 14:00	11/22/2011 15:39	red	EPA 8330B
HMX	<0.12	mg/kg	0.12	0.39	0.40	1		11/17/2011 14:00	11/22/2011 15:39	red	EPA 8330B
Nitrobenzene	<0.10	mg/kg	0.10	0.34	0.40	1		11/17/2011 14:00	11/22/2011 15:39	red	EPA 8330B
Nitroglycerin	<0.50	mg/kg	0.50	1.8	2.0	1		11/17/2011 14:00	11/22/2011 15:39	red	EPA 8330B
PETN	<0.60	mg/kg	0.60	1.9	2.0	1		11/17/2011 14:00	11/22/2011 15:39	red	EPA 8330B
RDX	<0.14	mg/kg	0.14	0.46	0.50	1		11/17/2011 14:00	11/22/2011 15:39	red	EPA 8330B
Tetryl	<0.090	mg/kg	0.090	0.30	0.40	1		11/17/2011 14:00	11/22/2011 15:39	red	EPA 8330B
1,2-Dinitrobenzene	95	% Recovery	74	128	74-128	1		11/17/2011 14:00	11/22/2011 15:39	red	EPA 8330B
1,2,4-Trichlorobenzene	<21	ug/kg	21	70	120	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
1,2-Dichlorobenzene	<24	ug/kg	24	80	120	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
1,3-Dichlorobenzene	<20	ug/kg	20	68	120	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
1,4-Dichlorobenzene	<19	ug/kg	19	64	120	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
2,4,5-Trichlorophenol	<130	ug/kg	130	450	610	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
2,4,6-Trichlorophenol	<130	ug/kg	130	450	610	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
2,4-Dichlorophenol	<120	ug/kg	120	410	610	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
2,4-Dimethylphenol	<100	ug/kg	100	330	610	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
2,4-Dinitrophenol	<270	ug/kg	270	910	2000	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
2,4-Dinitrotoluene	<24	ug/kg	24	80	120	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
2,6-Dinitrotoluene	<24	ug/kg	24	82	120	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
2-Chloronaphthalene	<23	ug/kg	23	77	120	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
2-Chlorophenol	<340	ug/kg	340	1100	2000	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
2-Methylnaphthalene	940	ug/kg	0.22	0.74	3.0	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
2-Methylphenol	<430	ug/kg	430	1400	2000	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
2-Nitroaniline	<23	ug/kg	23	79	120	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
2-Nitrophenol	<280	ug/kg	280	950	1000	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
3 & 4-Methylphenol	<660	ug/kg	660	2200	3600	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
3,3'-Dichlorobenzidine	<150	ug/kg	150	500	510	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
3-Nitroaniline	<22	ug/kg	22	73	120	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101861 Sample Description: C78SB-023M-0002-SO Sampled: 11/9/2011 1000

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4,6-Dinitro-2-methylphenol	<270	ug/kg	270	910	1000	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
4-Bromophenyl-phenyl ether	<25	ug/kg	25	84	120	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
4-Chloro-3-methylphenol	<380	ug/kg	380	1300	2000	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
4-Chloroaniline	<39	ug/kg	39	130	200	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
4-Chlorophenyl-phenyl ether	<26	ug/kg	26	88	200	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
4-Nitroaniline	<30	ug/kg	30	100	120	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
4-Nitrophenol	<400	ug/kg	400	1300	2000	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Acenaphthene	100	ug/kg	0.33	1.1	3.0	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Acenaphthylene	36	ug/kg	0.24	0.83	3.0	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Anthracene	400	ug/kg	0.31	1.0	3.0	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Benzo(a)anthracene	1100	ug/kg	0.32	1.1	3.0	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Benzo(a)pyrene	840	ug/kg	0.28	0.93	5.1	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Benzo(b)fluoranthene	1700	ug/kg	0.40	1.3	3.0	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Benzo(g,h,i)perylene	340	ug/kg	0.39	1.3	3.0	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Benzo(k)fluoranthene	520	ug/kg	0.37	1.2	3.0	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Benzoic acid	<290	ug/kg	290	990	3000	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Benzyl alcohol	<84	ug/kg	84	280	400	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Bis(2-chloroethoxy)methane	<23	ug/kg	23	77	120	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Bis(2-chloroethyl)ether	<25	ug/kg	25	85	120	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Bis(2-chloroisopropyl)ether	<30	ug/kg	30	100	120	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Butylbenzylphthalate	<74	ug/kg	74	240	400	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Carbazole	280	ug/kg	28	95	120	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Chrysene	1300	ug/kg	0.35	1.2	3.0	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Di-n-butylphthalate	130	ug/kg	80	260	400	1	J	11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Di-n-octylphthalate	<60	ug/kg	60	200	200	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Dibenzo(a,h)anthracene	100	ug/kg	0.35	1.2	3.0	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Dibenzofuran	200	ug/kg	24	82	120	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Diethylphthalate	<65	ug/kg	65	220	400	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Dimethylphthalate	<64	ug/kg	64	210	400	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101861 Sample Description: C78SB-023M-0002-SO Sampled: 11/9/2011 1000

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Fluoranthene	3400	ug/kg	0.36	1.2	3.0	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Fluorene	110	ug/kg	0.36	1.2	3.0	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Hexachlorobenzene	<28	ug/kg	28	95	120	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Hexachlorobutadiene	<63	ug/kg	63	210	400	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Hexachlorocyclopentadiene	<53	ug/kg	53	170	200	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Hexachloroethane	<33	ug/kg	33	110	120	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Indeno(1,2,3-cd)pyrene	450	ug/kg	0.36	1.2	3.0	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Isophorone	<51	ug/kg	51	170	200	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
N-Nitroso-di-n-propylamine	<71	ug/kg	71	230	400	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
N-Nitrosodiphenylamine & Diphn	<51	ug/kg	51	160	400	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Naphthalene	610	ug/kg	0.27	0.90	3.0	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Nitrobenzene	<60	ug/kg	60	200	200	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Pentachlorophenol	<240	ug/kg	240	810	1000	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Phenanthrene	1600	ug/kg	0.46	1.5	3.0	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Phenol	<160	ug/kg	160	540	610	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Pyrene	2500	ug/kg	0.41	1.4	1.5	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C ^
Surr: 2,4,6-Tribromophenol	42	% Recovery	35	125	35-125	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C
Surr: 2-Fluorobiphenyl	58	% Recovery	45	105	45-105	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C
Surr: 2-Fluorophenol	33	% Recovery	35	105	35-105	1	S	11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C
Surr: Nitrobenzene-d5	51	% Recovery	35	100	35-100	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C
Surr: o-terphenyl-d14	66	% Recovery	30	125	30-125	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C
Surr: Phenol-d5	54	% Recovery	40	100	40-100	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C
Surr: Terphenyl-d14	59	% Recovery	30	125	30-125	1		11/21/2011 13:30	11/28/2011 19:17	RPN	EPA 8270C

Sub Lab Results

Asbestos	ATTACHED					1			12/01/2011 00:00	PML	

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101862 Sample Description: C78SB-023V-0002-SO Sampled: 11/9/2011 1000

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	86.0	%				1			11/17/2011 14:00	BMS	EPA 8000C
Organic Results											
1,1,1-Trichloroethane	<14	ug/kg	14	43	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
1,1,2,2-Tetrachloroethane	<8.1	ug/kg	8.1	29	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
1,1,2-Trichloroethane	<11	ug/kg	11	35	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
1,1-Dichloroethane	<15	ug/kg	15	50	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
1,1-Dichloroethene	<22	ug/kg	22	71	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
1,2-Dibromoethane	<14	ug/kg	14	46	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
1,2-Dichloroethane	<16	ug/kg	16	53	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
1,2-Dichloropropane	<9.5	ug/kg	9.5	30	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
2-Butanone	<140	ug/kg	140	460	680	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
2-Hexanone	<92	ug/kg	92	310	680	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
4-Methyl-2-pentanone	<110	ug/kg	110	370	680	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
Acetone	190	ug/kg	86	290	680	1	J B	11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
Benzene	35	ug/kg	6.8	24	68	1	J	11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
Bromochloromethane	<11	ug/kg	11	35	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
Bromodichloromethane	<12	ug/kg	12	41	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
Bromoform	<8.1	ug/kg	8.1	29	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
Bromomethane	<41	ug/kg	41	140	140	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
Carbon disulfide	<20	ug/kg	20	69	140	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
Carbon tetrachloride	<15	ug/kg	15	50	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
Chlorobenzene	<11	ug/kg	11	34	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
Chloroethane	<26	ug/kg	26	88	140	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
Chloroform	<12	ug/kg	12	43	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
Chloromethane	<34	ug/kg	34	110	140	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
cis-1,2-Dichloroethene	<14	ug/kg	14	46	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
cis-1,3-Dichloropropene	<14	ug/kg	14	43	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101862 Sample Description: C78SB-023V-0002-SO Sampled: 11/9/2011 1000

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromochloromethane	<11	ug/kg	11	35	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
Ethylbenzene	61	ug/kg	11	34	68	1	J	11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
m & p-Xylene	170	ug/kg	24	81	140	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
Methylene chloride	<54	ug/kg	54	180	140	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
o-Xylene	150	ug/kg	11	34	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
Styrene	<8.1	ug/kg	8.1	27	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
Tetrachloroethene	<11	ug/kg	11	37	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
Toluene	150	ug/kg	9.5	34	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
trans-1,2-Dichloroethene	<15	ug/kg	15	52	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
trans-1,3-Dichloropropene	<9.5	ug/kg	9.5	31	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
Trichloroethene	<14	ug/kg	14	43	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
Trichlorofluoromethane	<18	ug/kg	18	57	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
Vinyl chloride	<19	ug/kg	19	64	68	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B ^
1,2 Dichloroethane-d4	101	% Recovery	80	117	80-117	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B
Bromofluorobenzene	102	% Recovery	85	120	85-120	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B
d8-Toluene	101	% Recovery	85	115	85-115	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B
Dibromofluoromethane	99	% Recovery	82	118	82-118	1		11/16/2011 12:30	11/17/2011 13:19	APG	EPA 8260B

CT LAB#: 101863 Sample Description: C78SB-023M-0003-SO Sampled: 11/9/2011 1055

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	99.2	%				1			11/17/2011 14:00	BMS	EPA 8000C
Nitrocellulose	<13	mg/kg	13	44	100	1		11/21/2011 08:00	11/29/2011 05:24	RLD	EPA 9056M
Metals Results											
Aluminum	12600	mg/kg	0.081	0.28	0.48	2		11/21/2011 08:00	11/22/2011 11:16	NAH	EPA 6010C ^
Antimony	0.53	mg/kg	0.13	0.43	0.81	1	J	11/21/2011 08:00	11/23/2011 10:52	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101863 Sample Description: C78SB-023M-0003-SO Sampled: 11/9/2011 1055

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Arsenic	14.3	mg/kg	0.26	0.91	1.6	2		11/21/2011 08:00	11/22/2011 11:16	NAH	EPA 6010C ^
Barium	88.7	mg/kg	0.018	0.056	0.10	2		11/21/2011 08:00	11/22/2011 11:16	NAH	EPA 6010C ^
Beryllium	0.63	mg/kg	0.0081	0.024	0.081	2		11/21/2011 08:00	11/22/2011 11:16	NAH	EPA 6010C ^
Cadmium	0.25	mg/kg	0.012	0.042	0.081	2		11/21/2011 08:00	11/22/2011 11:16	NAH	EPA 6010C ^
Calcium	2080	mg/kg	0.48	1.6	2.8	2		11/21/2011 08:00	11/22/2011 11:16	NAH	EPA 6010C ^
Chromium	229	mg/kg	0.046	0.16	0.28	2		11/21/2011 08:00	11/22/2011 11:16	NAH	EPA 6010C ^
Cobalt	9.7	mg/kg	0.081	0.24	0.48	2		11/21/2011 08:00	11/22/2011 11:16	NAH	EPA 6010C ^
Copper	20.1	mg/kg	0.14	0.44	0.81	2		11/21/2011 08:00	11/22/2011 11:16	NAH	EPA 6010C ^
Iron	31700	mg/kg	0.60	2.0	3.6	2		11/21/2011 08:00	11/22/2011 11:16	NAH	EPA 6010C ^
Lead	18.4	mg/kg	0.081	0.28	0.50	2		11/21/2011 08:00	11/22/2011 11:16	NAH	EPA 6010C ^
Magnesium	2260	mg/kg	0.28	0.97	1.6	2		11/21/2011 08:00	11/22/2011 11:16	NAH	EPA 6010C ^
Manganese	600	mg/kg	0.050	0.17	0.30	2		11/21/2011 08:00	11/22/2011 11:16	NAH	EPA 6010C ^
Nickel	19.3	mg/kg	0.042	0.14	0.24	2		11/21/2011 08:00	11/22/2011 11:16	NAH	EPA 6010C ^
Selenium	0.54	mg/kg	0.060	0.21	0.40	1		11/21/2011 08:00	11/23/2011 10:52	NAH	EPA 6010C ^
Silver	<0.017	mg/kg	0.017	0.056	0.10	1		11/21/2011 08:00	11/23/2011 10:52	NAH	EPA 6010C ^
Thallium	0.45	mg/kg	0.081	0.26	0.48	1	J	11/21/2011 08:00	11/23/2011 10:52	NAH	EPA 6010C ^
Vanadium	21.9	mg/kg	0.024	0.079	0.16	2		11/21/2011 08:00	11/22/2011 11:16	NAH	EPA 6010C ^
Zinc	133	mg/kg	0.10	0.32	0.60	2		11/21/2011 08:00	11/22/2011 11:16	NAH	EPA 6010C ^
Potassium	1630	mg/kg	11	36	67	1		11/21/2011 08:00	11/22/2011 09:10	NAH	EPA 6010C ^
Sodium	<4.0	mg/kg	4.0	13	24	1		11/21/2011 08:00	11/22/2011 09:10	NAH	EPA 6010C ^
Mercury	0.016	mg/kg	0.0021	0.0071	0.0084	1		11/21/2011 12:00	11/22/2011 10:40	GCE	EPA 7471A ^
Organic Results											
Aroclor-1016	<10	ug/kg	10	35	100	1		11/17/2011 13:00	11/21/2011 15:31	JJY	EPA 8082A ^
Aroclor-1221	<20	ug/kg	20	67	100	1		11/17/2011 13:00	11/21/2011 15:31	JJY	EPA 8082A ^
Aroclor-1232	<27	ug/kg	27	91	100	1		11/17/2011 13:00	11/21/2011 15:31	JJY	EPA 8082A ^
Aroclor-1242	<29	ug/kg	29	97	100	1		11/17/2011 13:00	11/21/2011 15:31	JJY	EPA 8082A ^
Aroclor-1248	<29	ug/kg	29	98	100	1		11/17/2011 13:00	11/21/2011 15:31	JJY	EPA 8082A ^
Aroclor-1254	<23	ug/kg	23	77	100	1		11/17/2011 13:00	11/21/2011 15:31	JJY	EPA 8082A ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101863 Sample Description: C78SB-023M-0003-SO Sampled: 11/9/2011 1055

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Aroclor-1260	<12	ug/kg	12	38	100	1		11/17/2011 13:00	11/21/2011 15:31	JJY	EPA 8082A ^
Aroclor-1262	<21	ug/kg	21	72	100	1		11/17/2011 13:00	11/21/2011 15:31	JJY	EPA 8082A ^
Aroclor-1268	<28	ug/kg	28	93	100	1		11/17/2011 13:00	11/21/2011 15:31	JJY	EPA 8082A ^
Surr: DCBP	61	% Recovery	60	125	60-125	1		11/17/2011 13:00	11/21/2011 15:31	JJY	EPA 8082A
4,4'-DDD	<0.30	ug/kg	0.30	1.2	2.4	1		11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B ^
4,4'-DDE	2.6	ug/kg	0.30	1.1	2.4	1	P	11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B ^
4,4'-DDT	1.8	ug/kg	0.51	1.5	2.4	1	J P	11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B ^
Aldrin	<0.51	ug/kg	0.51	1.7	2.4	1		11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B ^
alpha-BHC	<0.61	ug/kg	0.61	1.9	2.4	1		11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B ^
alpha-Chlordane	<0.30	ug/kg	0.30	1.1	2.4	1		11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B ^
beta-BHC	<0.61	ug/kg	0.61	2.0	2.4	1		11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B ^
Chlordane (Technical)	<4.1	ug/kg	4.1	30	61	1		11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B ^
delta-BHC	<0.30	ug/kg	0.30	1.1	2.4	1		11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B ^
Dieldrin	<0.30	ug/kg	0.30	1.2	2.4	1		11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B ^
Endosulfan I	<0.71	ug/kg	0.71	2.2	2.4	1		11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B ^
Endosulfan II	<0.30	ug/kg	0.30	1.2	2.4	1		11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B ^
Endosulfan sulfate	<0.91	ug/kg	0.91	3.1	4.1	1		11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B ^
Endrin	<0.41	ug/kg	0.41	1.4	2.4	1		11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B ^
Endrin aldehyde	1.6	ug/kg	1.1	3.6	4.1	1	J	11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B ^
Endrin ketone	<0.81	ug/kg	0.81	2.8	4.1	1		11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B ^
gamma-Chlordane	<0.30	ug/kg	0.30	1.1	2.4	1		11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B ^
Heptachlor	<0.41	ug/kg	0.41	1.2	2.4	1		11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B ^
Heptachlor epoxide	<0.51	ug/kg	0.51	1.7	2.4	1		11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B ^
Lindane	<0.51	ug/kg	0.51	1.6	2.4	1		11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B ^
Methoxychlor	<0.71	ug/kg	0.71	2.3	2.4	1		11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B ^
Toxaphene	<5.1	ug/kg	5.1	30	61	1		11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B ^
SURR:2,4,5,6-CL4-m-xylene	62	% Recovery	70	125	70-125	1	S	11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B
SURR:Decachlorobiphenyl	60	% Recovery	55	130	55-130	1		11/17/2011 13:00	11/29/2011 17:34	JJY	EPA 8081B

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101863 Sample Description: C78SB-023M-0003-SO Sampled: 11/9/2011 1055

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Nitroguanidine	<0.060	mg/kg	0.060	0.21	0.25	1		11/22/2011 09:45	11/23/2011 11:16	red	EPA 8330
1,2-Dinitrobenzene	89	% Recovery	50	150	50-150	1		11/22/2011 09:45	11/23/2011 11:16	red	EPA 8330
1,3,5-Trinitrobenzene	<0.13	mg/kg	0.13	0.43	0.50	1		11/17/2011 14:00	11/22/2011 15:58	red	EPA 8330B
1,3-Dinitrobenzene	<0.080	mg/kg	0.080	0.26	0.40	1		11/17/2011 14:00	11/22/2011 15:58	red	EPA 8330B
2,4,6-Trinitrotoluene	<0.090	mg/kg	0.090	0.31	0.40	1		11/17/2011 14:00	11/22/2011 15:58	red	EPA 8330B
2,4-Dinitrotoluene	<0.080	mg/kg	0.080	0.25	0.50	1		11/17/2011 14:00	11/22/2011 15:58	red	EPA 8330B
2,6-Dinitrotoluene	<0.070	mg/kg	0.070	0.24	0.50	1		11/17/2011 14:00	11/22/2011 15:58	red	EPA 8330B
2-Amino-4,6-dinitrotoluene	<0.090	mg/kg	0.090	0.29	0.40	1		11/17/2011 14:00	11/22/2011 15:58	red	EPA 8330B
2-Nitrotoluene	<0.090	mg/kg	0.090	0.28	0.50	1		11/17/2011 14:00	11/22/2011 15:58	red	EPA 8330B
3-Nitrotoluene	<0.11	mg/kg	0.11	0.36	0.40	1		11/17/2011 14:00	11/22/2011 15:58	red	EPA 8330B
4-Amino-2,6-dinitrotoluene	<0.080	mg/kg	0.080	0.25	0.40	1		11/17/2011 14:00	11/22/2011 15:58	red	EPA 8330B
4-Nitrotoluene	<0.10	mg/kg	0.10	0.34	0.40	1		11/17/2011 14:00	11/22/2011 15:58	red	EPA 8330B
HMX	<0.12	mg/kg	0.12	0.39	0.40	1		11/17/2011 14:00	11/22/2011 15:58	red	EPA 8330B
Nitrobenzene	<0.10	mg/kg	0.10	0.34	0.40	1		11/17/2011 14:00	11/22/2011 15:58	red	EPA 8330B
Nitroglycerin	<0.50	mg/kg	0.50	1.8	2.0	1		11/17/2011 14:00	11/22/2011 15:58	red	EPA 8330B
PETN	<0.60	mg/kg	0.60	1.9	2.0	1		11/17/2011 14:00	11/22/2011 15:58	red	EPA 8330B
RDX	<0.14	mg/kg	0.14	0.46	0.50	1		11/17/2011 14:00	11/22/2011 15:58	red	EPA 8330B
Tetryl	<0.090	mg/kg	0.090	0.30	0.40	1		11/17/2011 14:00	11/22/2011 15:58	red	EPA 8330B
1,2-Dinitrobenzene	95	% Recovery	74	128	74-128	1		11/17/2011 14:00	11/22/2011 15:58	red	EPA 8330B
1,2,4-Trichlorobenzene	<21	ug/kg	21	70	120	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
1,2-Dichlorobenzene	<24	ug/kg	24	80	120	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
1,3-Dichlorobenzene	<20	ug/kg	20	68	120	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
1,4-Dichlorobenzene	<19	ug/kg	19	64	120	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
2,4,5-Trichlorophenol	<130	ug/kg	130	440	600	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
2,4,6-Trichlorophenol	<130	ug/kg	130	440	600	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
2,4-Dichlorophenol	<120	ug/kg	120	410	600	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
2,4-Dimethylphenol	<100	ug/kg	100	330	600	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
2,4-Dinitrophenol	<270	ug/kg	270	910	2000	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101863 Sample Description: C78SB-023M-0003-SO Sampled: 11/9/2011 1055

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4-Dinitrotoluene	<24	ug/kg	24	80	120	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
2,6-Dinitrotoluene	<24	ug/kg	24	82	120	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
2-Chloronaphthalene	<23	ug/kg	23	77	120	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
2-Chlorophenol	<340	ug/kg	340	1100	2000	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
2-Methylnaphthalene	14	ug/kg	0.22	0.74	3.0	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
2-Methylphenol	<420	ug/kg	420	1400	2000	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
2-Nitroaniline	<23	ug/kg	23	79	120	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
2-Nitrophenol	<280	ug/kg	280	950	1000	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
3 & 4-Methylphenol	<660	ug/kg	660	2200	3600	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
3,3'-Dichlorobenzidine	<150	ug/kg	150	490	500	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
3-Nitroaniline	<22	ug/kg	22	73	120	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
4,6-Dinitro-2-methylphenol	<270	ug/kg	270	910	1000	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
4-Bromophenyl-phenyl ether	<25	ug/kg	25	84	120	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
4-Chloro-3-methylphenol	<380	ug/kg	380	1300	2000	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
4-Chloroaniline	<39	ug/kg	39	130	200	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
4-Chlorophenyl-phenyl ether	<26	ug/kg	26	88	200	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
4-Nitroaniline	<30	ug/kg	30	100	120	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
4-Nitrophenol	<400	ug/kg	400	1300	2000	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Acenaphthene	1.6	ug/kg	0.33	1.1	3.0	1	J	11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Acenaphthylene	3.1	ug/kg	0.24	0.83	3.0	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Anthracene	6.1	ug/kg	0.31	1.0	3.0	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Benzo(a)anthracene	33	ug/kg	0.32	1.1	3.0	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Benzo(a)pyrene	23	ug/kg	0.28	0.93	5.0	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Benzo(b)fluoranthene	40	ug/kg	0.40	1.3	3.0	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Benzo(g,h,i)perylene	13	ug/kg	0.39	1.3	3.0	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Benzo(k)fluoranthene	14	ug/kg	0.37	1.2	3.0	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Benzoic acid	<290	ug/kg	290	990	3000	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Benzyl alcohol	<84	ug/kg	84	280	400	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Bis(2-chloroethoxy)methane	<23	ug/kg	23	77	120	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101863 Sample Description: C78SB-023M-0003-SO Sampled: 11/9/2011 1055

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bis(2-chloroethyl)ether	<25	ug/kg	25	85	120	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Bis(2-chloroisopropyl)ether	<30	ug/kg	30	100	120	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Butylbenzylphthalate	<74	ug/kg	74	240	400	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Carbazole	<28	ug/kg	28	95	120	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Chrysene	30	ug/kg	0.35	1.2	3.0	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Di-n-butylphthalate	120	ug/kg	80	260	400	1	J	11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Di-n-octylphthalate	<59	ug/kg	59	200	200	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Dibenzo(a,h)anthracene	4.2	ug/kg	0.35	1.2	3.0	1	B	11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Dibenzofuran	<24	ug/kg	24	82	120	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Diethylphthalate	<65	ug/kg	65	220	400	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Dimethylphthalate	<64	ug/kg	64	210	400	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Fluoranthene	66	ug/kg	0.36	1.2	3.0	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Fluorene	3.6	ug/kg	0.36	1.2	3.0	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Hexachlorobenzene	<28	ug/kg	28	95	120	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Hexachlorobutadiene	<63	ug/kg	63	210	400	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Hexachlorocyclopentadiene	<52	ug/kg	52	170	200	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Hexachloroethane	<33	ug/kg	33	110	120	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Indeno(1,2,3-cd)pyrene	19	ug/kg	0.36	1.2	3.0	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Isophorone	<50	ug/kg	50	170	200	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
N-Nitroso-di-n-propylamine	<71	ug/kg	71	230	400	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
N-Nitrosodiphenylamine & Diphn	<50	ug/kg	50	160	400	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Naphthalene	11	ug/kg	0.27	0.90	3.0	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Nitrobenzene	<59	ug/kg	59	200	200	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Pentachlorophenol	<240	ug/kg	240	810	1000	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Phenanthrene	43	ug/kg	0.45	1.5	3.0	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Phenol	<160	ug/kg	160	530	600	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Pyrene	51	ug/kg	0.41	1.4	1.5	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C ^
Surr: 2,4,6-Tribromophenol	31	% Recovery	35	125	35-125	1	S	11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C
Surr: 2-Fluorobiphenyl	58	% Recovery	45	105	45-105	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101863 Sample Description: C78SB-023M-0003-SO Sampled: 11/9/2011 1055

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Surr: 2-Fluorophenol	35	% Recovery	35	105	35-105	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C
Surr: Nitrobenzene-d5	64	% Recovery	35	100	35-100	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C
Surr: o-terphenyl-d14	70	% Recovery	30	125	30-125	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C
Surr: Phenol-d5	51	% Recovery	40	100	40-100	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C
Surr: Terphenyl-d14	63	% Recovery	30	125	30-125	1		11/21/2011 13:30	11/28/2011 17:25	RPN	EPA 8270C
Sub Lab Results											
Asbestos	ATTACHED					1			12/01/2011 00:00	PML	

CT LAB#: 101864 Sample Description: C78SB-023V-0003-SO Sampled: 11/9/2011 1055

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	86.8	%				1			11/17/2011 14:00	BMS	EPA 8000C
Organic Results											
1,1,1-Trichloroethane	<11	ug/kg	11	35	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
1,1,2,2-Tetrachloroethane	<6.5	ug/kg	6.5	23	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
1,1,2-Trichloroethane	<8.7	ug/kg	8.7	28	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
1,1-Dichloroethane	<12	ug/kg	12	40	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
1,1-Dichloroethene	<17	ug/kg	17	56	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
1,2-Dibromoethane	<11	ug/kg	11	37	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
1,2-Dichloroethane	<13	ug/kg	13	42	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
1,2-Dichloropropane	<7.6	ug/kg	7.6	24	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
2-Butanone	<110	ug/kg	110	370	540	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
2-Hexanone	<74	ug/kg	74	250	540	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
4-Methyl-2-pentanone	<89	ug/kg	89	290	540	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
Acetone	160	ug/kg	68	230	540	1	J B	11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
Benzene	<5.4	ug/kg	5.4	20	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101864 Sample Description: C78SB-023V-0003-SO Sampled: 11/9/2011 1055

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromochloromethane	<8.7	ug/kg	8.7	28	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
Bromodichloromethane	<9.8	ug/kg	9.8	33	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
Bromoform	<6.5	ug/kg	6.5	23	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
Bromomethane	<33	ug/kg	33	110	110	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
Carbon disulfide	<16	ug/kg	16	55	110	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
Carbon tetrachloride	<12	ug/kg	12	40	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
Chlorobenzene	<8.7	ug/kg	8.7	27	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
Chloroethane	<21	ug/kg	21	70	110	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
Chloroform	<9.8	ug/kg	9.8	35	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
Chloromethane	<27	ug/kg	27	91	110	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
cis-1,2-Dichloroethene	<11	ug/kg	11	37	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
cis-1,3-Dichloropropene	<11	ug/kg	11	35	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
Dibromochloromethane	<8.7	ug/kg	8.7	28	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
Ethylbenzene	<8.7	ug/kg	8.7	27	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
m & p-Xylene	<20	ug/kg	20	65	110	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
Methylene chloride	<43	ug/kg	43	140	110	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
o-Xylene	<8.7	ug/kg	8.7	27	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
Styrene	<6.5	ug/kg	6.5	22	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
Tetrachloroethene	<8.7	ug/kg	8.7	29	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
Toluene	<7.6	ug/kg	7.6	27	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
trans-1,2-Dichloroethene	<12	ug/kg	12	41	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
trans-1,3-Dichloropropene	<7.6	ug/kg	7.6	25	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
Trichloroethene	<11	ug/kg	11	35	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
Trichlorofluoromethane	<14	ug/kg	14	46	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
Vinyl chloride	<15	ug/kg	15	51	54	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B ^
1,2 Dichloroethane-d4	100	% Recovery	80	117	80-117	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B
Bromofluorobenzene	99	% Recovery	85	120	85-120	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B
d8-Toluene	99	% Recovery	85	115	85-115	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B
Dibromofluoromethane	99	% Recovery	82	118	82-118	1		11/16/2011 12:30	11/17/2011 13:59	APG	EPA 8260B

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101865 Sample Description: C78SB-023M-0004-SO Sampled: 11/9/2011 1130

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	99.4	%				1			11/17/2011 14:00	BMS	EPA 8000C
Nitrocellulose	<13	mg/kg	13	44	100	1		11/21/2011 08:00	11/29/2011 05:42	RLD	EPA 9056M
Metals Results											
Aluminum	9710	mg/kg	0.080	0.28	0.48	2		11/21/2011 08:00	11/22/2011 11:23	NAH	EPA 6010C ^
Antimony	0.65	mg/kg	0.13	0.43	0.80	1	J	11/21/2011 08:00	11/23/2011 10:59	NAH	EPA 6010C ^
Arsenic	9.0	mg/kg	0.26	0.91	1.6	2		11/21/2011 08:00	11/22/2011 11:23	NAH	EPA 6010C ^
Barium	82.5	mg/kg	0.018	0.056	0.10	2		11/21/2011 08:00	11/22/2011 11:23	NAH	EPA 6010C ^
Beryllium	0.51	mg/kg	0.0080	0.024	0.080	2		11/21/2011 08:00	11/22/2011 11:23	NAH	EPA 6010C ^
Cadmium	0.26	mg/kg	0.0060	0.021	0.040	1		11/21/2011 08:00	11/23/2011 10:59	NAH	EPA 6010C ^
Calcium	1730	mg/kg	0.48	1.6	2.8	2		11/21/2011 08:00	11/22/2011 11:23	NAH	EPA 6010C ^
Chromium	238	mg/kg	0.046	0.16	0.28	2		11/21/2011 08:00	11/22/2011 11:23	NAH	EPA 6010C ^
Cobalt	7.5	mg/kg	0.080	0.24	0.48	2		11/21/2011 08:00	11/22/2011 11:23	NAH	EPA 6010C ^
Copper	17.7	mg/kg	0.14	0.44	0.80	2		11/21/2011 08:00	11/22/2011 11:23	NAH	EPA 6010C ^
Iron	25900	mg/kg	0.60	2.0	3.6	2		11/21/2011 08:00	11/22/2011 11:23	NAH	EPA 6010C ^
Lead	19.6	mg/kg	0.080	0.28	0.50	2		11/21/2011 08:00	11/22/2011 11:23	NAH	EPA 6010C ^
Magnesium	1730	mg/kg	0.28	0.97	1.6	2		11/21/2011 08:00	11/22/2011 11:23	NAH	EPA 6010C ^
Manganese	450	mg/kg	0.050	0.17	0.30	2		11/21/2011 08:00	11/22/2011 11:23	NAH	EPA 6010C ^
Nickel	15.1	mg/kg	0.042	0.14	0.24	2		11/21/2011 08:00	11/22/2011 11:23	NAH	EPA 6010C ^
Selenium	0.26	mg/kg	0.060	0.21	0.40	1	J	11/21/2011 08:00	11/23/2011 10:59	NAH	EPA 6010C ^
Silver	<0.017	mg/kg	0.017	0.056	0.10	1		11/21/2011 08:00	11/23/2011 10:59	NAH	EPA 6010C ^
Thallium	0.41	mg/kg	0.080	0.26	0.48	1	J	11/21/2011 08:00	11/23/2011 10:59	NAH	EPA 6010C ^
Vanadium	16.8	mg/kg	0.024	0.078	0.16	2		11/21/2011 08:00	11/22/2011 11:23	NAH	EPA 6010C ^
Zinc	270	mg/kg	0.10	0.32	0.60	2		11/21/2011 08:00	11/22/2011 11:23	NAH	EPA 6010C ^
Potassium	1510	mg/kg	11	36	66	1		11/21/2011 08:00	11/22/2011 09:12	NAH	EPA 6010C ^
Sodium	<4.0	mg/kg	4.0	13	24	1		11/21/2011 08:00	11/22/2011 09:12	NAH	EPA 6010C ^
Mercury	0.014	mg/kg	0.0021	0.0070	0.0084	1		11/21/2011 12:00	11/22/2011 10:41	GCE	EPA 7471A ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101865 Sample Description: C78SB-023M-0004-SO Sampled: 11/9/2011 1130

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results											
Aroclor-1016	<10	ug/kg	10	35	100	1		11/17/2011 13:00	11/21/2011 15:49	JJY	EPA 8082A ^
Aroclor-1221	<20	ug/kg	20	67	100	1		11/17/2011 13:00	11/21/2011 15:49	JJY	EPA 8082A ^
Aroclor-1232	<27	ug/kg	27	91	100	1		11/17/2011 13:00	11/21/2011 15:49	JJY	EPA 8082A ^
Aroclor-1242	<29	ug/kg	29	97	100	1		11/17/2011 13:00	11/21/2011 15:49	JJY	EPA 8082A ^
Aroclor-1248	<29	ug/kg	29	98	100	1		11/17/2011 13:00	11/21/2011 15:49	JJY	EPA 8082A ^
Aroclor-1254	<23	ug/kg	23	77	100	1		11/17/2011 13:00	11/21/2011 15:49	JJY	EPA 8082A ^
Aroclor-1260	<12	ug/kg	12	38	100	1		11/17/2011 13:00	11/21/2011 15:49	JJY	EPA 8082A ^
Aroclor-1262	<21	ug/kg	21	72	100	1		11/17/2011 13:00	11/21/2011 15:49	JJY	EPA 8082A ^
Aroclor-1268	<28	ug/kg	28	93	100	1		11/17/2011 13:00	11/21/2011 15:49	JJY	EPA 8082A ^
Surr: DCBP	82	% Recovery	60	125	60-125	1		11/17/2011 13:00	11/21/2011 15:49	JJY	EPA 8082A
4,4'-DDD	2.5	ug/kg	0.30	1.2	2.4	1	P	11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B ^
4,4'-DDE	3.2	ug/kg	0.30	1.1	2.4	1	P	11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B ^
4,4'-DDT	2.8	ug/kg	0.50	1.5	2.4	1	P	11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B ^
Aldrin	<0.50	ug/kg	0.50	1.7	2.4	1		11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B ^
alpha-BHC	<0.61	ug/kg	0.61	1.9	2.4	1		11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B ^
alpha-Chlordane	<0.30	ug/kg	0.30	1.1	2.4	1		11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B ^
beta-BHC	<0.61	ug/kg	0.61	2.0	2.4	1		11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B ^
Chlordane (Technical)	<4.0	ug/kg	4.0	30	61	1		11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B ^
delta-BHC	<0.30	ug/kg	0.30	1.1	2.4	1		11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B ^
Dieldrin	<0.30	ug/kg	0.30	1.2	2.4	1		11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B ^
Endosulfan I	<0.71	ug/kg	0.71	2.2	2.4	1		11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B ^
Endosulfan II	<0.30	ug/kg	0.30	1.2	2.4	1		11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B ^
Endosulfan sulfate	<0.91	ug/kg	0.91	3.1	4.0	1		11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B ^
Endrin	0.71	ug/kg	0.40	1.4	2.4	1	J P	11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B ^
Endrin aldehyde	<1.1	ug/kg	1.1	3.6	4.0	1		11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B ^
Endrin ketone	<0.81	ug/kg	0.81	2.8	4.0	1		11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B ^
gamma-Chlordane	4.7	ug/kg	0.30	1.1	2.4	1	P	11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101865 Sample Description: C78SB-023M-0004-SO Sampled: 11/9/2011 1130

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Heptachlor	<0.40	ug/kg	0.40	1.2	2.4	1		11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B ^
Heptachlor epoxide	<0.50	ug/kg	0.50	1.7	2.4	1		11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B ^
Lindane	<0.50	ug/kg	0.50	1.6	2.4	1		11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B ^
Methoxychlor	1.3	ug/kg	0.71	2.3	2.4	1	J P	11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B ^
Toxaphene	<5.0	ug/kg	5.0	30	61	1		11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B ^
SURR:2,4,5,6-CL4-m-xylene	82	% Recovery	70	125	70-125	1		11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B
SURR:Decachlorobiphenyl	84	% Recovery	55	130	55-130	1		11/17/2011 13:00	11/29/2011 15:39	JJY	EPA 8081B
Nitroguanidine	<0.060	mg/kg	0.060	0.21	0.25	1		11/22/2011 09:45	11/23/2011 11:23	red	EPA 8330
1,2-Dinitrobenzene	78	% Recovery	50	150	50-150	1		11/22/2011 09:45	11/23/2011 11:23	red	EPA 8330
1,3,5-Trinitrobenzene	<0.13	mg/kg	0.13	0.43	0.50	1		11/17/2011 14:00	11/22/2011 16:16	red	EPA 8330B
1,3-Dinitrobenzene	<0.079	mg/kg	0.079	0.26	0.40	1		11/17/2011 14:00	11/22/2011 16:16	red	EPA 8330B
2,4,6-Trinitrotoluene	<0.089	mg/kg	0.089	0.31	0.40	1		11/17/2011 14:00	11/22/2011 16:16	red	EPA 8330B
2,4-Dinitrotoluene	<0.079	mg/kg	0.079	0.25	0.50	1		11/17/2011 14:00	11/22/2011 16:16	red	EPA 8330B
2,6-Dinitrotoluene	<0.069	mg/kg	0.069	0.24	0.50	1		11/17/2011 14:00	11/22/2011 16:16	red	EPA 8330B
2-Amino-4,6-dinitrotoluene	<0.089	mg/kg	0.089	0.29	0.40	1		11/17/2011 14:00	11/22/2011 16:16	red	EPA 8330B
2-Nitrotoluene	<0.089	mg/kg	0.089	0.28	0.50	1		11/17/2011 14:00	11/22/2011 16:16	red	EPA 8330B
3-Nitrotoluene	<0.11	mg/kg	0.11	0.36	0.40	1		11/17/2011 14:00	11/22/2011 16:16	red	EPA 8330B
4-Amino-2,6-dinitrotoluene	<0.079	mg/kg	0.079	0.25	0.40	1		11/17/2011 14:00	11/22/2011 16:16	red	EPA 8330B
4-Nitrotoluene	<0.099	mg/kg	0.099	0.34	0.40	1		11/17/2011 14:00	11/22/2011 16:16	red	EPA 8330B
HMX	<0.12	mg/kg	0.12	0.39	0.40	1		11/17/2011 14:00	11/22/2011 16:16	red	EPA 8330B
Nitrobenzene	<0.099	mg/kg	0.099	0.34	0.40	1		11/17/2011 14:00	11/22/2011 16:16	red	EPA 8330B
Nitroglycerin	<0.50	mg/kg	0.50	1.8	2.0	1		11/17/2011 14:00	11/22/2011 16:16	red	EPA 8330B
PETN	<0.59	mg/kg	0.59	1.9	2.0	1		11/17/2011 14:00	11/22/2011 16:16	red	EPA 8330B
RDX	<0.14	mg/kg	0.14	0.46	0.50	1		11/17/2011 14:00	11/22/2011 16:16	red	EPA 8330B
Tetryl	<0.089	mg/kg	0.089	0.30	0.40	1		11/17/2011 14:00	11/22/2011 16:16	red	EPA 8330B
1,2-Dinitrobenzene	93	% Recovery	74	128	74-128	1		11/17/2011 14:00	11/22/2011 16:16	red	EPA 8330B
1,2,4-Trichlorobenzene	<21	ug/kg	21	69	120	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
1,2-Dichlorobenzene	<24	ug/kg	24	79	120	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101865 Sample Description: C78SB-023M-0004-SO Sampled: 11/9/2011 1130

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3-Dichlorobenzene	<20	ug/kg	20	67	120	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
1,4-Dichlorobenzene	<19	ug/kg	19	63	120	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
2,4,5-Trichlorophenol	<130	ug/kg	130	440	600	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
2,4,6-Trichlorophenol	<130	ug/kg	130	440	600	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
2,4-Dichlorophenol	<120	ug/kg	120	410	600	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
2,4-Dimethylphenol	<99	ug/kg	99	330	600	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
2,4-Dinitrophenol	<270	ug/kg	270	900	2000	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
2,4-Dinitrotoluene	<24	ug/kg	24	79	120	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
2,6-Dinitrotoluene	<24	ug/kg	24	81	120	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
2-Chloronaphthalene	<23	ug/kg	23	76	120	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
2-Chlorophenol	<340	ug/kg	340	1100	2000	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
2-Methylnaphthalene	10	ug/kg	0.22	0.73	3.0	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
2-Methylphenol	<420	ug/kg	420	1400	2000	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
2-Nitroaniline	<23	ug/kg	23	78	120	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
2-Nitrophenol	<280	ug/kg	280	940	1000	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
3 & 4-Methylphenol	<650	ug/kg	650	2200	3600	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
3,3'-Dichlorobenzidine	<150	ug/kg	150	490	500	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
3-Nitroaniline	<22	ug/kg	22	72	120	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
4,6-Dinitro-2-methylphenol	<270	ug/kg	270	900	1000	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
4-Bromophenyl-phenyl ether	<25	ug/kg	25	83	120	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
4-Chloro-3-methylphenol	<380	ug/kg	380	1300	2000	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
4-Chloroaniline	<39	ug/kg	39	130	200	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
4-Chlorophenyl-phenyl ether	<26	ug/kg	26	87	200	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
4-Nitroaniline	<30	ug/kg	30	100	120	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
4-Nitrophenol	<400	ug/kg	400	1300	2000	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Acenaphthene	<0.33	ug/kg	0.33	1.1	3.0	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Acenaphthylene	5.9	ug/kg	0.24	0.82	3.0	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Anthracene	2.1	ug/kg	0.31	1.0	3.0	1	J	11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Benzo(a)anthracene	43	ug/kg	0.32	1.1	3.0	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101865 Sample Description: C78SB-023M-0004-SO Sampled: 11/9/2011 1130

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Benzo(a)pyrene	34	ug/kg	0.28	0.92	5.0	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Benzo(b)fluoranthene	59	ug/kg	0.40	1.3	3.0	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Benzo(g,h,i)perylene	24	ug/kg	0.39	1.3	3.0	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Benzo(k)fluoranthene	18	ug/kg	0.37	1.2	3.0	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Benzoic acid	<290	ug/kg	290	980	3000	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Benzyl alcohol	<83	ug/kg	83	280	400	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Bis(2-chloroethoxy)methane	<23	ug/kg	23	76	120	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Bis(2-chloroethyl)ether	<25	ug/kg	25	84	120	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Bis(2-chloroisopropyl)ether	<30	ug/kg	30	99	120	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Butylbenzylphthalate	<73	ug/kg	73	240	400	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Carbazole	<28	ug/kg	28	94	120	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Chrysene	37	ug/kg	0.35	1.2	3.0	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Di-n-butylphthalate	91	ug/kg	79	260	400	1	J	11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Di-n-octylphthalate	<59	ug/kg	59	200	200	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Dibenzo(a,h)anthracene	6.3	ug/kg	0.35	1.2	3.0	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Dibenzofuran	<24	ug/kg	24	81	120	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Diethylphthalate	<64	ug/kg	64	220	400	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Dimethylphthalate	<63	ug/kg	63	210	400	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Fluoranthene	59	ug/kg	0.36	1.2	3.0	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Fluorene	0.70	ug/kg	0.36	1.2	3.0	1	J	11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Hexachlorobenzene	<28	ug/kg	28	94	120	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Hexachlorobutadiene	<62	ug/kg	62	210	400	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Hexachlorocyclopentadiene	<52	ug/kg	52	170	200	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Hexachloroethane	<33	ug/kg	33	110	120	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Indeno(1,2,3-cd)pyrene	27	ug/kg	0.36	1.2	3.0	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Isophorone	<50	ug/kg	50	170	200	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
N-Nitroso-di-n-propylamine	<70	ug/kg	70	230	400	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
N-Nitrosodiphenylamine & Diphn	<50	ug/kg	50	160	400	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Naphthalene	11	ug/kg	0.27	0.89	3.0	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101865 Sample Description: C78SB-023M-0004-SO Sampled: 11/9/2011 1130

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Nitrobenzene	<59	ug/kg	59	200	200	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Pentachlorophenol	<240	ug/kg	240	800	1000	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Phenanthrene	21	ug/kg	0.45	1.5	3.0	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Phenol	<160	ug/kg	160	530	600	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Pyrene	47	ug/kg	0.41	1.4	1.5	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C ^
Surr: 2,4,6-Tribromophenol	28	% Recovery	35	125	35-125	1	S	11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C
Surr: 2-Fluorobiphenyl	52	% Recovery	45	105	45-105	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C
Surr: 2-Fluorophenol	34	% Recovery	35	105	35-105	1	S	11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C
Surr: Nitrobenzene-d5	58	% Recovery	35	100	35-100	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C
Surr: o-terphenyl-d14	64	% Recovery	30	125	30-125	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C
Surr: Phenol-d5	49	% Recovery	40	100	40-100	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C
Surr: Terphenyl-d14	59	% Recovery	30	125	30-125	1		11/21/2011 13:30	11/28/2011 17:47	RPN	EPA 8270C
Sub Lab Results											
Asbestos	ATTACHED					1			12/01/2011 00:00	PML	

CT LAB#: 101866 Sample Description: C78SB-023V-0004-SO Sampled: 11/9/2011 1130

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	86.2	%				1			11/17/2011 14:00	BMS	EPA 8000C
Organic Results											
1,1,1-Trichloroethane	<9.8	ug/kg	9.8	31	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
1,1,2,2-Tetrachloroethane	<5.9	ug/kg	5.9	21	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
1,1,2-Trichloroethane	<7.9	ug/kg	7.9	26	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
1,1-Dichloroethane	<11	ug/kg	11	36	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
1,1-Dichloroethene	<16	ug/kg	16	51	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
1,2-Dibromoethane	<9.8	ug/kg	9.8	33	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101866 Sample Description: C78SB-023V-0004-SO Sampled: 11/9/2011 1130

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dichloroethane	<12	ug/kg	12	38	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
1,2-Dichloropropane	<6.9	ug/kg	6.9	22	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
2-Butanone	<98	ug/kg	98	330	490	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
2-Hexanone	<67	ug/kg	67	230	490	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
4-Methyl-2-pentanone	<81	ug/kg	81	270	490	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
Acetone	100	ug/kg	62	210	490	1	J B	11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
Benzene	<4.9	ug/kg	4.9	18	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
Bromochloromethane	<7.9	ug/kg	7.9	26	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
Bromodichloromethane	<8.8	ug/kg	8.8	29	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
Bromoform	<5.9	ug/kg	5.9	21	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
Bromomethane	<29	ug/kg	29	98	98	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
Carbon disulfide	<15	ug/kg	15	50	98	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
Carbon tetrachloride	<11	ug/kg	11	36	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
Chlorobenzene	<7.9	ug/kg	7.9	25	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
Chloroethane	<19	ug/kg	19	64	98	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
Chloroform	<8.8	ug/kg	8.8	31	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
Chloromethane	<25	ug/kg	25	82	98	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
cis-1,2-Dichloroethene	<9.8	ug/kg	9.8	33	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
cis-1,3-Dichloropropene	<9.8	ug/kg	9.8	31	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
Dibromochloromethane	<7.9	ug/kg	7.9	26	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
Ethylbenzene	<7.9	ug/kg	7.9	25	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
m & p-Xylene	<18	ug/kg	18	59	98	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
Methylene chloride	<39	ug/kg	39	130	98	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
o-Xylene	<7.9	ug/kg	7.9	25	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
Styrene	<5.9	ug/kg	5.9	20	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
Tetrachloroethene	<7.9	ug/kg	7.9	27	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
Toluene	<6.9	ug/kg	6.9	25	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
trans-1,2-Dichloroethene	<11	ug/kg	11	37	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
trans-1,3-Dichloropropene	<6.9	ug/kg	6.9	23	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101866 Sample Description: C78SB-023V-0004-SO Sampled: 11/9/2011 1130

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Trichloroethene	<9.8	ug/kg	9.8	31	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
Trichlorofluoromethane	<13	ug/kg	13	41	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
Vinyl chloride	<14	ug/kg	14	46	49	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B ^
1,2 Dichloroethane-d4	101	% Recovery	80	117	80-117	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B
Bromofluorobenzene	103	% Recovery	85	120	85-120	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B
d8-Toluene	99	% Recovery	85	115	85-115	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B
Dibromofluoromethane	97	% Recovery	82	118	82-118	1		11/16/2011 12:30	11/17/2011 14:37	APG	EPA 8260B

CT LAB#: 101867 Sample Description: C78SB-023M-0005-SO Sampled: 11/9/2011 1210

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	99.7	%				1			11/17/2011 14:00	BMS	EPA 8000C
Nitrocellulose	<13	mg/kg	13	44	100	1		11/21/2011 08:00	11/29/2011 06:00	RLD	EPA 9056M
Metals Results											
Aluminum	6220	mg/kg	0.080	0.28	0.48	2		11/21/2011 08:00	11/22/2011 11:30	NAH	EPA 6010C ^
Antimony	0.55	mg/kg	0.13	0.43	0.80	1	J	11/21/2011 08:00	11/23/2011 11:06	NAH	EPA 6010C ^
Arsenic	5.6	mg/kg	0.26	0.90	1.6	2		11/21/2011 08:00	11/22/2011 11:30	NAH	EPA 6010C ^
Barium	49.0	mg/kg	0.018	0.056	0.10	2		11/21/2011 08:00	11/22/2011 11:30	NAH	EPA 6010C ^
Beryllium	0.38	mg/kg	0.0080	0.024	0.080	2		11/21/2011 08:00	11/22/2011 11:30	NAH	EPA 6010C ^
Cadmium	0.026	mg/kg	0.0060	0.021	0.040	1	J	11/21/2011 08:00	11/23/2011 11:06	NAH	EPA 6010C ^
Calcium	9780	mg/kg	0.48	1.6	2.8	2		11/21/2011 08:00	11/22/2011 11:30	NAH	EPA 6010C ^
Chromium	291	mg/kg	0.046	0.16	0.28	2		11/21/2011 08:00	11/22/2011 11:30	NAH	EPA 6010C ^
Cobalt	5.1	mg/kg	0.080	0.24	0.48	2		11/21/2011 08:00	11/22/2011 11:30	NAH	EPA 6010C ^
Copper	10.3	mg/kg	0.14	0.44	0.80	2		11/21/2011 08:00	11/22/2011 11:30	NAH	EPA 6010C ^
Iron	20200	mg/kg	0.60	2.0	3.6	2		11/21/2011 08:00	11/22/2011 11:30	NAH	EPA 6010C ^
Lead	12.5	mg/kg	0.080	0.28	0.50	2		11/21/2011 08:00	11/22/2011 11:30	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101867 Sample Description: C78SB-023M-0005-SO Sampled: 11/9/2011 1210

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Magnesium	1080	mg/kg	0.28	0.96	1.6	2		11/21/2011 08:00	11/22/2011 11:30	NAH	EPA 6010C ^
Manganese	361	mg/kg	0.050	0.17	0.30	2		11/21/2011 08:00	11/22/2011 11:30	NAH	EPA 6010C ^
Nickel	10.8	mg/kg	0.042	0.14	0.24	2		11/21/2011 08:00	11/22/2011 11:30	NAH	EPA 6010C ^
Selenium	0.34	mg/kg	0.060	0.21	0.40	1	J	11/21/2011 08:00	11/23/2011 11:06	NAH	EPA 6010C ^
Silver	<0.017	mg/kg	0.017	0.056	0.10	1		11/21/2011 08:00	11/23/2011 11:06	NAH	EPA 6010C ^
Thallium	0.29	mg/kg	0.080	0.26	0.48	1	J	11/21/2011 08:00	11/23/2011 11:06	NAH	EPA 6010C ^
Vanadium	11.2	mg/kg	0.024	0.078	0.16	2		11/21/2011 08:00	11/22/2011 11:30	NAH	EPA 6010C ^
Zinc	44.3	mg/kg	0.10	0.32	0.60	2		11/21/2011 08:00	11/22/2011 11:30	NAH	EPA 6010C ^
Potassium	1120	mg/kg	11	36	66	1		11/21/2011 08:00	11/22/2011 09:14	NAH	EPA 6010C ^
Sodium	<4.0	mg/kg	4.0	13	24	1		11/21/2011 08:00	11/22/2011 09:14	NAH	EPA 6010C ^
Mercury	0.0046	mg/kg	0.0021	0.0070	0.0083	1	J	11/21/2011 12:00	11/22/2011 10:43	GCE	EPA 7471A ^
Organic Results											
Aroclor-1016	<10	ug/kg	10	35	100	1		11/17/2011 13:00	11/21/2011 16:25	JJY	EPA 8082A ^
Aroclor-1221	<20	ug/kg	20	66	100	1		11/17/2011 13:00	11/21/2011 16:25	JJY	EPA 8082A ^
Aroclor-1232	<27	ug/kg	27	91	100	1		11/17/2011 13:00	11/21/2011 16:25	JJY	EPA 8082A ^
Aroclor-1242	<29	ug/kg	29	97	100	1		11/17/2011 13:00	11/21/2011 16:25	JJY	EPA 8082A ^
Aroclor-1248	<29	ug/kg	29	98	100	1		11/17/2011 13:00	11/21/2011 16:25	JJY	EPA 8082A ^
Aroclor-1254	<23	ug/kg	23	76	100	1		11/17/2011 13:00	11/21/2011 16:25	JJY	EPA 8082A ^
Aroclor-1260	<12	ug/kg	12	38	100	1		11/17/2011 13:00	11/21/2011 16:25	JJY	EPA 8082A ^
Aroclor-1262	<21	ug/kg	21	71	100	1		11/17/2011 13:00	11/21/2011 16:25	JJY	EPA 8082A ^
Aroclor-1268	<28	ug/kg	28	93	100	1		11/17/2011 13:00	11/21/2011 16:25	JJY	EPA 8082A ^
Surr: DCBP	73	% Recovery	60	125	60-125	1		11/17/2011 13:00	11/21/2011 16:25	JJY	EPA 8082A
4,4'-DDD	2.6	ug/kg	0.30	1.2	2.4	1	P	11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B ^
4,4'-DDE	0.91	ug/kg	0.30	1.1	2.4	1	J	11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B ^
4,4'-DDT	4.9	ug/kg	0.50	1.5	2.4	1		11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B ^
Aldrin	<0.50	ug/kg	0.50	1.7	2.4	1		11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B ^
alpha-BHC	<0.60	ug/kg	0.60	1.9	2.4	1		11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B ^
alpha-Chlordane	<0.30	ug/kg	0.30	1.1	2.4	1		11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101867 Sample Description: C78SB-023M-0005-SO Sampled: 11/9/2011 1210

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
beta-BHC	<0.60	ug/kg	0.60	2.0	2.4	1		11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B ^
Chlordane (Technical)	<4.0	ug/kg	4.0	30	60	1		11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B ^
delta-BHC	0.50	ug/kg	0.30	1.1	2.4	1	J P	11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B ^
Dieldrin	<0.30	ug/kg	0.30	1.2	2.4	1		11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B ^
Endosulfan I	<0.70	ug/kg	0.70	2.2	2.4	1		11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B ^
Endosulfan II	<0.30	ug/kg	0.30	1.2	2.4	1		11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B ^
Endosulfan sulfate	<0.91	ug/kg	0.91	3.1	4.0	1		11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B ^
Endrin	<0.40	ug/kg	0.40	1.4	2.4	1		11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B ^
Endrin aldehyde	<1.1	ug/kg	1.1	3.6	4.0	1		11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B ^
Endrin ketone	<0.80	ug/kg	0.80	2.8	4.0	1		11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B ^
gamma-Chlordane	<0.30	ug/kg	0.30	1.1	2.4	1		11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B ^
Heptachlor	<0.40	ug/kg	0.40	1.2	2.4	1		11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B ^
Heptachlor epoxide	<0.50	ug/kg	0.50	1.7	2.4	1		11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B ^
Lindane	<0.50	ug/kg	0.50	1.6	2.4	1		11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B ^
Methoxychlor	4.9	ug/kg	0.70	2.3	2.4	1	P	11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B ^
Toxaphene	<5.0	ug/kg	5.0	30	60	1		11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B ^
SURR:2,4,5,6-CL4-m-xylene	72	% Recovery	70	125	70-125	1		11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B
SURR:Decachlorobiphenyl	67	% Recovery	55	130	55-130	1		11/17/2011 13:00	11/30/2011 18:34	JJY	EPA 8081B
Nitroguanidine	<0.060	mg/kg	0.060	0.21	0.25	1		11/22/2011 09:45	11/23/2011 11:31	red	EPA 8330
1,2-Dinitrobenzene	81	% Recovery	50	150	50-150	1		11/22/2011 09:45	11/23/2011 11:31	red	EPA 8330
1,3,5-Trinitrobenzene	<0.13	mg/kg	0.13	0.43	0.50	1		11/17/2011 14:00	11/22/2011 16:34	red	EPA 8330B
1,3-Dinitrobenzene	<0.079	mg/kg	0.079	0.26	0.40	1		11/17/2011 14:00	11/22/2011 16:34	red	EPA 8330B
2,4,6-Trinitrotoluene	<0.089	mg/kg	0.089	0.31	0.40	1		11/17/2011 14:00	11/22/2011 16:34	red	EPA 8330B
2,4-Dinitrotoluene	<0.079	mg/kg	0.079	0.25	0.50	1		11/17/2011 14:00	11/22/2011 16:34	red	EPA 8330B
2,6-Dinitrotoluene	<0.069	mg/kg	0.069	0.24	0.50	1		11/17/2011 14:00	11/22/2011 16:34	red	EPA 8330B
2-Amino-4,6-dinitrotoluene	<0.089	mg/kg	0.089	0.29	0.40	1		11/17/2011 14:00	11/22/2011 16:34	red	EPA 8330B
2-Nitrotoluene	<0.089	mg/kg	0.089	0.28	0.50	1		11/17/2011 14:00	11/22/2011 16:34	red	EPA 8330B
3-Nitrotoluene	<0.11	mg/kg	0.11	0.36	0.40	1		11/17/2011 14:00	11/22/2011 16:34	red	EPA 8330B

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101867 Sample Description: C78SB-023M-0005-SO Sampled: 11/9/2011 1210

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Amino-2,6-dinitrotoluene	<0.079	mg/kg	0.079	0.25	0.40	1		11/17/2011 14:00	11/22/2011 16:34	red	EPA 8330B
4-Nitrotoluene	<0.099	mg/kg	0.099	0.34	0.40	1		11/17/2011 14:00	11/22/2011 16:34	red	EPA 8330B
HMX	<0.12	mg/kg	0.12	0.39	0.40	1		11/17/2011 14:00	11/22/2011 16:34	red	EPA 8330B
Nitrobenzene	<0.099	mg/kg	0.099	0.34	0.40	1		11/17/2011 14:00	11/22/2011 16:34	red	EPA 8330B
Nitroglycerin	<0.50	mg/kg	0.50	1.8	2.0	1		11/17/2011 14:00	11/22/2011 16:34	red	EPA 8330B
PETN	<0.59	mg/kg	0.59	1.9	2.0	1		11/17/2011 14:00	11/22/2011 16:34	red	EPA 8330B
RDX	<0.14	mg/kg	0.14	0.46	0.50	1		11/17/2011 14:00	11/22/2011 16:34	red	EPA 8330B
Tetryl	<0.089	mg/kg	0.089	0.30	0.40	1		11/17/2011 14:00	11/22/2011 16:34	red	EPA 8330B
1,2-Dinitrobenzene	96	% Recovery	74	128	74-128	1		11/17/2011 14:00	11/22/2011 16:34	red	EPA 8330B
1,2,4-Trichlorobenzene	<21	ug/kg	21	69	120	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
1,2-Dichlorobenzene	<24	ug/kg	24	79	120	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
1,3-Dichlorobenzene	<20	ug/kg	20	67	120	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
1,4-Dichlorobenzene	<19	ug/kg	19	63	120	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
2,4,5-Trichlorophenol	<130	ug/kg	130	440	600	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
2,4,6-Trichlorophenol	<130	ug/kg	130	440	600	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
2,4-Dichlorophenol	<120	ug/kg	120	410	600	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
2,4-Dimethylphenol	<99	ug/kg	99	330	600	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
2,4-Dinitrophenol	<270	ug/kg	270	900	2000	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
2,4-Dinitrotoluene	<24	ug/kg	24	79	120	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
2,6-Dinitrotoluene	<24	ug/kg	24	81	120	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
2-Chloronaphthalene	<23	ug/kg	23	76	120	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
2-Chlorophenol	<340	ug/kg	340	1100	2000	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
2-Methylnaphthalene	21	ug/kg	0.22	0.73	3.0	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
2-Methylphenol	<420	ug/kg	420	1400	2000	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
2-Nitroaniline	<23	ug/kg	23	78	120	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
2-Nitrophenol	<280	ug/kg	280	940	1000	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
3 & 4-Methylphenol	<650	ug/kg	650	2200	3600	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
3,3'-Dichlorobenzidine	<150	ug/kg	150	490	500	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
3-Nitroaniline	<22	ug/kg	22	72	120	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101867 Sample Description: C78SB-023M-0005-SO Sampled: 11/9/2011 1210

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4,6-Dinitro-2-methylphenol	<270	ug/kg	270	900	1000	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
4-Bromophenyl-phenyl ether	<25	ug/kg	25	83	120	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
4-Chloro-3-methylphenol	<380	ug/kg	380	1300	2000	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
4-Chloroaniline	<39	ug/kg	39	130	200	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
4-Chlorophenyl-phenyl ether	<26	ug/kg	26	87	200	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
4-Nitroaniline	<30	ug/kg	30	100	120	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
4-Nitrophenol	<400	ug/kg	400	1300	2000	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Acenaphthene	51	ug/kg	0.33	1.1	3.0	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Acenaphthylene	11	ug/kg	0.24	0.82	3.0	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Anthracene	220	ug/kg	0.31	1.0	3.0	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Benzo(a)anthracene	780	ug/kg	0.32	1.1	3.0	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Benzo(a)pyrene	560	ug/kg	0.28	0.92	5.0	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Benzo(b)fluoranthene	960	ug/kg	0.40	1.3	3.0	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Benzo(g,h,i)perylene	240	ug/kg	0.39	1.3	3.0	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Benzo(k)fluoranthene	310	ug/kg	0.37	1.2	3.0	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Benzoic acid	<290	ug/kg	290	980	3000	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Benzyl alcohol	<83	ug/kg	83	280	400	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Bis(2-chloroethoxy)methane	<23	ug/kg	23	76	120	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Bis(2-chloroethyl)ether	<25	ug/kg	25	84	120	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Bis(2-chloroisopropyl)ether	<30	ug/kg	30	99	120	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Butylbenzylphthalate	<73	ug/kg	73	240	400	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Carbazole	220	ug/kg	28	94	120	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Chrysene	740	ug/kg	0.35	1.2	3.0	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Di-n-butylphthalate	<79	ug/kg	79	260	400	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Di-n-octylphthalate	<59	ug/kg	59	200	200	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Dibenzo(a,h)anthracene	89	ug/kg	0.35	1.2	3.0	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Dibenzofuran	57	ug/kg	24	81	120	1	J	11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Diethylphthalate	<64	ug/kg	64	220	400	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Dimethylphthalate	<63	ug/kg	63	210	400	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101867 Sample Description: C78SB-023M-0005-SO Sampled: 11/9/2011 1210

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Fluoranthene	1800	ug/kg	0.36	1.2	3.0	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Fluorene	88	ug/kg	0.36	1.2	3.0	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Hexachlorobenzene	<28	ug/kg	28	94	120	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Hexachlorobutadiene	<62	ug/kg	62	210	400	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Hexachlorocyclopentadiene	<52	ug/kg	52	170	200	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Hexachloroethane	<33	ug/kg	33	110	120	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Indeno(1,2,3-cd)pyrene	390	ug/kg	0.36	1.2	3.0	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Isophorone	<50	ug/kg	50	170	200	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
N-Nitroso-di-n-propylamine	<70	ug/kg	70	230	400	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
N-Nitrosodiphenylamine & Diphn	<50	ug/kg	50	160	400	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Naphthalene	22	ug/kg	0.27	0.89	3.0	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Nitrobenzene	<59	ug/kg	59	200	200	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Pentachlorophenol	<240	ug/kg	240	800	1000	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Phenanthrene	1100	ug/kg	0.45	1.5	3.0	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Phenol	<160	ug/kg	160	530	600	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Pyrene	1300	ug/kg	0.41	1.4	1.5	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C ^
Surr: 2,4,6-Tribromophenol	27	% Recovery	35	125	35-125	1	S	11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C
Surr: 2-Fluorobiphenyl	50	% Recovery	45	105	45-105	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C
Surr: 2-Fluorophenol	32	% Recovery	35	105	35-105	1	S	11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C
Surr: Nitrobenzene-d5	55	% Recovery	35	100	35-100	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C
Surr: o-terphenyl-d14	63	% Recovery	30	125	30-125	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C
Surr: Phenol-d5	45	% Recovery	40	100	40-100	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C
Surr: Terphenyl-d14	57	% Recovery	30	125	30-125	1		11/21/2011 13:30	11/28/2011 19:40	RPN	EPA 8270C

Sub Lab Results

Asbestos	ATTACHED					1			12/01/2011 00:00	PML	

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101868 Sample Description: C78SB-023V-0005-SO Sampled: 11/9/2011 1210

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	88.3	%				1			11/17/2011 14:00	BMS	EPA 8000C
Organic Results											
1,1,1-Trichloroethane	<11	ug/kg	11	36	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
1,1,2,2-Tetrachloroethane	<6.8	ug/kg	6.8	24	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
1,1,2-Trichloroethane	<9.1	ug/kg	9.1	30	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
1,1-Dichloroethane	<13	ug/kg	13	42	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
1,1-Dichloroethene	<18	ug/kg	18	59	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
1,2-Dibromoethane	<11	ug/kg	11	39	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
1,2-Dichloroethane	<14	ug/kg	14	44	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
1,2-Dichloropropane	<8.0	ug/kg	8.0	25	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
2-Butanone	<110	ug/kg	110	390	570	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
2-Hexanone	<77	ug/kg	77	260	570	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
4-Methyl-2-pentanone	<93	ug/kg	93	310	570	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
Acetone	140	ug/kg	72	240	570	1	J B	11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
Benzene	<5.7	ug/kg	5.7	20	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
Bromochloromethane	<9.1	ug/kg	9.1	30	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
Bromodichloromethane	<10	ug/kg	10	34	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
Bromoform	<6.8	ug/kg	6.8	24	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
Bromomethane	<34	ug/kg	34	110	110	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
Carbon disulfide	<17	ug/kg	17	58	110	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
Carbon tetrachloride	<13	ug/kg	13	42	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
Chlorobenzene	<9.1	ug/kg	9.1	28	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
Chloroethane	<22	ug/kg	22	74	110	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
Chloroform	<10	ug/kg	10	36	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
Chloromethane	<28	ug/kg	28	96	110	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
cis-1,2-Dichloroethene	<11	ug/kg	11	39	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
cis-1,3-Dichloropropene	<11	ug/kg	11	36	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101868 Sample Description: C78SB-023V-0005-SO Sampled: 11/9/2011 1210

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromochloromethane	<9.1	ug/kg	9.1	30	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
Ethylbenzene	<9.1	ug/kg	9.1	28	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
m & p-Xylene	<20	ug/kg	20	68	110	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
Methylene chloride	<46	ug/kg	46	150	110	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
o-Xylene	<9.1	ug/kg	9.1	28	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
Styrene	<6.8	ug/kg	6.8	23	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
Tetrachloroethene	<9.1	ug/kg	9.1	31	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
Toluene	<8.0	ug/kg	8.0	28	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
trans-1,2-Dichloroethene	<13	ug/kg	13	43	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
trans-1,3-Dichloropropene	<8.0	ug/kg	8.0	26	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
Trichloroethene	<11	ug/kg	11	36	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
Trichlorofluoromethane	<15	ug/kg	15	48	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
Vinyl chloride	<16	ug/kg	16	53	57	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B ^
1,2 Dichloroethane-d4	101	% Recovery	80	117	80-117	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B
Bromofluorobenzene	101	% Recovery	85	120	85-120	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B
d8-Toluene	100	% Recovery	85	115	85-115	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B
Dibromofluoromethane	99	% Recovery	82	118	82-118	1		11/16/2011 12:30	11/17/2011 15:15	APG	EPA 8260B

CT LAB#: 101869 Sample Description: C78SB-023M-0006-SO Sampled: 11/9/2011 1235

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	99.2	%				1			11/17/2011 14:00	BMS	EPA 8000C
Nitrocellulose	<13	mg/kg	13	44	100	1		11/21/2011 08:00	11/29/2011 06:18	RLD	EPA 9056M
Metals Results											
Aluminum	10700	mg/kg	0.081	0.28	0.48	2		11/21/2011 08:00	11/22/2011 11:37	NAH	EPA 6010C ^
Antimony	0.49	mg/kg	0.13	0.43	0.81	1	J	11/21/2011 08:00	11/23/2011 11:13	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101869 Sample Description: C78SB-023M-0006-SO Sampled: 11/9/2011 1235

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Arsenic	9.6	mg/kg	0.26	0.91	1.6	2		11/21/2011 08:00	11/22/2011 11:37	NAH	EPA 6010C ^
Barium	76.1	mg/kg	0.018	0.056	0.10	2		11/21/2011 08:00	11/22/2011 11:37	NAH	EPA 6010C ^
Beryllium	0.55	mg/kg	0.0081	0.024	0.081	2		11/21/2011 08:00	11/22/2011 11:37	NAH	EPA 6010C ^
Cadmium	0.16	mg/kg	0.0060	0.021	0.040	1		11/21/2011 08:00	11/23/2011 11:13	NAH	EPA 6010C ^
Calcium	10200	mg/kg	0.48	1.6	2.8	2		11/21/2011 08:00	11/22/2011 11:37	NAH	EPA 6010C ^
Chromium	165	mg/kg	0.046	0.16	0.28	2		11/21/2011 08:00	11/22/2011 11:37	NAH	EPA 6010C ^
Cobalt	8.0	mg/kg	0.081	0.24	0.48	2		11/21/2011 08:00	11/22/2011 11:37	NAH	EPA 6010C ^
Copper	14.5	mg/kg	0.14	0.44	0.81	2		11/21/2011 08:00	11/22/2011 11:37	NAH	EPA 6010C ^
Iron	24300	mg/kg	0.60	2.0	3.6	2		11/21/2011 08:00	11/22/2011 11:37	NAH	EPA 6010C ^
Lead	16.8	mg/kg	0.081	0.28	0.50	2		11/21/2011 08:00	11/22/2011 11:37	NAH	EPA 6010C ^
Magnesium	2990	mg/kg	0.28	0.97	1.6	2		11/21/2011 08:00	11/22/2011 11:37	NAH	EPA 6010C ^
Manganese	509	mg/kg	0.050	0.17	0.30	2		11/21/2011 08:00	11/22/2011 11:37	NAH	EPA 6010C ^
Nickel	16.1	mg/kg	0.042	0.14	0.24	2		11/21/2011 08:00	11/22/2011 11:37	NAH	EPA 6010C ^
Selenium	0.89	mg/kg	0.12	0.42	0.81	2		11/21/2011 08:00	11/22/2011 11:37	NAH	EPA 6010C ^
Silver	<0.017	mg/kg	0.017	0.056	0.10	1		11/21/2011 08:00	11/23/2011 11:13	NAH	EPA 6010C ^
Thallium	0.37	mg/kg	0.081	0.26	0.48	1	J	11/21/2011 08:00	11/23/2011 11:13	NAH	EPA 6010C ^
Vanadium	17.1	mg/kg	0.024	0.079	0.16	2		11/21/2011 08:00	11/22/2011 11:37	NAH	EPA 6010C ^
Zinc	73.1	mg/kg	0.10	0.32	0.60	2		11/21/2011 08:00	11/22/2011 11:37	NAH	EPA 6010C ^
Potassium	1780	mg/kg	11	36	67	1		11/21/2011 08:00	11/22/2011 09:17	NAH	EPA 6010C ^
Sodium	<4.0	mg/kg	4.0	13	24	1		11/21/2011 08:00	11/22/2011 09:17	NAH	EPA 6010C ^
Mercury	0.014	mg/kg	0.0021	0.0071	0.0084	1		11/21/2011 12:00	11/22/2011 10:45	GCE	EPA 7471A ^
Organic Results											
Aroclor-1016	<10	ug/kg	10	35	100	1		11/17/2011 13:00	11/21/2011 16:42	JJY	EPA 8082A ^
Aroclor-1221	<20	ug/kg	20	67	100	1		11/17/2011 13:00	11/21/2011 16:42	JJY	EPA 8082A ^
Aroclor-1232	<27	ug/kg	27	91	100	1		11/17/2011 13:00	11/21/2011 16:42	JJY	EPA 8082A ^
Aroclor-1242	<29	ug/kg	29	97	100	1		11/17/2011 13:00	11/21/2011 16:42	JJY	EPA 8082A ^
Aroclor-1248	<29	ug/kg	29	98	100	1		11/17/2011 13:00	11/21/2011 16:42	JJY	EPA 8082A ^
Aroclor-1254	<23	ug/kg	23	77	100	1		11/17/2011 13:00	11/21/2011 16:42	JJY	EPA 8082A ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101869 Sample Description: C78SB-023M-0006-SO Sampled: 11/9/2011 1235

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Aroclor-1260	<12	ug/kg	12	38	100	1		11/17/2011 13:00	11/21/2011 16:42	JJY	EPA 8082A ^
Aroclor-1262	<21	ug/kg	21	72	100	1		11/17/2011 13:00	11/21/2011 16:42	JJY	EPA 8082A ^
Aroclor-1268	<28	ug/kg	28	93	100	1		11/17/2011 13:00	11/21/2011 16:42	JJY	EPA 8082A ^
Surr: DCBP	74	% Recovery	60	125	60-125	1		11/17/2011 13:00	11/21/2011 16:42	JJY	EPA 8082A
4,4'-DDD	<0.30	ug/kg	0.30	1.2	2.4	1		11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B ^
4,4'-DDE	3.0	ug/kg	0.30	1.1	2.4	1	P	11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B ^
4,4'-DDT	4.2	ug/kg	0.50	1.5	2.4	1	P	11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B ^
Aldrin	<0.50	ug/kg	0.50	1.7	2.4	1		11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B ^
alpha-BHC	<0.61	ug/kg	0.61	1.9	2.4	1		11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B ^
alpha-Chlordane	<0.30	ug/kg	0.30	1.1	2.4	1		11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B ^
beta-BHC	<0.61	ug/kg	0.61	2.0	2.4	1		11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B ^
Chlordane (Technical)	<4.0	ug/kg	4.0	30	61	1		11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B ^
delta-BHC	<0.30	ug/kg	0.30	1.1	2.4	1		11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B ^
Dieldrin	<0.30	ug/kg	0.30	1.2	2.4	1		11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B ^
Endosulfan I	<0.71	ug/kg	0.71	2.2	2.4	1		11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B ^
Endosulfan II	<0.30	ug/kg	0.30	1.2	2.4	1		11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B ^
Endosulfan sulfate	<0.91	ug/kg	0.91	3.1	4.0	1		11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B ^
Endrin	1.3	ug/kg	0.40	1.4	2.4	1	J P	11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B ^
Endrin aldehyde	<1.1	ug/kg	1.1	3.6	4.0	1		11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B ^
Endrin ketone	<0.81	ug/kg	0.81	2.8	4.0	1		11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B ^
gamma-Chlordane	3.5	ug/kg	0.30	1.1	2.4	1	P	11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B ^
Heptachlor	<0.40	ug/kg	0.40	1.2	2.4	1		11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B ^
Heptachlor epoxide	<0.50	ug/kg	0.50	1.7	2.4	1		11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B ^
Lindane	<0.50	ug/kg	0.50	1.6	2.4	1		11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B ^
Methoxychlor	<0.71	ug/kg	0.71	2.3	2.4	1		11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B ^
Toxaphene	<5.0	ug/kg	5.0	30	61	1		11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B ^
SURR:2,4,5,6-CL4-m-xylene	76	% Recovery	70	125	70-125	1		11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B
SURR:Decachlorobiphenyl	79	% Recovery	55	130	55-130	1		11/17/2011 13:00	11/29/2011 17:48	JJY	EPA 8081B

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101869 Sample Description: C78SB-023M-0006-SO Sampled: 11/9/2011 1235

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Nitroguanidine	<0.061	mg/kg	0.061	0.21	0.25	1		11/22/2011 09:45	11/23/2011 11:39	red	EPA 8330
1,2-Dinitrobenzene	73	% Recovery	50	150	50-150	1		11/22/2011 09:45	11/23/2011 11:39	red	EPA 8330
1,3,5-Trinitrobenzene	<0.13	mg/kg	0.13	0.43	0.50	1		11/17/2011 14:00	11/22/2011 16:53	red	EPA 8330B
1,3-Dinitrobenzene	<0.079	mg/kg	0.079	0.26	0.40	1		11/17/2011 14:00	11/22/2011 16:53	red	EPA 8330B
2,4,6-Trinitrotoluene	<0.089	mg/kg	0.089	0.31	0.40	1		11/17/2011 14:00	11/22/2011 16:53	red	EPA 8330B
2,4-Dinitrotoluene	<0.079	mg/kg	0.079	0.25	0.50	1		11/17/2011 14:00	11/22/2011 16:53	red	EPA 8330B
2,6-Dinitrotoluene	<0.069	mg/kg	0.069	0.24	0.50	1		11/17/2011 14:00	11/22/2011 16:53	red	EPA 8330B
2-Amino-4,6-dinitrotoluene	<0.089	mg/kg	0.089	0.29	0.40	1		11/17/2011 14:00	11/22/2011 16:53	red	EPA 8330B
2-Nitrotoluene	<0.089	mg/kg	0.089	0.28	0.50	1		11/17/2011 14:00	11/22/2011 16:53	red	EPA 8330B
3-Nitrotoluene	<0.11	mg/kg	0.11	0.36	0.40	1		11/17/2011 14:00	11/22/2011 16:53	red	EPA 8330B
4-Amino-2,6-dinitrotoluene	<0.079	mg/kg	0.079	0.25	0.40	1		11/17/2011 14:00	11/22/2011 16:53	red	EPA 8330B
4-Nitrotoluene	<0.099	mg/kg	0.099	0.34	0.40	1		11/17/2011 14:00	11/22/2011 16:53	red	EPA 8330B
HMX	<0.12	mg/kg	0.12	0.39	0.40	1		11/17/2011 14:00	11/22/2011 16:53	red	EPA 8330B
Nitrobenzene	<0.099	mg/kg	0.099	0.34	0.40	1		11/17/2011 14:00	11/22/2011 16:53	red	EPA 8330B
Nitroglycerin	<0.50	mg/kg	0.50	1.8	2.0	1		11/17/2011 14:00	11/22/2011 16:53	red	EPA 8330B
PETN	<0.60	mg/kg	0.60	1.9	2.0	1		11/17/2011 14:00	11/22/2011 16:53	red	EPA 8330B
RDX	<0.14	mg/kg	0.14	0.46	0.50	1		11/17/2011 14:00	11/22/2011 16:53	red	EPA 8330B
Tetryl	<0.089	mg/kg	0.089	0.30	0.40	1		11/17/2011 14:00	11/22/2011 16:53	red	EPA 8330B
1,2-Dinitrobenzene	93	% Recovery	74	128	74-128	1		11/17/2011 14:00	11/22/2011 16:53	red	EPA 8330B
1,2,4-Trichlorobenzene	<21	ug/kg	21	69	120	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
1,2-Dichlorobenzene	<24	ug/kg	24	79	120	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
1,3-Dichlorobenzene	<20	ug/kg	20	67	120	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
1,4-Dichlorobenzene	<19	ug/kg	19	63	120	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
2,4,5-Trichlorophenol	<130	ug/kg	130	440	600	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
2,4,6-Trichlorophenol	<130	ug/kg	130	440	600	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
2,4-Dichlorophenol	<120	ug/kg	120	410	600	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
2,4-Dimethylphenol	<99	ug/kg	99	330	600	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
2,4-Dinitrophenol	<270	ug/kg	270	900	2000	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101869 Sample Description: C78SB-023M-0006-SO Sampled: 11/9/2011 1235

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4-Dinitrotoluene	<24	ug/kg	24	79	120	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
2,6-Dinitrotoluene	<24	ug/kg	24	81	120	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
2-Chloronaphthalene	<23	ug/kg	23	76	120	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
2-Chlorophenol	<340	ug/kg	340	1100	2000	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
2-Methylnaphthalene	81	ug/kg	0.22	0.73	3.0	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
2-Methylphenol	<420	ug/kg	420	1400	2000	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
2-Nitroaniline	<23	ug/kg	23	78	120	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
2-Nitrophenol	<280	ug/kg	280	940	1000	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
3 & 4-Methylphenol	<650	ug/kg	650	2200	3600	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
3,3'-Dichlorobenzidine	<150	ug/kg	150	490	500	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
3-Nitroaniline	<22	ug/kg	22	72	120	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
4,6-Dinitro-2-methylphenol	<270	ug/kg	270	900	1000	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
4-Bromophenyl-phenyl ether	<25	ug/kg	25	83	120	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
4-Chloro-3-methylphenol	<380	ug/kg	380	1300	2000	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
4-Chloroaniline	<39	ug/kg	39	130	200	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
4-Chlorophenyl-phenyl ether	<26	ug/kg	26	87	200	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
4-Nitroaniline	<30	ug/kg	30	100	120	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
4-Nitrophenol	<400	ug/kg	400	1300	2000	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Acenaphthene	7.1	ug/kg	0.33	1.1	3.0	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Acenaphthylene	24	ug/kg	0.24	0.82	3.0	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Anthracene	16	ug/kg	0.31	1.0	3.0	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Benzo(a)anthracene	110	ug/kg	0.32	1.1	3.0	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Benzo(a)pyrene	80	ug/kg	0.28	0.92	5.0	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Benzo(b)fluoranthene	150	ug/kg	0.40	1.3	3.0	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Benzo(g,h,i)perylene	44	ug/kg	0.39	1.3	3.0	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Benzo(k)fluoranthene	46	ug/kg	0.37	1.2	3.0	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Benzoic acid	<290	ug/kg	290	980	3000	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Benzyl alcohol	<83	ug/kg	83	280	400	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Bis(2-chloroethoxy)methane	<23	ug/kg	23	76	120	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101869 Sample Description: C78SB-023M-0006-SO Sampled: 11/9/2011 1235

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bis(2-chloroethyl)ether	<25	ug/kg	25	84	120	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Bis(2-chloroisopropyl)ether	<30	ug/kg	30	99	120	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Butylbenzylphthalate	<73	ug/kg	73	240	400	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Carbazole	<28	ug/kg	28	94	120	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Chrysene	100	ug/kg	0.35	1.2	3.0	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Di-n-butylphthalate	<79	ug/kg	79	260	400	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Di-n-octylphthalate	<59	ug/kg	59	200	200	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Dibenzo(a,h)anthracene	13	ug/kg	0.35	1.2	3.0	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Dibenzofuran	26	ug/kg	24	81	120	1	J	11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Diethylphthalate	<64	ug/kg	64	220	400	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Dimethylphthalate	<63	ug/kg	63	210	400	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Fluoranthene	180	ug/kg	0.36	1.2	3.0	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Fluorene	7.1	ug/kg	0.36	1.2	3.0	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Hexachlorobenzene	<28	ug/kg	28	94	120	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Hexachlorobutadiene	<62	ug/kg	62	210	400	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Hexachlorocyclopentadiene	<52	ug/kg	52	170	200	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Hexachloroethane	<33	ug/kg	33	110	120	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Indeno(1,2,3-cd)pyrene	56	ug/kg	0.36	1.2	3.0	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Isophorone	<50	ug/kg	50	170	200	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
N-Nitroso-di-n-propylamine	<70	ug/kg	70	230	400	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
N-Nitrosodiphenylamine & Diphn	<50	ug/kg	50	160	400	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Naphthalene	55	ug/kg	0.27	0.89	3.0	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Nitrobenzene	<59	ug/kg	59	200	200	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Pentachlorophenol	<240	ug/kg	240	800	1000	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Phenanthrene	110	ug/kg	0.45	1.5	3.0	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Phenol	<160	ug/kg	160	530	600	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Pyrene	150	ug/kg	0.41	1.4	1.5	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C ^
Surr: 2,4,6-Tribromophenol	24	% Recovery	35	125	35-125	1	S	11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C
Surr: 2-Fluorobiphenyl	54	% Recovery	45	105	45-105	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101869 Sample Description: C78SB-023M-0006-SO Sampled: 11/9/2011 1235

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Surr: 2-Fluorophenol	32	% Recovery	35	105	35-105	1	S	11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C
Surr: Nitrobenzene-d5	58	% Recovery	35	100	35-100	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C
Surr: o-terphenyl-d14	65	% Recovery	30	125	30-125	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C
Surr: Phenol-d5	49	% Recovery	40	100	40-100	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C
Surr: Terphenyl-d14	56	% Recovery	30	125	30-125	1		11/21/2011 13:30	11/28/2011 18:10	RPN	EPA 8270C
Sub Lab Results											
Asbestos	ATTACHED					1			12/01/2011 00:00	PML	

CT LAB#: 101870 Sample Description: C78SB-023V-0006-SO Sampled: 11/9/2011 1235

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	89.2	%				1			11/17/2011 14:00	BMS	EPA 8000C
Organic Results											
1,1,1-Trichloroethane	<11	ug/kg	11	36	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
1,1,2,2-Tetrachloroethane	<6.8	ug/kg	6.8	24	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
1,1,2-Trichloroethane	<9.0	ug/kg	9.0	29	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
1,1-Dichloroethane	<12	ug/kg	12	42	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
1,1-Dichloroethene	<18	ug/kg	18	59	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
1,2-Dibromoethane	<11	ug/kg	11	38	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
1,2-Dichloroethane	<14	ug/kg	14	44	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
1,2-Dichloropropane	<7.9	ug/kg	7.9	25	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
2-Butanone	<110	ug/kg	110	380	570	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
2-Hexanone	<77	ug/kg	77	260	570	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
4-Methyl-2-pentanone	<93	ug/kg	93	310	570	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
Acetone	160	ug/kg	71	240	570	1	J B	11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
Benzene	<5.7	ug/kg	5.7	20	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101870 Sample Description: C78SB-023V-0006-SO Sampled: 11/9/2011 1235

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromochloromethane	<9.0	ug/kg	9.0	29	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
Bromodichloromethane	<10	ug/kg	10	34	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
Bromoform	<6.8	ug/kg	6.8	24	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
Bromomethane	<34	ug/kg	34	110	110	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
Carbon disulfide	<17	ug/kg	17	58	110	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
Carbon tetrachloride	<12	ug/kg	12	42	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
Chlorobenzene	<9.0	ug/kg	9.0	28	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
Chloroethane	<21	ug/kg	21	74	110	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
Chloroform	<10	ug/kg	10	36	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
Chloromethane	<28	ug/kg	28	95	110	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
cis-1,2-Dichloroethene	<11	ug/kg	11	38	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
cis-1,3-Dichloropropene	<11	ug/kg	11	36	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
Dibromochloromethane	<9.0	ug/kg	9.0	29	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
Ethylbenzene	<9.0	ug/kg	9.0	28	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
m & p-Xylene	<20	ug/kg	20	68	110	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
Methylene chloride	<45	ug/kg	45	150	110	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
o-Xylene	<9.0	ug/kg	9.0	28	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
Styrene	<6.8	ug/kg	6.8	23	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
Tetrachloroethene	<9.0	ug/kg	9.0	31	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
Toluene	<7.9	ug/kg	7.9	28	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
trans-1,2-Dichloroethene	<12	ug/kg	12	43	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
trans-1,3-Dichloropropene	<7.9	ug/kg	7.9	26	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
Trichloroethene	<11	ug/kg	11	36	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
Trichlorofluoromethane	<15	ug/kg	15	48	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
Vinyl chloride	<16	ug/kg	16	53	57	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B ^
1,2 Dichloroethane-d4	98	% Recovery	80	117	80-117	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B
Bromofluorobenzene	104	% Recovery	85	120	85-120	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B
d8-Toluene	97	% Recovery	85	115	85-115	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B
Dibromofluoromethane	95	% Recovery	82	118	82-118	1		11/16/2011 12:30	11/17/2011 15:54	APG	EPA 8260B

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101871 Sample Description: C78SS-0005-0001-SO Sampled: 11/10/2011 1010

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	95.2	%				1			11/17/2011 14:00	BMS	EPA 8000C
Nitrocellulose	<13	mg/kg	13	44	100	1		11/21/2011 08:00	11/29/2011 07:12	RLD	EPA 9056M
Metals Results											
Aluminum	5830	mg/kg	0.084	0.29	0.50	2		11/21/2011 08:00	11/22/2011 12:10	NAH	EPA 6010C ^
Antimony	2.4	mg/kg	0.27	0.90	1.7	2		11/21/2011 08:00	11/22/2011 12:10	NAH	EPA 6010C ^
Arsenic	7.6	mg/kg	0.27	0.95	1.7	2		11/21/2011 08:00	11/22/2011 12:10	NAH	EPA 6010C ^
Barium	73.0	mg/kg	0.019	0.059	0.11	2		11/21/2011 08:00	11/22/2011 12:10	NAH	EPA 6010C ^
Beryllium	0.59	mg/kg	0.0084	0.025	0.084	2		11/21/2011 08:00	11/22/2011 12:10	NAH	EPA 6010C ^
Cadmium	0.52	mg/kg	0.013	0.044	0.084	2		11/21/2011 08:00	11/22/2011 12:10	NAH	EPA 6010C ^
Calcium	3030	mg/kg	0.50	1.7	2.9	2		11/21/2011 08:00	11/22/2011 12:10	NAH	EPA 6010C ^
Chromium	70.9	mg/kg	0.048	0.16	0.29	2	M	11/21/2011 08:00	11/22/2011 12:10	NAH	EPA 6010C ^
Cobalt	7.0	mg/kg	0.084	0.25	0.50	2		11/21/2011 08:00	11/22/2011 12:10	NAH	EPA 6010C ^
Copper	37.2	mg/kg	0.15	0.46	0.84	2		11/21/2011 08:00	11/22/2011 12:10	NAH	EPA 6010C ^
Iron	31400	mg/kg	0.63	2.1	3.8	2	M	11/21/2011 08:00	11/22/2011 12:10	NAH	EPA 6010C ^
Lead	145	mg/kg	0.084	0.29	0.53	2	M	11/21/2011 08:00	11/22/2011 12:10	NAH	EPA 6010C ^
Magnesium	1600	mg/kg	0.29	1.0	1.7	2		11/21/2011 08:00	11/22/2011 12:10	NAH	EPA 6010C ^
Manganese	604	mg/kg	0.053	0.17	0.32	2	M	11/21/2011 08:00	11/22/2011 12:10	NAH	EPA 6010C ^
Nickel	17.7	mg/kg	0.044	0.15	0.25	2		11/21/2011 08:00	11/22/2011 12:10	NAH	EPA 6010C ^
Selenium	0.44	mg/kg	0.063	0.22	0.42	1		11/21/2011 08:00	11/23/2011 11:21	NAH	EPA 6010C ^
Silver	0.085	mg/kg	0.018	0.059	0.11	1	J	11/21/2011 08:00	11/23/2011 11:21	NAH	EPA 6010C ^
Thallium	0.50	mg/kg	0.084	0.27	0.50	1		11/21/2011 08:00	11/23/2011 11:21	NAH	EPA 6010C ^
Vanadium	12.9	mg/kg	0.025	0.082	0.17	2		11/21/2011 08:00	11/22/2011 12:10	NAH	EPA 6010C ^
Zinc	131	mg/kg	0.11	0.34	0.63	2	M	11/21/2011 08:00	11/22/2011 12:10	NAH	EPA 6010C ^
Potassium	733	mg/kg	12	38	69	1		11/21/2011 08:00	11/22/2011 09:24	NAH	EPA 6010C ^
Sodium	<4.2	mg/kg	4.2	14	25	1		11/21/2011 08:00	11/22/2011 09:24	NAH	EPA 6010C ^
Mercury	0.043	mg/kg	0.0022	0.0074	0.0087	1	M	11/21/2011 12:00	11/22/2011 10:51	GCE	EPA 7471A ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101871 Sample Description: C78SS-0005-0001-SO Sampled: 11/10/2011 1010

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results											
Aroclor-1016	<11	ug/kg	11	37	110	1		11/17/2011 13:00	11/21/2011 17:00	JJY	EPA 8082A ^
Aroclor-1221	<21	ug/kg	21	70	110	1		11/17/2011 13:00	11/21/2011 17:00	JJY	EPA 8082A ^
Aroclor-1232	<29	ug/kg	29	95	110	1		11/17/2011 13:00	11/21/2011 17:00	JJY	EPA 8082A ^
Aroclor-1242	<31	ug/kg	31	100	110	1		11/17/2011 13:00	11/21/2011 17:00	JJY	EPA 8082A ^
Aroclor-1248	<31	ug/kg	31	100	110	1		11/17/2011 13:00	11/21/2011 17:00	JJY	EPA 8082A ^
Aroclor-1254	1100	ug/kg	49	160	210	2		11/17/2011 13:00	11/21/2011 20:54	JJY	EPA 8082A ^
Aroclor-1260	<13	ug/kg	13	40	110	1		11/17/2011 13:00	11/21/2011 17:00	JJY	EPA 8082A ^
Aroclor-1262	<22	ug/kg	22	75	110	1		11/17/2011 13:00	11/21/2011 17:00	JJY	EPA 8082A ^
Aroclor-1268	<30	ug/kg	30	97	110	1		11/17/2011 13:00	11/21/2011 17:00	JJY	EPA 8082A ^
Surr: DCBP	62	% Recovery	60	125	60-125	1		11/17/2011 13:00	11/21/2011 17:00	JJY	EPA 8082A
4,4'-DDD	<1.6	ug/kg	1.6	6.3	13	5		11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B ^
4,4'-DDE	<1.6	ug/kg	1.6	5.8	13	5	M	11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B ^
4,4'-DDT	29	ug/kg	2.6	7.9	13	5	P	11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B ^
Aldrin	<2.6	ug/kg	2.6	9.0	13	5		11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B ^
alpha-BHC	<3.2	ug/kg	3.2	10	13	5		11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B ^
alpha-Chlordane	<1.6	ug/kg	1.6	5.8	13	5		11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B ^
beta-BHC	<3.2	ug/kg	3.2	11	13	5		11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B ^
Chlordane (Technical)	<21	ug/kg	21	160	320	5		11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B ^
delta-BHC	1.6	ug/kg	1.6	5.8	13	5	J P	11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B ^
Dieldrin	29	ug/kg	1.6	6.3	13	5	P	11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B ^
Endosulfan I	170	ug/kg	3.7	12	13	5	P	11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B ^
Endosulfan II	2.6	ug/kg	1.6	6.3	13	5	J P	11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B ^
Endosulfan sulfate	<4.8	ug/kg	4.8	16	21	5		11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B ^
Endrin	7.9	ug/kg	2.1	7.4	13	5	J P	11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B ^
Endrin aldehyde	<5.8	ug/kg	5.8	19	21	5	M	11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B ^
Endrin ketone	<4.2	ug/kg	4.2	15	21	5		11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B ^
gamma-Chlordane	<1.6	ug/kg	1.6	5.8	13	5	M	11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101871 Sample Description: C78SS-0005-0001-SO Sampled: 11/10/2011 1010

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Heptachlor	<21	ug/kg	21	63	130	50	P	11/17/2011 13:00	11/30/2011 18:47	JJY	EPA 8081B ^
Heptachlor epoxide	<2.6	ug/kg	2.6	9.0	13	5		11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B ^
Lindane	<2.6	ug/kg	2.6	8.4	13	5		11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B ^
Methoxychlor	50	ug/kg	3.7	12	13	5	P	11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B ^
Toxaphene	<26	ug/kg	26	160	320	5		11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B ^
SURR:2,4,5,6-CL4-m-xylene	85	% Recovery	70	125	70-125	5		11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B
SURR:Decachlorobiphenyl	86	% Recovery	55	130	55-130	5		11/17/2011 13:00	11/30/2011 20:29	JJY	EPA 8081B
Nitroguanidine	0.12	mg/kg	0.060	0.21	0.25	1	J	11/22/2011 09:45	11/23/2011 11:55	red	EPA 8330
1,2-Dinitrobenzene	74	% Recovery	50	150	50-150	1		11/22/2011 09:45	11/23/2011 11:55	red	EPA 8330
1,3,5-Trinitrobenzene	<0.13	mg/kg	0.13	0.43	0.50	1		11/17/2011 14:00	11/22/2011 17:29	red	EPA 8330B
1,3-Dinitrobenzene	<0.080	mg/kg	0.080	0.26	0.40	1		11/17/2011 14:00	11/22/2011 17:29	red	EPA 8330B
2,4,6-Trinitrotoluene	4.5	mg/kg	0.090	0.31	0.40	1		11/17/2011 14:00	11/22/2011 17:29	red	EPA 8330B
2,4-Dinitrotoluene	<0.080	mg/kg	0.080	0.25	0.50	1		11/17/2011 14:00	11/22/2011 17:29	red	EPA 8330B
2,6-Dinitrotoluene	<0.070	mg/kg	0.070	0.24	0.50	1		11/17/2011 14:00	11/22/2011 17:29	red	EPA 8330B
2-Amino-4,6-dinitrotoluene	0.44	mg/kg	0.090	0.29	0.40	1		11/17/2011 14:00	11/22/2011 17:29	red	EPA 8330B
2-Nitrotoluene	<0.090	mg/kg	0.090	0.28	0.50	1		11/17/2011 14:00	11/22/2011 17:29	red	EPA 8330B
3-Nitrotoluene	<0.11	mg/kg	0.11	0.36	0.40	1		11/17/2011 14:00	11/22/2011 17:29	red	EPA 8330B
4-Amino-2,6-dinitrotoluene	0.74	mg/kg	0.080	0.25	0.40	1		11/17/2011 14:00	11/22/2011 17:29	red	EPA 8330B
4-Nitrotoluene	<0.10	mg/kg	0.10	0.34	0.40	1		11/17/2011 14:00	11/22/2011 17:29	red	EPA 8330B
HMX	<0.12	mg/kg	0.12	0.39	0.40	1		11/17/2011 14:00	11/22/2011 17:29	red	EPA 8330B
Nitrobenzene	<0.10	mg/kg	0.10	0.34	0.40	1		11/17/2011 14:00	11/22/2011 17:29	red	EPA 8330B
Nitroglycerin	<0.50	mg/kg	0.50	1.8	2.0	1		11/17/2011 14:00	11/22/2011 17:29	red	EPA 8330B
PETN	<0.60	mg/kg	0.60	1.9	2.0	1		11/17/2011 14:00	11/22/2011 17:29	red	EPA 8330B
RDX	<0.14	mg/kg	0.14	0.46	0.50	1		11/17/2011 14:00	11/22/2011 17:29	red	EPA 8330B
Tetryl	<0.090	mg/kg	0.090	0.30	0.40	1		11/17/2011 14:00	11/22/2011 17:29	red	EPA 8330B
1,2-Dinitrobenzene	75	% Recovery	74	128	74-128	1		11/17/2011 14:00	11/22/2011 17:29	red	EPA 8330B
1,2,4-Trichlorobenzene	<22	ug/kg	22	72	130	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
1,2-Dichlorobenzene	<25	ug/kg	25	82	130	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101871 Sample Description: C78SS-0005-0001-SO Sampled: 11/10/2011 1010

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3-Dichlorobenzene	<21	ug/kg	21	70	130	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
1,4-Dichlorobenzene	<20	ug/kg	20	66	130	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
2,4,5-Trichlorophenol	<140	ug/kg	140	460	630	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
2,4,6-Trichlorophenol	<140	ug/kg	140	460	630	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
2,4-Dichlorophenol	<130	ug/kg	130	430	630	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
2,4-Dimethylphenol	<100	ug/kg	100	340	630	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
2,4-Dinitrophenol	<280	ug/kg	280	940	2100	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
2,4-Dinitrotoluene	<25	ug/kg	25	82	130	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
2,6-Dinitrotoluene	<25	ug/kg	25	84	130	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
2-Chloronaphthalene	<24	ug/kg	24	79	130	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
2-Chlorophenol	<350	ug/kg	350	1100	2100	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
2-Methylnaphthalene	38	ug/kg	0.23	0.76	3.1	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
2-Methylphenol	<440	ug/kg	440	1500	2100	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
2-Nitroaniline	<24	ug/kg	24	81	130	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
2-Nitrophenol	<290	ug/kg	290	980	1000	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
3 & 4-Methylphenol	<680	ug/kg	680	2300	3800	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
3,3'-Dichlorobenzidine	<160	ug/kg	160	510	520	1	M	11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
3-Nitroaniline	<23	ug/kg	23	75	130	1	M	11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
4,6-Dinitro-2-methylphenol	<280	ug/kg	280	940	1000	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
4-Bromophenyl-phenyl ether	<26	ug/kg	26	86	130	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
4-Chloro-3-methylphenol	<400	ug/kg	400	1400	2100	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
4-Chloroaniline	<41	ug/kg	41	140	210	1	M,Y	11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
4-Chlorophenyl-phenyl ether	<27	ug/kg	27	91	210	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
4-Nitroaniline	<31	ug/kg	31	100	130	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
4-Nitrophenol	<420	ug/kg	420	1400	2100	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Acenaphthene	53	ug/kg	0.34	1.1	3.1	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Acenaphthylene	10	ug/kg	0.25	0.85	3.1	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Anthracene	120	ug/kg	0.32	1.0	3.1	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Benzo(a)anthracene	280	ug/kg	0.33	1.1	3.1	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101871 Sample Description: C78SS-0005-0001-SO Sampled: 11/10/2011 1010

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Benzo(a)pyrene	240	ug/kg	0.29	0.96	5.2	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Benzo(b)fluoranthene	410	ug/kg	0.42	1.4	3.1	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Benzo(g,h,i)perylene	80	ug/kg	0.41	1.4	3.1	1	M	11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Benzo(k)fluoranthene	130	ug/kg	0.39	1.3	3.1	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Benzoic acid	850	ug/kg	300	1000	3100	1	J	11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Benzyl alcohol	<86	ug/kg	86	290	420	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Bis(2-chloroethoxy)methane	<24	ug/kg	24	79	130	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Bis(2-chloroethyl)ether	<26	ug/kg	26	88	130	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Bis(2-chloroisopropyl)ether	<31	ug/kg	31	100	130	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Butylbenzylphthalate	<76	ug/kg	76	250	420	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Carbazole	70	ug/kg	29	98	130	1	J	11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Chrysene	310	ug/kg	0.36	1.3	3.1	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Di-n-butylphthalate	<82	ug/kg	82	270	420	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Di-n-octylphthalate	<61	ug/kg	61	210	210	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Dibenzo(a,h)anthracene	27	ug/kg	0.36	1.3	3.1	1	M	11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Dibenzofuran	34	ug/kg	25	84	130	1	J	11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Diethylphthalate	<67	ug/kg	67	230	420	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Dimethylphthalate	<66	ug/kg	66	220	420	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Fluoranthene	720	ug/kg	0.38	1.3	3.1	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Fluorene	62	ug/kg	0.38	1.3	3.1	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Hexachlorobenzene	<29	ug/kg	29	98	130	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Hexachlorobutadiene	<65	ug/kg	65	220	420	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Hexachlorocyclopentadiene	<54	ug/kg	54	180	210	1	M	11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Hexachloroethane	<34	ug/kg	34	110	130	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Indeno(1,2,3-cd)pyrene	120	ug/kg	0.38	1.3	3.1	1	M	11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Isophorone	<52	ug/kg	52	180	210	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
N-Nitroso-di-n-propylamine	<73	ug/kg	73	240	420	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
N-Nitrosodiphenylamine & Diphn	<52	ug/kg	52	170	420	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Naphthalene	41	ug/kg	0.28	0.93	3.1	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101871 Sample Description: C78SS-0005-0001-SO Sampled: 11/10/2011 1010

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Nitrobenzene	<61	ug/kg	61	210	210	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Pentachlorophenol	<250	ug/kg	250	830	1000	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Phenanthrene	500	ug/kg	0.47	1.6	3.1	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Phenol	<170	ug/kg	170	550	630	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Pyrene	540	ug/kg	0.43	1.5	1.6	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C ^
Surr: 2,4,6-Tribromophenol	57	% Recovery	35	125	35-125	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C
Surr: 2-Fluorobiphenyl	55	% Recovery	45	105	45-105	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C
Surr: 2-Fluorophenol	40	% Recovery	35	105	35-105	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C
Surr: Nitrobenzene-d5	57	% Recovery	35	100	35-100	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C
Surr: o-terphenyl-d14	62	% Recovery	30	125	30-125	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C
Surr: Phenol-d5	45	% Recovery	40	100	40-100	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C
Surr: Terphenyl-d14	61	% Recovery	30	125	30-125	1		11/21/2011 13:30	11/28/2011 20:02	RPN	EPA 8270C
Sub Lab Results											
Asbestos	ATTACHED					1			12/01/2011 00:00	PML	

CT LAB#: 101872 Sample Description: C78SS-0006-0001-SO Sampled: 11/10/2011 0930

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	82.0	%				1			11/17/2011 14:00	BMS	EPA 8000C
Organic Results											
1,1,1-Trichloroethane	<11	ug/kg	11	34	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
1,1,2,2-Tetrachloroethane	<6.4	ug/kg	6.4	22	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
1,1,2-Trichloroethane	<8.5	ug/kg	8.5	28	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
1,1-Dichloroethane	<12	ug/kg	12	40	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
1,1-Dichloroethene	<17	ug/kg	17	56	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
1,2-Dibromoethane	<11	ug/kg	11	36	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101872 Sample Description: C78SS-0006-0001-SO Sampled: 11/10/2011 0930

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dichloroethane	<13	ug/kg	13	42	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
1,2-Dichloropropane	<7.5	ug/kg	7.5	23	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
2-Butanone	<110	ug/kg	110	360	530	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
2-Hexanone	<73	ug/kg	73	250	530	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
4-Methyl-2-pentanone	<88	ug/kg	88	290	530	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
Acetone	84	ug/kg	67	220	530	1	J B	11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
Benzene	<5.3	ug/kg	5.3	19	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
Bromochloromethane	<8.5	ug/kg	8.5	28	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
Bromodichloromethane	<9.6	ug/kg	9.6	32	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
Bromoform	<6.4	ug/kg	6.4	22	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
Bromomethane	<32	ug/kg	32	110	110	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
Carbon disulfide	<16	ug/kg	16	54	110	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
Carbon tetrachloride	<12	ug/kg	12	40	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
Chlorobenzene	<8.5	ug/kg	8.5	27	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
Chloroethane	<20	ug/kg	20	69	110	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
Chloroform	<9.6	ug/kg	9.6	34	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
Chloromethane	<27	ug/kg	27	90	110	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
cis-1,2-Dichloroethene	<11	ug/kg	11	36	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
cis-1,3-Dichloropropene	<11	ug/kg	11	34	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
Dibromochloromethane	<8.5	ug/kg	8.5	28	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
Ethylbenzene	<8.5	ug/kg	8.5	27	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
m & p-Xylene	<19	ug/kg	19	64	110	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
Methylene chloride	<43	ug/kg	43	140	110	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
o-Xylene	<8.5	ug/kg	8.5	27	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
Styrene	<6.4	ug/kg	6.4	21	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
Tetrachloroethene	<8.5	ug/kg	8.5	29	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
Toluene	<7.5	ug/kg	7.5	27	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
trans-1,2-Dichloroethene	<12	ug/kg	12	41	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
trans-1,3-Dichloropropene	<7.5	ug/kg	7.5	25	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 101872 Sample Description: C78SS-0006-0001-SO Sampled: 11/10/2011 0930

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Trichloroethene	<11	ug/kg	11	34	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
Trichlorofluoromethane	<14	ug/kg	14	45	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
Vinyl chloride	<15	ug/kg	15	50	53	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B ^
1,2 Dichloroethane-d4	99	% Recovery	80	117	80-117	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B
Bromofluorobenzene	103	% Recovery	85	120	85-120	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B
d8-Toluene	99	% Recovery	85	115	85-115	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B
Dibromofluoromethane	99	% Recovery	82	118	82-118	1		11/16/2011 12:30	11/17/2011 16:32	APG	EPA 8260B

CT LAB#: 101875 Sample Description: C78SS-0009-0002-BD Sampled: 11/10/2011 0930

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method

Sub Lab Results

Asbestos	ATTACHED					1			12/01/2011 00:00	PML	

Solid sample results reported on a Dry Weight Basis

Notes: ^ Indicates the laboratory is NELAP accredited for this analyte by the indicated matrix and method.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report has been specifically prepared to satisfy project or program requirements. The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Level of uncertainty measurements only provided upon pre-approved request.

Submitted by: PML r
Project Manager
608-356-2760

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Illinois NELAP ID# 200046

Kansas NELAP ID# E-10368

Kentucky ID# 0023

Pennsylvania NELAP ID# 68-04201

New Jersey NELAP ID# WI001

North Carolina ID# 674

Wisconsin (WDNR) Chemistry ID# 157066030

Wisconsin (DATCP) Bacteriology ID# 105-289

DoD-ELAP Accreditation Cert # ADE-1453

Alaska ID # UST-099

Louisiana ID # 115843

GA EPD Stipulation ID 115843, Exp 6-30-12

GA EPD Stipulation

Accreditor:	LA NELAP
Scope:	Hazardous/Solid Waste Non-potable water
Effective:	07/012011

Rev. 3/2006

Chain of Custody

Page 1 of _____

Company: PRUDENT
Project Contact: JOHN JENT
Telephone: 502 439-8005
Project Name: PHIRI CC-78
Project Number: W912QR10-P-0052
Project Location:
Sampled By: JENT, MILLER, HERNANDEZ

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other RVAP

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www.ctlaboratories.com

Turnaround Time
~~Normal~~ RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%, subject to change without notice.

Folder #: 88174
Company: USACE - LOUISVILLE
Project: CC-78
Logged By: PML PM: PM

Mail Report To: {TOM CHANDA, DEREK KINDER}
Company: USACE
Address: 600 MARTIN LUTHER KING PL
City/State/Zip: LOUISVILLE, KY 40202

Invoice To:
Company: SAME
Address:
City/State/Zip:

PO No.

Client Special Instructions:

88174

Landfill License Number:

Page 20 of 153

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	TAL METALS 6010B	HG 7471B	SVOCs Low-level 8270C	EXPLOSIVES 8330B	PROPELLANTS 8330M/353.2	PESTICIDES 8081A	PCBs 8082	VOCs 8260B	ACM EPA 600/R-93/116	Total # of Containers	Preservation* MeOH	Lab ID #
				Filt? Y/N			Fill in Spaces with Bottles per Test										
11-9-2011	0830-1230	C	C785B-023M-0101-50		S	✓	✓	✓	✓	✓	✓	✓		✓			101855
	0830-1230		C785B-023V-0101-50		MS								✓			✓	101856
	0830-1230		C785B-023M-0102-50		S	✓	✓	✓	✓	✓	✓	✓		✓			101857
	0830-1230		C785B-023V-0102-50		MS								✓			✓	101858
	0925		C785B-023M-0001-50		S	✓	✓	✓	✓	✓	✓	✓		✓			101859
	0925		C785B-023V-0001-50		MS								✓			✓	101860
	1000		C785B-023M-0002-50		S	✓	✓	✓	✓	✓	✓	✓		✓			101861
	1000		C785B-023V-0002-50		MS								✓			✓	101862
	1055		C785B-023M-0003-50		S	✓	✓	✓	✓	✓	✓	✓		✓			101863
	1055		C785B-023V-0003-50		MS								✓			✓	101864
	1130		C785B-023M-0004-50		S	✓	✓	✓	✓	✓	✓	✓		✓			101865
	1130		C785B-023V-0004-50		MS								✓			✓	101866
11-9-2011	1210	C	C785B-023M-0005-50		S	✓	✓	✓	✓	✓	✓	✓		✓			101867

Relinquished By:	Date/Time	Relinquished By:	Date/Time
	11-10-2011		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
			11/11/11 1400

Ice Present (Yes) No
Temperature 2.0, 1.7
Cooler # 2 COOLERS 5169, 5083
11/11/11 1130

**Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other MeOH

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water
MS- SOIL IN METHANOL

Rev. 3/2006

Chain of Custody

Page 2 of _____

Company: PRUDENT
Project Contact: JOHN JENT
Telephone: 502 439-8005
Project Name: AHRL CC-78
Project Number: W912QR-10-P-0052
Project Location: RVAAP
Sampled By: JENT-MILLER-HERNANDEZ

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other RVAAP

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www.ctlaboratories.com

Turnaround Time
~~Normal~~ RUSH*
Date Needed _____
*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%, subject to change without notice.

Lab Use Only
Place Header Sticker Here:
88174

Mail Report To: TOM CHANDA
Company: USACE (DEREK KINDER)
Address: 600 MARTIN LUTHER KING PL
City/State/Zip: LOUISVILLE, KY 40202

Invoice To:
Company: SAMF
Address:
City/State/Zip:

PO No.

Client Special Instructions:
CT- PAT LETTERER

88174

Landfill License Number:

Page 2 of 3

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	Filt? Y/N TAL METALS 6010B	HG 7471B	SVOCs LOW LEVEL 8270C	EXPLOSIVES 8330B	PROPELLANTS 8330M/353.2	PESTICIDES 8081A	PCBs 8082	VOCs 8260B	ACM EPA 600/R-93/116	Total # of Containers	Preservation* MeOH	Lab ID #
						Fill in Spaces with Bottles per Test											
11-9-2011	1210		C785B-023V-0005-SO		MS								✓			✓	101868
11-9-2011	1235		C785B-023M-0006-SO		S	✓	✓	✓	✓	✓	✓	✓		✓			101869
11-9-2011	1235		C785B-023V-0006-SO		MS								✓			✓	101870
11-10-2011	1010		C7855-0005-0001-SO		S	✓	✓	✓	✓	✓	✓	✓		✓			101871
11-10-2011	0930		C7855-0006-0001-SO		MS								✓			✓	101872
11-10-2011	1010		C7855-0008-0001-SO		S	XX	✓	✓	✓	✓	✓	✓		·			MS/MSD 101872 PML
11-10-2011	0930		C7855-0008-0002-SO		M								✓			✓	MS/MSD 101873 PML
11-10-2011	0930		C7855-0009-0002-BD		S											✓	TRANSITE 101875
			LAST ITEM														

Relinquished By:	Date/Time	Relinquished By:	Date/Time
[signature]	11-10-2011		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
		[signature]	11/11/11 1400

Ice Present (Yes) No
Temperature 2.1, 1.7
Cooler # 5129, 5083
11/4/11 1130 [signature]

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water
MS- SOIL IN METHANOL

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

EMSL Analytical, Inc.
2001 East 52nd St., Indianapolis, IN 46205
Phone: (317) 803-2997 Fax: (317) 803-3047 Email: indianapolislab@emsl.com

Attn: **Pat Letterer**
CT Laboratories
1230 Lange Court
Baraboo, WI 53913-3109

Fax: (608) 356-2766 Phone: (608) 356-2760
Project: **CC-78**

Customer ID: CTLA62
Customer PO: 88174EMSLIN
Received: 11/16/11 10:15 AM
EMSL Order: 161121005

EMSL Proj:
Analysis Date: 11/30/2011

Test Report: PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
101855 *161121005-0001*		Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
101857 *161121005-0002*		Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
101859 *161121005-0003*		Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
101861 *161121005-0004*		Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
101863 *161121005-0005*		Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
101865 *161121005-0006*		Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
101867 *161121005-0007*		Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
101869 *161121005-0008*		Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
101871 *161121005-0009*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**

Initial report from 11/30/2011 14:14:24

Analyst(s)

Craig Nixon (3)
Nathan Husted (6)

Richard Harding, Laboratory Manager
or other approved signatory

This report relates only to the samples listed above and may not be reproduced except in full, without EMSL's written approval. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for sample collection activities or method limitations. Some samples may contain asbestos fibers below the resolution limit of PLM. EMSL recommends that samples reported as none detected or less than the limit of detection undergo additional analysis via TEM. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN

EMSL Analytical, Inc.
2001 East 52nd St., Indianapolis, IN 46205
Phone: (317) 803-2997 Fax: (317) 803-3047 Email: indianapolislab@emsl.com

Attn: **Pat Letterer**
CT Laboratories
1230 Lange Court
Baraboo, WI 53913-3109

Fax: (608) 356-2766 Phone: (608) 356-2760
Project: **CC-78**

Customer ID: CTLA62
Customer PO: 88174EMSLIN
Received: 11/16/11 10:15 AM
EMSL Order: 161121005

EMSL Proj:
Analysis Date: 11/30/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
101875 *161121005-0010*		Gray Fibrous Homogeneous		85% Non-fibrous (other)	**15% Chrysotile**

Initial report from 11/30/2011 14:14:24

Analyst(s)

Craig Nixon (1)

Richard Harding, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN

161121005

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www.ctlaboratories.com

Sub-Contract Laboratory Chain-of-Custody and Purchase Order

PURCHASE ORDER # 88174 EMSLIN

The PO# must appear on all invoice and reports!

Upon Receipt of Samples, please verify that samples were received in acceptable condition then sign this form and fax to (608)356-2766 or email to the project manager. Sample temperature, upon receipt, must be recorded on this document unless thermal preservation is not a method requirement.

Ship to: **EMSL Analytical Inc. - IN**
2001 East 52nd Street
Indianapolis, IN 46205

Return Invoice and Results to: **pletterer@ctlaboratories.com**

CTLaboratories
Pat Letterer
1230 Lange Court
Baraboo WI 53913

Date Due: 11-30-11 2wk. ***RUSH TURNAROUND NEEDED? Y or N (Circle One)***

Project Name: CC-78 **Project State:** OH

Analytical/QC Criteria: NONE INDICATED STATE DOD QSM NELAP (Circle one) OTHER_____

Report results as EDD? N Y (Circle one and indicate type: _____) Data Deliverable Package LEVEL: IV

CTLabs ID#	Sample Date/Time	Matrix	Sample Description	Analyses / Method	Cost
101855	11/9/2011 1230	SOIL	C78SB-023M-0101-SO	PLM CARB 435 Level A	$52.50
101857	11/9/2011 1230	SOIL	C78SB-023M-0102-SO		
101859	11/9/2011 0925	SOIL	C78SB-023M-0001-SO		
101861	11/9/2011 1000	SOIL	C78SB-023M-0002-SO		
101863	11/9/2011 1055	SOIL	C78SB-023M-0003-SO		
101865	11/9/2011 1130	SOIL	C78SB-023M-0004-SO		
101867	11/9/2011 1210	SOIL	C78SB-023M-0005-SO		
101869	11/9/2011 1235	SOIL	C78SB-023M-0006-SO		
101871	11/10/2011 1010	SOIL	C78SS-0005-0001-SO		
101875	11/10/2011 0930	SOIL	C78SS-0009-0002-BD		

Relinquished by: _____ Date/Time: _____

Received by: [signature] Date/Time: 11-16-11 1015 Receipt Temperature (C) _____

COMMENTS:

88174 - Page 74 of 153

✓ PM 11-21-11

161121005

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QC SUMMARY REPORT

USACE - LOUISVILLE **Project Name: CC-78**

SDG #: 0 **Folder #: 88174** **Project Number: W912QR-10-D-0024**

Duplicate

Analytical Run #:	80822	Analysis Date:	11/17/2011	Prep Batch #:		Matrix:	SOIL
CTLab #:	103886	Analysis Time:	14:00	Prep Date/Time:		Method:	SW8000C
Parent Sample #:	101871	Analyst:	BMS	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Solids, Percent	95.3	%	95.2					0	8

Lab Control Spike Soil

Analytical Run #:	80918	Analysis Date:	11/29/2011	Prep Batch #:	39458	Matrix:	SOLID
CTLab #:	104626	Analysis Time:	03:36	Prep Date/Time:	11/21/2011 08:00	Method:	SW9056M
Parent Sample #:		Analyst:	RLD	Prep Analyst:	BMS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrocellulose	393	mg/kg			500	79	63 --- 130		

Method Blank Soil

Analytical Run #:	80918	Analysis Date:	11/29/2011	Prep Batch #:	39458	Matrix:	SOLID
CTLab #:	104625	Analysis Time:	03:54	Prep Date/Time:	11/21/2011 08:00	Method:	SW9056M
Parent Sample #:		Analyst:	RLD	Prep Analyst:	BMS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrocellulose	50	mg/kg		U	0		50		

Matrix Spike Duplicate Soil

Analytical Run #:	80918	Analysis Date:	11/29/2011	Prep Batch #:	39458	Matrix:	SOIL
CTLab #:	104628	Analysis Time:	07:48	Prep Date/Time:	11/21/2011 08:00	Method:	SW9056M
Parent Sample #:	104627	Analyst:	RLD	Prep Analyst:	BMS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrocellulose	318	mg/kg	BDL		500	64	63 --- 130	1	20

Matrix Spike Soil

Analytical Run #:	80918	Analysis Date:	11/29/2011	Prep Batch #:	39458	Matrix:	SOIL
CTLab #:	104627	Analysis Time:	07:30	Prep Date/Time:	11/21/2011 08:00	Method:	SW9056M
Parent Sample #:	101871	Analyst:	RLD	Prep Analyst:	BMS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrocellulose	316	mg/kg	BDL		500	63	63 --- 130		

Duplicate

Analytical Run #:	80892	Analysis Date:	11/22/2011	Prep Batch #:	39442	Matrix:	SOIL
CTLab #:	104126	Analysis Time:	12:24	Prep Date/Time:	11/21/2011 08:00	Method:	SW6010
Parent Sample #:	101871	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	6360	mg/kg	111000.				9.6	9	20
Antimony	2.6	mg/kg	46.6				32	6	20
Arsenic	7.8	mg/kg	144.				32	3	20
Barium	79.3	mg/kg	1390.				2.0	8	20
Beryllium	0.64	mg/kg	11.3				1.60	7	20
Cadmium	0.31	mg/kg	9.99				1.60	52	20
Calcium	3270	mg/kg	57600.				56	8	20
Chromium	74.1	mg/kg	1350.				5.6	4	20
Cobalt	7.1	mg/kg	133.				9.6	1	20
Copper	39.9	mg/kg	708.				16.0	7	20
Iron	33700	mg/kg	598000.				72	7	20
Lead	147	mg/kg	2770.				10.0	1	20
Magnesium	1660	mg/kg	30400.				32	4	20
Manganese	651	mg/kg	11500.				6.0	8	20
Nickel	21.6	mg/kg	337.				4.8	20	20
Selenium	0.83	mg/kg	16.9				16.0	61	20
Silver	0.069	mg/kg	3.22				4.0	20	20
Thallium	0.53	mg/kg	19.0				19	7	20
Vanadium	13.5	mg/kg	245.				3.2	5	20
Zinc	132	mg/kg	2490.				12.0	1	20

Lab Control Spike Soil

Analytical Run #:	80892	Analysis Date:	11/22/2011	Prep Batch #:	39442	Matrix:	SOLID
CTLab #:	104130	Analysis Time:	10:34	Prep Date/Time:	11/21/2011 08:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	108	mg/kg			100	108	80 --- 120		
Antimony	23.3	mg/kg			25.0	93	80 --- 120		
Arsenic	104	mg/kg			100	104	80 --- 120		
Barium	105	mg/kg			100	105	80 --- 120		
Beryllium	2.5	mg/kg			2.5	100	80 --- 120		
Cadmium	2.4	mg/kg			2.5	96	80 --- 120		
Calcium	5250	mg/kg			5000	105	80 --- 120		
Chromium	9.8	mg/kg			10.0	98	80 --- 120		
Cobalt	24.3	mg/kg			25.0	97	80 --- 120		
Copper	13.1	mg/kg			12.5	105	80 --- 120		
Iron	52.5	mg/kg			50.0	105	80 --- 120		
Lead	22.4	mg/kg			25.0	90	80 --- 120		
Magnesium	2530	mg/kg			2500	101	80 --- 120		
Manganese	24.7	mg/kg			25.0	99	80 --- 120		
Nickel	22.7	mg/kg			25.0	91	80 --- 120		
Selenium	98.5	mg/kg			100	98	80 --- 120		
Silver	2.3	mg/kg			2.5	92	75 --- 120		
Thallium	108	mg/kg			100	108	80 --- 120		
Vanadium	26.0	mg/kg			25.0	104	80 --- 120		
Zinc	23.8	mg/kg			25.0	95	80 --- 120		

Method Blank Soil

Analytical Run #:	80892	Analysis Date:	11/22/2011	Prep Batch #:	39442	Matrix:	SOLID
CTLab #:	104129	Analysis Time:	10:41	Prep Date/Time:	11/21/2011 08:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	0.12	mg/kg		U	0		0.12		
Antimony	0.40	mg/kg		U	0		0.40		
Arsenic	0.40	mg/kg		U	0		0.40		
Barium	0.025	mg/kg		U	0		0.025		
Beryllium	0.020	mg/kg		U	0		0.020		
Cadmium	0.020	mg/kg		U	0		0.020		
Calcium	0.70	mg/kg		U	0		0.70		
Chromium	0.125	mg/kg		U	0		0.125		
Cobalt	0.12	mg/kg		U	0		0.12		
Copper	0.20	mg/kg		U	0		0.20		
Iron	0.9	mg/kg		U	0		0.9		
Lead	0.125	mg/kg		U	0		0.125		
Magnesium	0.40	mg/kg		U	0		0.40		
Manganese	0.075	mg/kg		U	0		0.075		
Nickel	0.060	mg/kg		U	0		0.060		
Selenium	0.20	mg/kg		U	0		0.20		
Silver	0.050	mg/kg		U	0		0.050		
Thallium	0.24	mg/kg		U	0		0.24		
Vanadium	0.040	mg/kg		U	0		0.040		
Zinc	0.15	mg/kg		U	0		0.15		

Matrix Spike Duplicate Soil

Analytical Run #:	80892	Analysis Date:	11/22/2011	Prep Batch #:	39442	Matrix:	SOIL
CTLab #:	104128	Analysis Time:	12:38	Prep Date/Time:	11/21/2011 08:00	Method:	SW6010
Parent Sample #:	104127	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	6090	mg/kg	5830		105	248	80 --- 120	22	20
Antimony	12.5	mg/kg	2.4		26.3	38	80 --- 120	5	20
Arsenic	113	mg/kg	7.6		105	100	80 --- 120	3	20
Barium	179	mg/kg	73.0		105	101	80 --- 120	12	20
Beryllium	3.1	mg/kg	0.59		2.6	97	80 --- 120	8	20
Cadmium	2.9	mg/kg	0.52		2.6	92	80 --- 120	9	20
Calcium	8140	mg/kg	3030		5250	97	80 --- 120	13	20
Chromium	99.8	mg/kg	70.9		10.5	275	80 --- 120	8	20
Cobalt	29.6	mg/kg	7.0		26.3	86	80 --- 120	19	20
Copper	47.3	mg/kg	37.2		13.1	77	80 --- 120	17	20
Iron	29100	mg/kg	31400		52.5	0	80 --- 120	24	20
Lead	164	mg/kg	145		26.3	72	80 --- 120	22	20
Magnesium	4000	mg/kg	1600		2630	91	80 --- 120	13	20
Manganese	604	mg/kg	604		26.3	0	80 --- 120	21	20
Nickel	44.1	mg/kg	17.7		26.3	100	80 --- 120	13	20
Selenium	104	mg/kg	0.44		105	99	80 --- 120	1	20
Silver	2.4	mg/kg	0.085		2.6	89	80 --- 120	6	20
Thallium	106	mg/kg	0.50		105	100	80 --- 120	0	20
Vanadium	33.9	mg/kg	12.9		26.3	80	80 --- 120	11	20
Zinc	146	mg/kg	131		26.3	57	80 --- 120	21	20

Matrix Spike Soil

Analytical Run #:	80892	Analysis Date:	11/22/2011	Prep Batch #:	39442	Matrix:	SOIL
CTLab #:	104127	Analysis Time:	12:31	Prep Date/Time:	11/21/2011 08:00	Method:	SW6010
Parent Sample #:	101871	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	7560	mg/kg	5830		105	1648	80 --- 120		
Antimony	11.9	mg/kg	2.4		26.3	36	80 --- 120		
Arsenic	117	mg/kg	7.6		105	104	80 --- 120		
Barium	202	mg/kg	73.0		105	123	80 --- 120		
Beryllium	3.4	mg/kg	0.59		2.6	108	80 --- 120		
Cadmium	3.1	mg/kg	0.52		2.6	99	80 --- 120		
Calcium	9240	mg/kg	3030		5250	118	80 --- 120		
Chromium	92.4	mg/kg	70.9		10.5	205	80 --- 120		
Cobalt	35.9	mg/kg	7.0		26.3	110	80 --- 120		
Copper	56.2	mg/kg	37.2		13.1	145	80 --- 120		
Iron	36900	mg/kg	31400		52.5	10476	80 --- 120		
Lead	205	mg/kg	145		26.3	228	80 --- 120		
Magnesium	4580	mg/kg	1600		2630	113	80 --- 120		
Manganese	746	mg/kg	604		26.3	540	80 --- 120		
Nickel	50.1	mg/kg	17.7		26.3	123	80 --- 120		
Selenium	103	mg/kg	0.44		105	98	80 --- 120		
Silver	2.5	mg/kg	0.085		2.6	93	80 --- 120		
Thallium	106	mg/kg	0.50		105	100	80 --- 120		
Vanadium	37.7	mg/kg	12.9		26.3	94	80 --- 120		
Zinc	181	mg/kg	131		26.3	190	80 --- 120		

Duplicate

Analytical Run #:	80893	Analysis Date:	11/22/2011	Prep Batch #:	39442	Matrix:	SOIL
CTLab #:	104126	Analysis Time:	09:29	Prep Date/Time:	11/21/2011 08:00	Method:	SW6010
Parent Sample #:	101871	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	735	mg/kg	27.9				2640	0	20

Duplicate

Analytical Run #:	80893	Analysis Date:	11/22/2011	Prep Batch #:	39442	Matrix:	SOIL
CTLab #:	104126	Analysis Time:	09:29	Prep Date/Time:	11/21/2011 08:00	Method:	SW6010
Parent Sample #:	101871	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	4.20	mg/kg	BDL	U			960	0	20

Lab Control Spike Soil

Analytical Run #:	80893	Analysis Date:	11/22/2011	Prep Batch #:	39442	Matrix:	SOLID
CTLab #:	104130	Analysis Time:	08:55	Prep Date/Time:	11/21/2011 08:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	2230	mg/kg			2500	89	80 --- 120		

Lab Control Spike Soil

Analytical Run #:	80893	Analysis Date:	11/22/2011	Prep Batch #:	39442	Matrix:	SOLID
CTLab #:	104130	Analysis Time:	08:55	Prep Date/Time:	11/21/2011 08:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	2270	mg/kg			2500	91	80 --- 120		

Method Blank Soil

Analytical Run #:	80893	Analysis Date:	11/22/2011	Prep Batch #:	39442	Matrix:	SOLID
CTLab #:	104129	Analysis Time:	08:57	Prep Date/Time:	11/21/2011 08:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	33	mg/kg		U	0		33		

Method Blank Soil

Analytical Run #:	80893	Analysis Date:	11/22/2011	Prep Batch #:	39442	Matrix:	SOLID
CTLab #:	104129	Analysis Time:	08:57	Prep Date/Time:	11/21/2011 08:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	12	mg/kg		U	0		12		

Matrix Spike Duplicate Soil

Analytical Run #:	80893	Analysis Date:	11/22/2011	Prep Batch #:	39442	Matrix:	SOIL
CTLab #:	104128	Analysis Time:	09:34	Prep Date/Time:	11/21/2011 08:00	Method:	SW6010
Parent Sample #:	104127	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	3150	mg/kg	733		2630	92	80 --- 120	2	20

Matrix Spike Duplicate Soil

Analytical Run #:	80893	Analysis Date:	11/22/2011	Prep Batch #:	39442	Matrix:	SOIL
CTLab #:	104128	Analysis Time:	09:34	Prep Date/Time:	11/21/2011 08:00	Method:	SW6010
Parent Sample #:	104127	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	2370	mg/kg	BDL		2630	90	80 --- 120	1	20

Matrix Spike Soil

Analytical Run #:	80893	Analysis Date:	11/22/2011	Prep Batch #:	39442	Matrix:	SOIL
CTLab #:	104127	Analysis Time:	09:32	Prep Date/Time:	11/21/2011 08:00	Method:	SW6010
Parent Sample #:	101871	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	3200	mg/kg	733		2630	94	80 --- 120		

Matrix Spike Soil

Analytical Run #:	80893	Analysis Date:	11/22/2011	Prep Batch #:	39442	Matrix:	SOIL
CTLab #:	104127	Analysis Time:	09:32	Prep Date/Time:	11/21/2011 08:00	Method:	SW6010
Parent Sample #:	101871	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	2400	mg/kg	BDL		2630	91	80 --- 120		

Duplicate

Analytical Run #:	80903	Analysis Date:	11/22/2011	Prep Batch #:	39448	Matrix:	SOIL
CTLab #:	104235	Analysis Time:	10:55	Prep Date/Time:	11/21/2011 12:00	Method:	SW7471
Parent Sample #:	101871	Analyst:	GCE	Prep Analyst:	GCE		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.039	mg/kg	0.91				0.20	12	20

Lab Control Spike Soil

Analytical Run #:	80903	Analysis Date:	11/22/2011	Prep Batch #:	39448	Matrix:	SOLID
CTLab #:	104239	Analysis Time:	10:29	Prep Date/Time:	11/21/2011 12:00	Method:	SW7471
Parent Sample #:		Analyst:	GCE	Prep Analyst:	GCE		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.078	mg/kg			0.083	94	80 --- 120		

Method Blank Soil

Analytical Run #:	80903	Analysis Date:	11/22/2011	Prep Batch #:	39448	Matrix:	SOLID
CTLab #:	104238	Analysis Time:	10:30	Prep Date/Time:	11/21/2011 12:00	Method:	SW7471
Parent Sample #:		Analyst:	GCE	Prep Analyst:	GCE		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00415	mg/kg		U	0		00415		

Matrix Spike Duplicate Soil

Analytical Run #:	80903	Analysis Date:	11/22/2011	Prep Batch #:	39448	Matrix:	SOIL
CTLab #:	104237	Analysis Time:	10:58	Prep Date/Time:	11/21/2011 12:00	Method:	SW7471
Parent Sample #:	104236	Analyst:	GCE	Prep Analyst:	GCE		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.12	mg/kg	0.043		0.094	82	80 --- 120	1	20

Matrix Spike Soil

Analytical Run #:	80903	Analysis Date:	11/22/2011	Prep Batch #:	39448	Matrix:	SOIL
CTLab #:	104236	Analysis Time:	10:56	Prep Date/Time:	11/21/2011 12:00	Method:	SW7471
Parent Sample #:	101871	Analyst:	GCE	Prep Analyst:	GCE		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.12	mg/kg	0.043		0.095	81	80 --- 120		

Lab Control Spike Soil

Analytical Run #:	80782	Analysis Date:	11/17/2011	Prep Batch #:	39380	Matrix:	SOLID
CTLab #:	102995	Analysis Time:	10:04	Prep Date/Time:	11/16/2011 12:30	Method:	SW8260B
Parent Sample #:		Analyst:	APG	Prep Analyst:	APG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	452	ug/kg			500	90	70 --- 135		
1,1,2,2-Tetrachloroethane	464	ug/kg			500	93	55 --- 130		
1,1,2-Trichloroethane	453	ug/kg			500	91	60 --- 125		
1,1-Dichloroethane	449	ug/kg			500	90	75 --- 125		
1,1-Dichloroethene	445	ug/kg			500	89	65 --- 135		
1,2 Dichloroethane-d4	99.0	% Recovery			100	99.0	78 --- 118		
1,2-Dibromoethane	467	ug/kg			500	93	70 --- 125		
1,2-Dichloroethane	464	ug/kg			500	93	70 --- 135		
1,2-Dichloropropane	448	ug/kg			500	90	70 --- 120		
2-Butanone	4620	ug/kg			5000	92	30 --- 160		
2-Hexanone	4840	ug/kg			5000	97	45 --- 145		
4-Methyl-2-pentanone	4700	ug/kg			5000	94	45 --- 145		
Acetone	4680	ug/kg			5000	94	20 --- 160		
Benzene	449	ug/kg			500	90	75 --- 125		
Bromochloromethane	458	ug/kg			500	92	70 --- 125		
Bromodichloromethane	452	ug/kg			500	90	70 --- 130		
Bromofluorobenzene	100	% Recovery			100	100	85 --- 120		
Bromoform	458	ug/kg			500	92	55 --- 135		
Bromomethane	482	ug/kg			500	96	30 --- 160		
Carbon disulfide	881	ug/kg			1000	88	45 --- 160		
Carbon tetrachloride	449	ug/kg			500	90	65 --- 135		
Chlorobenzene	452	ug/kg			500	90	75 --- 125		
Chloroethane	392	ug/kg			500	78	40 --- 155		
Chloroform	443	ug/kg			500	89	70 --- 125		
Chloromethane	431	ug/kg			500	86	50 --- 130		
cis-1,2-Dichloroethene	433	ug/kg			500	87	65 --- 125		
cis-1,3-Dichloropropene	456	ug/kg			500	91	70 --- 125		
d8-Toluene	100	% Recovery			100	100	85 --- 115		
Dibromochloromethane	463	ug/kg			500	93	65 --- 130		
Dibromofluoromethane	99.0	% Recovery			100	99.0	79 --- 119		
Ethylbenzene	456	ug/kg			500	91	75 --- 125		
m & p-Xylene	934	ug/kg			1000	93	80 --- 125		
Methylene chloride	448	ug/kg			500	90	55 --- 140		
Naphthalene	458	ug/kg			500	92	40 --- 125		
o-Xylene	468	ug/kg			500	94	75 --- 125		
Styrene	463	ug/kg			500	93	75 --- 125		
Tetrachloroethene	442	ug/kg			500	88	65 --- 140		
Toluene	461	ug/kg			500	92	70 --- 125		
trans-1,2-Dichloroethene	452	ug/kg			500	90	65 --- 135		
trans-1,3-Dichloropropene	447	ug/kg			500	89	65 --- 125		
Trichloroethene	435	ug/kg			500	87	75 --- 125		
Trichlorofluoromethane	421	ug/kg			500	84	25 --- 185		

Lab Control Spike Soil

Analytical Run #:	80782	Analysis Date:	11/17/2011	Prep Batch #:	39380	Matrix:	SOLID
CTLab #:	102995	Analysis Time:	10:04	Prep Date/Time:	11/16/2011 12:30	Method:	SW8260B
Parent Sample #:		Analyst:	APG	Prep Analyst:	APG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Vinyl chloride	446	ug/kg			500	89	60 --- 125		

Method Blank Soil

Analytical Run #:	80782	Analysis Date:	11/17/2011	Prep Batch #:	39380	Matrix:	SOLID
CTLab #:	102994	Analysis Time:	10:43	Prep Date/Time:	11/16/2011 12:30	Method:	SW8260B
Parent Sample #:		Analyst:	APG	Prep Analyst:	APG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits			RPD	RPD Limit
1,1,1-Trichloroethane	25	ug/kg		U	0				25		
1,1,2,2-Tetrachloroethane	25	ug/kg		U	0				25		
1,1,2-Trichloroethane	25	ug/kg		U	0				25		
1,1-Dichloroethane	25	ug/kg		U	0				25		
1,1-Dichloroethene	25	ug/kg		U	0				25		
1,2 Dichloroethane-d4	101	% Recovery			100	101	78	---	118		
1,2-Dibromoethane	25	ug/kg		U	0				25		
1,2-Dichloroethane	25	ug/kg		U	0				25		
1,2-Dichloropropane	25	ug/kg		U	0				25		
2-Butanone	250	ug/kg		U	0				250		
2-Hexanone	250	ug/kg		U	0				250		
4-Methyl-2-pentanone	250	ug/kg		U	0				250		
Acetone	250	ug/kg		U	0				250		
Benzene	25	ug/kg		U	0				25		
Bromochloromethane	25	ug/kg		U	0				25		
Bromodichloromethane	25	ug/kg		U	0				25		
Bromofluorobenzene	101	% Recovery			100	101	85	---	120		
Bromoform	25	ug/kg		U	0				25		
Bromomethane	50	ug/kg		U	0				50		
Carbon disulfide	50	ug/kg		U	0				50		
Carbon tetrachloride	25	ug/kg		U	0				25		
Chlorobenzene	25	ug/kg		U	0				25		
Chloroethane	50	ug/kg		U	0				50		
Chloroform	25	ug/kg		U	0				25		
Chloromethane	50	ug/kg		U	0				50		
cis-1,2-Dichloroethene	25	ug/kg		U	0				25		
cis-1,3-Dichloropropene	25	ug/kg		U	0				25		
d8-Toluene	100	% Recovery			100	100	85	---	115		
Dibromochloromethane	25	ug/kg		U	0				25		
Dibromofluoromethane	98.0	% Recovery			100	98.0	79	---	119		
Ethylbenzene	25	ug/kg		U	0				25		
m & p-Xylene	50	ug/kg		U	0				50		
Methylene chloride	50	ug/kg		U	0				50		
Naphthalene	25	ug/kg		U	0				25		
o-Xylene	25	ug/kg		U	0				25		
Styrene	25	ug/kg		U	0				25		
Tetrachloroethene	25	ug/kg		U	0				25		
Toluene	25	ug/kg		U	0				25		
trans-1,2-Dichloroethene	25	ug/kg		U	0				25		
trans-1,3-Dichloropropene	25	ug/kg		U	0				25		
Trichloroethene	25	ug/kg		U	0				25		
Trichlorofluoromethane	25	ug/kg		U	0				25		

Method Blank Soil

Analytical Run #:	80782	Analysis Date:	11/17/2011	Prep Batch #:	39380	Matrix:	SOLID
CTLab #:	102994	Analysis Time:	10:43	Prep Date/Time:	11/16/2011 12:30	Method:	SW8260B
Parent Sample #:		Analyst:	APG	Prep Analyst:	APG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Vinyl chloride	25	ug/kg		U	0		25		

Matrix Spike Duplicate Soil

Analytical Run #:	80782	Analysis Date:	11/17/2011	Prep Batch #:	39380	Matrix:	SOIL
CTLab #:	102993	Analysis Time:	18:28	Prep Date/Time:	11/16/2011 12:30	Method:	SW8260B
Parent Sample #:	102992	Analyst:	APG	Prep Analyst:	APG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	332	ug/kg	BDL		348	95	70 --- 135	1	30
1,1,2,2-Tetrachloroethane	337	ug/kg	BDL		348	97	55 --- 130	0	30
1,1,2-Trichloroethane	328	ug/kg	BDL		348	94	60 --- 125	2	30
1,1-Dichloroethane	332	ug/kg	BDL		348	95	75 --- 125	1	30
1,1-Dichloroethene	316	ug/kg	BDL		348	91	65 --- 135	3	30
1,2 Dichloroethane-d4	102	% Recovery			100	102	78 --- 118		30
1,2-Dibromoethane	327	ug/kg	BDL		348	94	70 --- 125	0	30
1,2-Dichloroethane	328	ug/kg	BDL		348	94	70 --- 135	1	30
1,2-Dichloropropane	324	ug/kg	BDL		348	93	70 --- 120	0	30
2-Butanone	3160	ug/kg	BDL		3480	91	30 --- 160	0	30
2-Hexanone	3400	ug/kg	BDL		3480	98	45 --- 145	1	30
4-Methyl-2-pentanone	3420	ug/kg	BDL		3480	98	20 --- 145	2	30
Acetone	3040	ug/kg	69		3480	85	20 --- 160	4	30
Benzene	335	ug/kg	BDL		348	96	75 --- 125	0	30
Bromochloromethane	334	ug/kg	BDL		348	96	70 --- 125	3	30
Bromodichloromethane	336	ug/kg	BDL		348	97	70 --- 130	1	30
Bromofluorobenzene	101	% Recovery			100	101	85 --- 120		30
Bromoform	314	ug/kg	BDL		348	90	55 --- 135	0	30
Bromomethane	376	ug/kg	BDL		348	108	30 --- 160	25	30
Carbon disulfide	674	ug/kg	BDL		695	97	45 --- 160	3	30
Carbon tetrachloride	332	ug/kg	BDL		348	95	65 --- 135	3	30
Chlorobenzene	332	ug/kg	BDL		348	95	75 --- 125	1	30
Chloroethane	330	ug/kg	BDL		348	95	40 --- 155	3	30
Chloroform	330	ug/kg	BDL		348	95	70 --- 125	2	30
Chloromethane	299	ug/kg	BDL		348	86	50 --- 130	4	30
cis-1,2-Dichloroethene	336	ug/kg	BDL		348	97	65 --- 125	2	30
cis-1,3-Dichloropropene	321	ug/kg	BDL		348	92	70 --- 125	2	30
d8-Toluene	101	% Recovery			100	101	85 --- 115		30
Dibromochloromethane	333	ug/kg	BDL		348	96	65 --- 130	2	30
Dibromofluoromethane	98.0	% Recovery			100	98.0	79 --- 119		30
Ethylbenzene	331	ug/kg	BDL		348	95	75 --- 125	1	30
m & p-Xylene	679	ug/kg	BDL		695	98	80 --- 125	1	30
Methylene chloride	360	ug/kg	BDL		348	103	55 --- 140	2	30
Naphthalene	342	ug/kg	BDL		348	98	40 --- 125	4	30
o-Xylene	331	ug/kg	BDL		348	95	75 --- 125	0	30
Styrene	341	ug/kg	BDL		348	98	75 --- 125	0	30
Tetrachloroethene	322	ug/kg	BDL		348	93	65 --- 140	1	30
Toluene	342	ug/kg	BDL		348	98	70 --- 125	3	30
trans-1,2-Dichloroethene	321	ug/kg	BDL		348	92	65 --- 135	0	30
trans-1,3-Dichloropropene	295	ug/kg	BDL		348	85	65 --- 125	0	30
Trichloroethene	333	ug/kg	BDL		348	96	75 --- 125	0	30
Trichlorofluoromethane	338	ug/kg	BDL		348	97	25 --- 185	1	30

Matrix Spike Duplicate Soil

Analytical Run #:	80782	Analysis Date:	11/17/2011	Prep Batch #:	39380	Matrix:	SOIL
CTLab #:	102993	Analysis Time:	18:28	Prep Date/Time:	11/16/2011 12:30	Method:	SW8260B
Parent Sample #:	102992	Analyst:	APG	Prep Analyst:	APG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Vinyl chloride	305	ug/kg	BDL		348	88	60 --- 125	3	30

Matrix Spike Soil

Analytical Run #:	80782	Analysis Date:	11/17/2011	Prep Batch #:	39380	Matrix:	SOIL
CTLab #:	102992	Analysis Time:	17:49	Prep Date/Time:	11/16/2011 12:30	Method:	SW8260B
Parent Sample #:	101872	Analyst:	APG	Prep Analyst:	APG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	336	ug/kg	BDL		348	97	70 --- 135		
1,1,2,2-Tetrachloroethane	337	ug/kg	BDL		348	97	55 --- 130		
1,1,2-Trichloroethane	321	ug/kg	BDL		348	92	60 --- 125		
1,1-Dichloroethane	335	ug/kg	BDL		348	96	75 --- 125		
1,1-Dichloroethene	326	ug/kg	BDL		348	94	65 --- 135		
1,2 Dichloroethane-d4	100	% Recovery			100	100	78 --- 118		
1,2-Dibromoethane	328	ug/kg	BDL		348	94	70 --- 125		
1,2-Dichloroethane	332	ug/kg	BDL		348	95	70 --- 135		
1,2-Dichloropropane	323	ug/kg	BDL		348	93	70 --- 120		
2-Butanone	3160	ug/kg	BDL		3480	91	30 --- 160		
2-Hexanone	3370	ug/kg	BDL		3480	97	45 --- 145		
4-Methyl-2-pentanone	3360	ug/kg	BDL		3480	97	20 --- 145		
Acetone	3150	ug/kg	69		3480	89	20 --- 160		
Benzene	334	ug/kg	BDL		348	96	75 --- 125		
Bromochloromethane	323	ug/kg	BDL		348	93	70 --- 125		
Bromodichloromethane	332	ug/kg	BDL		348	95	70 --- 130		
Bromofluorobenzene	101	% Recovery			100	101	85 --- 120		
Bromoform	315	ug/kg	BDL		348	91	55 --- 135		
Bromomethane	291	ug/kg	BDL		348	84	30 --- 160		
Carbon disulfide	656	ug/kg	BDL		695	94	45 --- 160		
Carbon tetrachloride	322	ug/kg	BDL		348	93	65 --- 135		
Chlorobenzene	329	ug/kg	BDL		348	95	75 --- 125		
Chloroethane	341	ug/kg	BDL		348	98	40 --- 155		
Chloroform	323	ug/kg	BDL		348	93	70 --- 125		
Chloromethane	286	ug/kg	BDL		348	82	50 --- 130		
cis-1,2-Dichloroethene	328	ug/kg	BDL		348	94	65 --- 125		
cis-1,3-Dichloropropene	328	ug/kg	BDL		348	94	70 --- 125		
d8-Toluene	99.0	% Recovery			100	99.0	85 --- 115		
Dibromochloromethane	328	ug/kg	BDL		348	94	65 --- 130		
Dibromofluoromethane	99.0	% Recovery			100	99.0	79 --- 119		
Ethylbenzene	335	ug/kg	BDL		348	96	75 --- 125		
m & p-Xylene	685	ug/kg	BDL		695	99	80 --- 125		
Methylene chloride	365	ug/kg	BDL		348	105	55 --- 140		
Naphthalene	356	ug/kg	BDL		348	102	40 --- 125		
o-Xylene	331	ug/kg	BDL		348	95	75 --- 125		
Styrene	342	ug/kg	BDL		348	98	75 --- 125		
Tetrachloroethene	324	ug/kg	BDL		348	93	65 --- 140		
Toluene	332	ug/kg	BDL		348	95	70 --- 125		
trans-1,2-Dichloroethene	321	ug/kg	BDL		348	92	65 --- 135		
trans-1,3-Dichloropropene	295	ug/kg	BDL		348	85	65 --- 125		
Trichloroethene	333	ug/kg	BDL		348	96	75 --- 125		
Trichlorofluoromethane	341	ug/kg	BDL		348	98	25 --- 185		

Matrix Spike Soil

Analytical Run #:	80782	Analysis Date:	11/17/2011	Prep Batch #:	39380	Matrix:	SOIL
CTLab #:	102992	Analysis Time:	17:49	Prep Date/Time:	11/16/2011 12:30	Method:	SW8260B
Parent Sample #:	101872	Analyst:	APG	Prep Analyst:	APG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Vinyl chloride	296	ug/kg	BDL		348	85	60 --- 125		

Lab Control Spike Soil

Analytical Run #:	80887	Analysis Date:	11/21/2011	Prep Batch #:	39400	Matrix:	SOLID
CTLab #:	103253	Analysis Time:	13:43	Prep Date/Time:	11/17/2011 13:00	Method:	SW8082
Parent Sample #:		Analyst:	JJY	Prep Analyst:	SRT		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	400	ug/kg			500	80	40 --- 140		30
Aroclor-1260	426	ug/kg			500	85	60 --- 130		30
Surr: DCBP	94.4	% Recovery			100	94.4	60 --- 125		30

Method Blank Soil

Analytical Run #:	80887	Analysis Date:	11/21/2011	Prep Batch #:	39400	Matrix:	SOLID
CTLab #:	103252	Analysis Time:	13:25	Prep Date/Time:	11/17/2011 13:00	Method:	SW8082
Parent Sample #:		Analyst:	JJY	Prep Analyst:	SRT		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	50	ug/kg		U	0		50		
Aroclor-1221	50	ug/kg		U	0		50		
Aroclor-1232	50	ug/kg		U	0		50		
Aroclor-1242	50	ug/kg		U	0		50		
Aroclor-1248	50	ug/kg		U	0		50		
Aroclor-1254	50	ug/kg		U	0		50		
Aroclor-1260	50	ug/kg		U	0		50		
Aroclor-1262	50	ug/kg		U	0		50		
Aroclor-1268	50	ug/kg		U	0		50		
Surr: DCBP	89.7	% Recovery			100	89.7	60 --- 125		

Matrix Spike Duplicate Soil

Analytical Run #:	80887	Analysis Date:	11/21/2011	Prep Batch #:	39400	Matrix:	SOIL
CTLab #:	103251	Analysis Time:	17:36	Prep Date/Time:	11/17/2011 13:00	Method:	SW8082
Parent Sample #:	103250	Analyst:	JJY	Prep Analyst:	SRT		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	500	ug/kg	BDL		525	95	40 --- 140	7	30
Aroclor-1260	964	ug/kg	BDL		525	184	60 --- 130	4	30
Surr: DCBP	63.7	% Recovery			100	63.7	60 --- 125		

Matrix Spike Soil

Analytical Run #:	80887	Analysis Date:	11/21/2011	Prep Batch #:	39400	Matrix:	SOIL
CTLab #:	103250	Analysis Time:	17:18	Prep Date/Time:	11/17/2011 13:00	Method:	SW8082
Parent Sample #:	101871	Analyst:	JJY	Prep Analyst:	SRT		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	462	ug/kg	BDL		521	89	40 --- 140		
Aroclor-1260	917	ug/kg	BDL		521	176	60 --- 130		
Surr: DCBP	70.4	% Recovery			100	70.4	60 --- 125		

Lab Control Spike Soil

Analytical Run #:	80888	Analysis Date:	11/29/2011	Prep Batch #:	39401	Matrix:	SOLID
CTLab #:	103263	Analysis Time:	14:49	Prep Date/Time:	11/17/2011 13:00	Method:	SW8081
Parent Sample #:		Analyst:	JJY	Prep Analyst:	SRT		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
4,4'-DDD	39.4	ug/kg			40.0	98	30 --- 135		
4,4'-DDE	40.4	ug/kg			40.0	101	70 --- 125		
4,4'-DDT	41.2	ug/kg			40.0	103	45 --- 140		
Aldrin	41.4	ug/kg			40.0	104	45 --- 140		
alpha-BHC	42.1	ug/kg			40.0	105	60 --- 125		
alpha-Chlordane	39.9	ug/kg			40.0	100	65 --- 120		
beta-BHC	39.6	ug/kg			40.0	99	60 --- 125		
Chlordane (Technical)	209	ug/kg			250	84	50 --- 150		
delta-BHC	41.1	ug/kg			40.0	103	55 --- 130		
Dieldrin	40.3	ug/kg			40.0	101	65 --- 125		
Endosulfan I	38.2	ug/kg			40.0	96	15 --- 135		
Endosulfan II	38.9	ug/kg			40.0	97	35 --- 140		
Endosulfan sulfate	38.4	ug/kg			40.0	96	60 --- 135		
Endrin	41.9	ug/kg			40.0	105	60 --- 135		
Endrin aldehyde	27.4	ug/kg			40.0	68	35 --- 145		
Endrin ketone	37.7	ug/kg			40.0	94	65 --- 135		
gamma-Chlordane	38.9	ug/kg			40.0	97	65 --- 125		
Heptachlor	36.9	ug/kg			40.0	92	50 --- 140		
Heptachlor epoxide	40.5	ug/kg			40.0	101	65 --- 130		
Lindane	37.2	ug/kg			40.0	93	60 --- 125		
Methoxychlor	45.1	ug/kg			40.0	113	55 --- 145		
SURR:2,4,5,6-CL4-m-xylene	90.1	% Recovery			100	90.1	70 --- 125		
SURR:Decachlorobiphenyl	95.3	% Recovery			100	95.3	55 --- 130		
Toxaphene	239	ug/kg			250	96	50 --- 150		

Method Blank Soil

Analytical Run #:	80888	Analysis Date:	11/29/2011	Prep Batch #:	39401	Matrix:	SOLID
CTLab #:	103262	Analysis Time:	14:36	Prep Date/Time:	11/17/2011 13:00	Method:	SW8081
Parent Sample #:		Analyst:	JJY	Prep Analyst:	SRT		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
4,4'-DDD	1.2	ug/kg		U	0		1.2		
4,4'-DDE	1.2	ug/kg		U	0		1.2		
4,4'-DDT	1.2	ug/kg		U	0		1.2		
Aldrin	1.2	ug/kg		U	0		1.2		
alpha-BHC	1.2	ug/kg		U	0		1.2		
alpha-Chlordane	1.2	ug/kg		U	0		1.2		
beta-BHC	1.2	ug/kg		U	0		1.2		
Chlordane (Technical)	30	ug/kg		U	0		30		
delta-BHC	1.2	ug/kg		U	0		1.2		
Dieldrin	1.2	ug/kg		U	0		1.2		
Endosulfan I	1.2	ug/kg		U	0		1.2		
Endosulfan II	1.2	ug/kg		U	0		1.2		
Endosulfan sulfate	2.0	ug/kg		U	0		2.0		
Endrin	1.2	ug/kg		U	0		1.2		
Endrin aldehyde	2.0	ug/kg		U	0		2.0		
Endrin ketone	2.0	ug/kg		U	0		2.0		
gamma-Chlordane	1.2	ug/kg		U	0		1.2		
Heptachlor	1.2	ug/kg		U	0		1.2		
Heptachlor epoxide	1.2	ug/kg		U	0		1.2		
Lindane	1.2	ug/kg		U	0		1.2		
Methoxychlor	1.2	ug/kg		U	0		1.2		
SURR:2,4,5,6-CL4-m-xylene	88.8	ug/kg			100	88.8	70 --- 125		
SURR:Decachlorobiphenyl	88.8	% Recovery			100	88.8	55 --- 130		
Toxaphene	30	ug/kg		U	0		30		

Matrix Spike Duplicate Soil

Analytical Run #:	80888	Analysis Date:	11/30/2011	Prep Batch #:	39401	Matrix:	SOIL
CTLab #:	103261	Analysis Time:	20:54	Prep Date/Time:	11/17/2011 13:00	Method:	SW8081
Parent Sample #:	103260	Analyst:	JJY	Prep Analyst:	SRT		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
4,4'-DDD	39.9	ug/kg	BDL		42.0	95	30 --- 135	10	30
4,4'-DDE	79.3	ug/kg	BDL		42.0	189	70 --- 125	21	30
4,4'-DDT	75.6	ug/kg	29		42.0	111	45 --- 140	10	30
Aldrin	34.7	ug/kg	BDL		42.0	83	45 --- 140	4	30
alpha-BHC	38.3	ug/kg	BDL		42.0	91	60 --- 125	4	30
alpha-Chlordane	38.9	ug/kg	BDL		42.0	93	65 --- 120	0	30
beta-BHC	42.5	ug/kg	BDL		42.0	101	60 --- 125	8	30
delta-BHC	38.3	ug/kg	1.6		42.0	87	55 --- 130	3	30
Dieldrin	70.4	ug/kg	29		42.0	99	65 --- 125	8	30
Endosulfan I	179	ug/kg	170		42.0	21	15 --- 135	16	30
Endosulfan II	41.0	ug/kg	2.6		42.0	91	35 --- 140	7	30
Endosulfan sulfate	32.0	ug/kg	BDL		42.0	76	60 --- 135	11	30
Endrin	49.4	ug/kg	7.9		42.0	99	60 --- 135	3	30
Endrin aldehyde	74.6	ug/kg	BDL		42.0	178	35 --- 145	24	30
Endrin ketone	39.4	ug/kg	BDL		42.0	94	65 --- 135	5	30
gamma-Chlordane	68.8	ug/kg	BDL		42.0	164	65 --- 125	6	30
Heptachlor	68.3	ug/kg	BDL		42.0	163	50 --- 140	0	30
Heptachlor epoxide	47.8	ug/kg	BDL		42.0	114	65 --- 130	3	30
Lindane	37.3	ug/kg	BDL		42.0	89	65 --- 125	0	30
Methoxychlor	103	ug/kg	50		42.0	126	55 --- 145	22	30
SURR:2,4,5,6-CL4-m-xylene	77.7	% Recovery			100	77.7	70 --- 125		
SURR:Decachlorobiphenyl	87.8	% Recovery			100	87.8	55 --- 130		

Matrix Spike Soil

Analytical Run #:	80888	Analysis Date:	11/30/2011	Prep Batch #:	39401	Matrix:	SOIL
CTLab #:	103260	Analysis Time:	20:41	Prep Date/Time:	11/17/2011 13:00	Method:	SW8081
Parent Sample #:	101871	Analyst:	JJY	Prep Analyst:	SRT		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
4,4'-DDD	43.8	ug/kg	BDL		41.7	105	30 --- 135		
4,4'-DDE	63.6	ug/kg	BDL		41.7	153	70 --- 125		
4,4'-DDT	67.7	ug/kg	29		41.7	93	45 --- 140		
Aldrin	36.0	ug/kg	BDL		41.7	86	45 --- 140		
alpha-BHC	39.6	ug/kg	BDL		41.7	95	60 --- 125		
alpha-Chlordane	38.6	ug/kg	BDL		41.7	93	65 --- 120		
beta-BHC	45.9	ug/kg	BDL		41.7	110	60 --- 125		
delta-BHC	39.1	ug/kg	1.6		41.7	90	55 --- 130		
Dieldrin	64.6	ug/kg	29		41.7	85	65 --- 125		
Endosulfan I	209	ug/kg	170		41.7	94	15 --- 135		
Endosulfan II	38.0	ug/kg	2.6		41.7	85	35 --- 140		
Endosulfan sulfate	35.4	ug/kg	BDL		41.7	85	60 --- 135		
Endrin	47.4	ug/kg	7.9		41.7	95	60 --- 135		
Endrin aldehyde	58.4	ug/kg	BDL		41.7	140	35 --- 145		
Endrin ketone	41.2	ug/kg	BDL		41.7	99	65 --- 135		
gamma-Chlordane	64.1	ug/kg	BDL		41.7	154	65 --- 125		
Heptachlor	67.7	ug/kg	BDL		41.7	162	50 --- 140		
Heptachlor epoxide	45.9	ug/kg	BDL		41.7	110	65 --- 130		
Lindane	37.0	ug/kg	BDL		41.7	89	65 --- 125		
Methoxychlor	82.3	ug/kg	50		41.7	77	55 --- 145		
SURR:2,4,5,6-CL4-m-xylene	82.5	% Recovery			100	82.5	70 --- 125		
SURR:Decachlorobiphenyl	79.4	% Recovery			100	79.4	55 --- 130		

Lab Control Spike Soil

Analytical Run #:	80912	Analysis Date:	11/22/2011	Prep Batch #:	39404	Matrix:	SOLID
CTLab #:	103276	Analysis Time:	14:26	Prep Date/Time:	11/17/2011 14:00	Method:	SW8330B
Parent Sample #:		Analyst:	red	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	118	% Recovery			100	118	74 --- 128		
1,3,5-Trinitrobenzene	1.77	mg/kg			2.00	88	75 --- 122		
1,3-Dinitrobenzene	1.93	mg/kg			2.00	96	78 --- 116		
2,4,6-Trinitrotoluene	1.44	mg/kg			2.00	72	68 --- 126		
2,4-Dinitrotoluene	1.96	mg/kg			2.00	98	74 --- 124		
2,6-Dinitrotoluene	1.87	mg/kg			2.00	94	71 --- 122		
2-Amino-4,6-dinitrotoluene	1.91	mg/kg			2.00	96	74 --- 118		
2-Nitrotoluene	1.85	mg/kg			2.00	92	76 --- 117		
3-Nitrotoluene	1.87	mg/kg			2.00	94	76 --- 119		
4-Amino-2,6-dinitrotoluene	1.41	mg/kg			2.00	70	69 --- 125		
4-Nitrotoluene	1.83	mg/kg			2.00	92	75 --- 120		
HMX	1.91	mg/kg			2.00	96	69 --- 120		
Nitrobenzene	1.90	mg/kg			2.00	95	80 --- 120		
Nitroglycerin	3.30	mg/kg			4.00	82	66 --- 128		
PETN	3.36	mg/kg			4.00	84	68 --- 128		
RDX	1.81	mg/kg			2.00	90	69 --- 123		
Tetryl	1.04	mg/kg			2.00	52	1 --- 157		

Method Blank Soil

Analytical Run #:	80912	Analysis Date:	11/22/2011	Prep Batch #:	39404	Matrix:	SOLID
CTLab #:	103275	Analysis Time:	14:08	Prep Date/Time:	11/17/2011 14:00	Method:	SW8330B
Parent Sample #:		Analyst:	red	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	95.9	% Recovery			100	95.9	74 --- 128		
1,3,5-Trinitrobenzene	0.25	mg/kg		U	0		0.25		
1,3-Dinitrobenzene	0.20	mg/kg		U	0		0.20		
2,4,6-Trinitrotoluene	0.20	mg/kg		U	0		0.20		
2,4-Dinitrotoluene	0.25	mg/kg		U	0		0.25		
2,6-Dinitrotoluene	0.25	mg/kg		U	0		0.25		
2-Amino-4,6-dinitrotoluene	0.20	mg/kg		U	0		0.20		
2-Nitrotoluene	0.25	mg/kg		U	0		0.25		
3-Nitrotoluene	0.20	mg/kg		U	0		0.20		
4-Amino-2,6-dinitrotoluene	0.20	mg/kg		U	0		0.20		
4-Nitrotoluene	0.20	mg/kg		U	0		0.20		
HMX	0.20	mg/kg		U	0		0.20		
Nitrobenzene	0.20	mg/kg		U	0		0.20		
Nitroglycerin	1.0	mg/kg		U	0		1.0		
PETN	1.0	mg/kg		U	0		1.0		
RDX	0.25	mg/kg		U	0		0.25		
Tetryl	0.20	mg/kg		U	0		0.20		

Matrix Spike Duplicate Soil

Analytical Run #:	80912	Analysis Date:	11/22/2011	Prep Batch #:	39404	Matrix:	SOIL
CTLab #:	103273	Analysis Time:	18:42	Prep Date/Time:	11/17/2011 14:00	Method:	SW8330B
Parent Sample #:	103272	Analyst:	red	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	76.1	% Recovery			100	76.1	74 --- 128		
1,3,5-Trinitrobenzene	1.83	mg/kg	BDL		2.01	91	75 --- 122	3	18
1,3-Dinitrobenzene	1.90	mg/kg	BDL		2.01	95	78 --- 116	3	21
2,4,6-Trinitrotoluene	6.76	mg/kg	4.5		2.01	112	68 --- 126	1	26
2,4-Dinitrotoluene	1.96	mg/kg	BDL		2.01	98	74 --- 124	5	34
2,6-Dinitrotoluene	1.57	mg/kg	BDL		2.01	78	71 --- 122	4	28
2-Amino-4,6-dinitrotoluene	2.35	mg/kg	0.44		2.01	95	74 --- 118	6	19
2-Nitrotoluene	1.88	mg/kg	BDL		2.01	94	76 --- 117	6	17
3-Nitrotoluene	1.97	mg/kg	BDL		2.01	98	76 --- 119	6	20
4-Amino-2,6-dinitrotoluene	2.16	mg/kg	0.74		2.01	71	69 --- 125	3	25
4-Nitrotoluene	1.91	mg/kg	BDL		2.01	95	75 --- 120	9	22
HMX	1.71	mg/kg	BDL		2.01	85	69 --- 120	2	24
Nitrobenzene	1.91	mg/kg	BDL		2.01	95	80 --- 120	1	21
Nitroglycerin	7.28	mg/kg	BDL		8.04	91	66 --- 128	13	24
PETN	7.06	mg/kg	BDL		8.04	88	68 --- 128	3	22
RDX	1.74	mg/kg	BDL		2.01	87	69 --- 123	4	32
Tetryl	1.37	mg/kg	BDL		2.01	68	1 --- 157	2	27

Matrix Spike Soil

Analytical Run #:	80912	Analysis Date:	11/22/2011	Prep Batch #:	39404	Matrix:	SOIL
CTLab #:	103272	Analysis Time:	18:24	Prep Date/Time:	11/17/2011 14:00	Method:	SW8330B
Parent Sample #:	101871	Analyst:	red	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	73.8	% Recovery			100	73.8	74 --- 128		
1,3,5-Trinitrobenzene	1.76	mg/kg	BDL		1.99	88	75 --- 122		
1,3-Dinitrobenzene	1.83	mg/kg	BDL		1.99	92	78 --- 116		
2,4,6-Trinitrotoluene	6.49	mg/kg	4.5		1.99	100	68 --- 126		
2,4-Dinitrotoluene	1.85	mg/kg	BDL		1.99	93	74 --- 124		
2,6-Dinitrotoluene	1.50	mg/kg	BDL		1.99	75	71 --- 122		
2-Amino-4,6-dinitrotoluene	2.19	mg/kg	0.44		1.99	88	74 --- 118		
2-Nitrotoluene	1.75	mg/kg	BDL		1.99	88	76 --- 117		
3-Nitrotoluene	1.83	mg/kg	BDL		1.99	92	76 --- 119		
4-Amino-2,6-dinitrotoluene	2.20	mg/kg	0.74		1.99	73	69 --- 125		
4-Nitrotoluene	1.73	mg/kg	BDL		1.99	87	75 --- 120		
HMX	1.66	mg/kg	BDL		1.99	83	69 --- 120		
Nitrobenzene	1.88	mg/kg	BDL		1.99	94	80 --- 120		
Nitroglycerin	6.33	mg/kg	BDL		7.98	79	66 --- 128		
PETN	6.78	mg/kg	BDL		7.98	85	68 --- 128		
RDX	1.66	mg/kg	BDL		1.99	83	69 --- 123		
Tetryl	1.38	mg/kg	BDL		1.99	69	1 --- 157		

Lab Control Spike Soil

Analytical Run #:	80932	Analysis Date:	11/23/2011	Prep Batch #:	39405	Matrix:	SOLID
CTLab #:	103287	Analysis Time:	10:37	Prep Date/Time:	11/22/2011 09:45	Method:	SW8330B
Parent Sample #:		Analyst:	red	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	69.3	% Recovery			100	69.3	50 --- 150		
Nitroguanidine	1.65	mg/kg			1.96	84	50 --- 150		30

Method Blank Soil

Analytical Run #:	80932	Analysis Date:	11/23/2011	Prep Batch #:	39405	Matrix:	SOLID
CTLab #:	103286	Analysis Time:	10:29	Prep Date/Time:	11/22/2011 09:45	Method:	SW8330B
Parent Sample #:		Analyst:	red	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	85.7	% Recovery			100	85.7	50 --- 150		
Nitroguanidine	0.125	mg/kg		U	0		0.125		

Matrix Spike Duplicate Soil

Analytical Run #:	80932	Analysis Date:	11/23/2011	Prep Batch #:	39405	Matrix:	SOIL
CTLab #:	103284	Analysis Time:	12:26	Prep Date/Time:	11/22/2011 09:45	Method:	SW8330B
Parent Sample #:	103283	Analyst:	red	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	78.1	% Recovery			100	78.1	50 --- 150		
Nitroguanidine	2.19	mg/kg	0.12		2.02	102	50 --- 150	1	30

Matrix Spike Soil

Analytical Run #:	80932	Analysis Date:	11/23/2011	Prep Batch #:	39405	Matrix:	SOIL
CTLab #:	103283	Analysis Time:	12:18	Prep Date/Time:	11/22/2011 09:45	Method:	SW8330B
Parent Sample #:	101871	Analyst:	red	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	78.0	% Recovery			100	78.0	50 --- 150		
Nitroguanidine	2.15	mg/kg	0.12		2.00	102	50 --- 150		

Lab Control Spike Soil

Analytical Run #:	80956	Analysis Date:	11/28/2011	Prep Batch #:	39403	Matrix:	SOLID
CTLab #:	103270	Analysis Time:	14:47	Prep Date/Time:	11/21/2011 13:30	Method:	SW8270
Parent Sample #:		Analyst:	RPN	Prep Analyst:	SRT		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	1450	ug/kg			2000	72	45 --- 110		30
1,2-Dichlorobenzene	1410	ug/kg			2000	70	45 --- 95		30
1,3-Dichlorobenzene	1360	ug/kg			2000	68	40 --- 100		30
1,4-Dichlorobenzene	1400	ug/kg			2000	70	35 --- 105		30
2,4,5-Trichlorophenol	1440	ug/kg			2000	72	50 --- 110		30
2,4,6-Trichlorophenol	1530	ug/kg			2000	76	45 --- 110		30
2,4-Dichlorophenol	1500	ug/kg			2000	75	45 --- 110		30
2,4-Dimethylphenol	1340	ug/kg			2000	67	30 --- 105		30
2,4-Dinitrophenol	873	ug/kg			2000	44	15 --- 130		30
2,4-Dinitrotoluene	1490	ug/kg			2000	74	50 --- 115		30
2,6-Dinitrotoluene	1480	ug/kg			2000	74	50 --- 110		30
2-Chloronaphthalene	1450	ug/kg			2000	72	45 --- 105		30
2-Chlorophenol	1470	ug/kg			2000	74	45 --- 105		30
2-Methylnaphthalene	1450	ug/kg			2000	72	45 --- 105		30
2-Methylphenol	1400	ug/kg			2000	70	40 --- 105		30
2-Nitroaniline	1560	ug/kg			2000	78	45 --- 120		30
2-Nitrophenol	1510	ug/kg			2000	76	40 --- 110		30
3 & 4-Methylphenol	1510	ug/kg			2000	76	40 --- 105		30
3,3'-Dichlorobenzidine	1880	ug/kg			2000	94	10 --- 130		30
3-Nitroaniline	1220	ug/kg			2000	61	25 --- 110		30
4,6-Dinitro-2-methylphenol	1250	ug/kg			2000	62	30 --- 135		30
4-Bromophenyl-phenyl ether	1490	ug/kg			2000	74	45 --- 115		30
4-Chloro-3-methylphenol	1530	ug/kg			2000	76	45 --- 115		30
4-Chloroaniline	1050	ug/kg			2000	52	10 --- 95		30
4-Chlorophenyl-phenyl ether	1420	ug/kg			2000	71	45 --- 110		30
4-Nitroaniline	1780	ug/kg			2000	89	35 --- 115		30
4-Nitrophenol	1530	ug/kg			2000	76	15 --- 140		30
Acenaphthene	1490	ug/kg			2000	74	45 --- 110		30
Acenaphthylene	1480	ug/kg			2000	74	45 --- 105		30
Anthracene	1550	ug/kg			2000	78	55 --- 105		30
Benzo(a)anthracene	1510	ug/kg			2000	76	50 --- 110		30
Benzo(a)pyrene	1500	ug/kg			2000	75	50 --- 110		30
Benzo(b)fluoranthene	1500	ug/kg			2000	75	45 --- 115		30
Benzo(g,h,i)perylene	1460	ug/kg			2000	73	40 --- 125		30
Benzo(k)fluoranthene	1470	ug/kg			2000	74	45 --- 125		30
Benzoic acid	409	ug/kg			2000	20	0 --- 110		30
Benzyl alcohol	1390	ug/kg			2000	70	20 --- 125		30
Bis(2-chloroethoxy)methane	1490	ug/kg			2000	74	45 --- 110		30
Bis(2-chloroethyl)ether	1360	ug/kg			2000	68	40 --- 105		30
Bis(2-chloroisopropyl)ether	1530	ug/kg			2000	76	20 --- 115		30
Butylbenzylphthalate	1620	ug/kg			2000	81	50 --- 125		30
Carbazole	1730	ug/kg			2000	86	45 --- 115		30

Lab Control Spike Soil

Analytical Run #:	80956	Analysis Date:	11/28/2011	Prep Batch #:	39403	Matrix:	SOLID
CTLab #:	103270	Analysis Time:	14:47	Prep Date/Time:	11/21/2011 13:30	Method:	SW8270
Parent Sample #:		Analyst:	RPN	Prep Analyst:	SRT		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Chrysene	1540	ug/kg			2000	77	55 --- 110		30
Di-n-butylphthalate	1650	ug/kg			2000	82	55 --- 110		30
Di-n-octylphthalate	1650	ug/kg			2000	82	40 --- 130		30
Dibenzo(a,h)anthracene	1470	ug/kg			2000	74	40 --- 125		30
Dibenzofuran	1390	ug/kg			2000	70	50 --- 105		30
Diethylphthalate	1490	ug/kg			2000	74	50 --- 115		30
Dimethylphthalate	1450	ug/kg			2000	72	50 --- 110		30
Fluoranthene	1550	ug/kg			2000	78	55 --- 115		30
Fluorene	1490	ug/kg			2000	74	50 --- 110		30
Hexachlorobenzene	1530	ug/kg			2000	76	45 --- 120		30
Hexachlorobutadiene	1530	ug/kg			2000	76	40 --- 115		30
Hexachlorocyclopentadiene	1600	ug/kg			2000	80	30 --- 137		30
Hexachloroethane	1420	ug/kg			2000	71	35 --- 110		30
Indeno(1,2,3-cd)pyrene	1490	ug/kg			2000	74	40 --- 120		30
Isophorone	1470	ug/kg			2000	74	45 --- 110		30
N-Nitroso-di-n-propylamine	1470	ug/kg			2000	74	40 --- 115		30
N-Nitrosodiphenylamine & Diphn	3140	ug/kg			4000	78	50 --- 115		30
Naphthalene	1460	ug/kg			2000	73	40 --- 105		30
Nitrobenzene	1490	ug/kg			2000	74	40 --- 115		30
Pentachlorophenol	1440	ug/kg			2000	72	25 --- 120		30
Phenanthrene	1560	ug/kg			2000	78	50 --- 110		30
Phenol	1570	ug/kg			2000	78	40 --- 100		30
Pyrene	1530	ug/kg			2000	76	45 --- 125		30
Surr: 2,4,6-Tribromophenol	77.8	% Recovery			100	77.8	35 --- 125		
Surr: 2-Fluorobiphenyl	71.5	% Recovery			100	71.5	45 --- 105		
Surr: 2-Fluorophenol	62.9	% Recovery			100	62.9	35 --- 105		
Surr: Nitrobenzene-d5	75.9	% Recovery			100	75.9	35 --- 100		
Surr: o-terphenyl-d14	82.9	% Recovery			100	82.9	30 --- 125		
Surr: Phenol-d5	72.3	% Recovery			100	72.3	40 --- 100		
Surr: Terphenyl-d14	79.2	% Recovery			100	79.2	30 --- 125		

Method Blank Soil

Analytical Run #:	80956	Analysis Date:	11/28/2011	Prep Batch #:	39403	Matrix:	SOLID
CTLab #:	103269	Analysis Time:	15:55	Prep Date/Time:	11/21/2011 13:30	Method:	SW8270
Parent Sample #:		Analyst:	RPN	Prep Analyst:	SRT		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	60	ug/kg		U	0		60		
1,2-Dichlorobenzene	60	ug/kg		U	0		60		
1,3-Dichlorobenzene	60	ug/kg		U	0		60		
1,4-Dichlorobenzene	60	ug/kg		U	0		60		
2,4,5-Trichlorophenol	300	ug/kg		U	0		300		
2,4,6-Trichlorophenol	300	ug/kg		U	0		300		
2,4-Dichlorophenol	300	ug/kg		U	0		300		
2,4-Dimethylphenol	300	ug/kg		U	0		300		
2,4-Dinitrophenol	1000	ug/kg		U	0		1000		
2,4-Dinitrotoluene	60	ug/kg		U	0		60		
2,6-Dinitrotoluene	60	ug/kg		U	0		60		
2-Chloronaphthalene	60	ug/kg		U	0		60		
2-Chlorophenol	1000	ug/kg		U	0		1000		
2-Methylnaphthalene	1.5	ug/kg		U	0		1.5		
2-Methylphenol	1000	ug/kg		U	0		1000		
2-Nitroaniline	60	ug/kg		U	0		60		
2-Nitrophenol	500	ug/kg		U	0		500		
3 & 4-Methylphenol	1800	ug/kg		U	0		1800		
3,3'-Dichlorobenzidine	250	ug/kg		U	0		250		
3-Nitroaniline	60	ug/kg		U	0		60		
4,6-Dinitro-2-methylphenol	500	ug/kg		U	0		500		
4-Bromophenyl-phenyl ether	60	ug/kg		U	0		60		
4-Chloro-3-methylphenol	1000	ug/kg		U	0		1000		
4-Chloroaniline	100	ug/kg		U	0		100		
4-Chlorophenyl-phenyl ether	100	ug/kg		U	0		100		
4-Nitroaniline	60	ug/kg		U	0		60		
4-Nitrophenol	1000	ug/kg		U	0		1000		
Acenaphthene	1.5	ug/kg		U	0		1.5		
Acenaphthylene	1.5	ug/kg		U	0		1.5		
Anthracene	0.75	ug/kg		U	0		0.75		
Benzo(a)anthracene	1.5	ug/kg		U	0		1.5		
Benzo(a)pyrene	1.10	ug/kg			0		0.75		
Benzo(b)fluoranthene	0.900	ug/kg			0		0.75		
Benzo(g,h,i)perylene	1.5	ug/kg		U	0		1.5		
Benzo(k)fluoranthene	0.900	ug/kg			0		0.75		
Benzoic acid	1500	ug/kg		U	0		1500		
Benzyl alcohol	200	ug/kg		U	0		200		
Bis(2-chloroethoxy)methane	60	ug/kg		U	0		60		
Bis(2-chloroethyl)ether	60	ug/kg		U	0		60		
Bis(2-chloroisopropyl)ether	60	ug/kg		U	0		60		
Butylbenzylphthalate	200	ug/kg		U	0		200		
Carbazole	60	ug/kg		U	0		60		

Method Blank Soil

Analytical Run #:	80956	Analysis Date:	11/28/2011	Prep Batch #:	39403	Matrix:	SOLID
CTLab #:	103269	Analysis Time:	15:55	Prep Date/Time:	11/21/2011 13:30	Method:	SW8270
Parent Sample #:		Analyst:	RPN	Prep Analyst:	SRT		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Chrysene	0.75	ug/kg		U	0		0.75		
Di-n-butylphthalate	200	ug/kg		U	0		200		
Di-n-octylphthalate	100	ug/kg		U	0		100		
Dibenzo(a,h)anthracene	1.5	ug/kg		U	0		1.5		
Dibenzofuran	60	ug/kg		U	0		60		
Diethylphthalate	200	ug/kg		U	0		200		
Dimethylphthalate	200	ug/kg		U	0		200		
Fluoranthene	0.75	ug/kg		U	0		0.75		
Fluorene	0.75	ug/kg		U	0		0.75		
Hexachlorobenzene	60	ug/kg		U	0		60		
Hexachlorobutadiene	200	ug/kg		U	0		200		
Hexachlorocyclopentadiene	100	ug/kg		U	0		100		
Hexachloroethane	60	ug/kg		U	0		60		
Indeno(1,2,3-cd)pyrene	1.5	ug/kg		U	0		1.5		
Isophorone	100	ug/kg		U	0		100		
N-Nitroso-di-n-propylamine	200	ug/kg		U	0		200		
N-Nitrosodiphenylamine & Diphn	200	ug/kg		U	0		200		
Naphthalene	1.5	ug/kg		U	0		1.5		
Nitrobenzene	100	ug/kg		U	0		100		
Pentachlorophenol	500	ug/kg		U	0		500		
Phenanthrene	1.5	ug/kg		U	0		1.5		
Phenol	300	ug/kg		U	0		300		
Pyrene	0.75	ug/kg		U	0		0.75		
Surr: 2,4,6-Tribromophenol	75.0	% Recovery			100	75.0	35 --- 125		
Surr: 2-Fluorobiphenyl	73.8	% Recovery			100	73.8	45 --- 105		
Surr: 2-Fluorophenol	62.7	% Recovery			100	62.7	35 --- 105		
Surr: Nitrobenzene-d5	77.2	% Recovery			100	77.2	35 --- 100		
Surr: o-terphenyl-d14	82.9	% Recovery			100	82.9	30 --- 125		
Surr: Phenol-d5	69.5	% Recovery			100	69.5	40 --- 100		
Surr: Terphenyl-d14	79.2	% Recovery			100	79.2	30 --- 125		

Matrix Spike Duplicate Soil

Analytical Run #:	80956	Analysis Date:	11/28/2011	Prep Batch #:	39403	Matrix:	SOIL
CTLab #:	103268	Analysis Time:	21:33	Prep Date/Time:	11/21/2011 13:30	Method:	SW8270
Parent Sample #:	103266	Analyst:	RPN	Prep Analyst:	SRT		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	1160	ug/kg	BDL		2090	56	45 --- 110	5	30
1,2-Dichlorobenzene	1210	ug/kg	BDL		2090	58	45 --- 95	4	30
1,3-Dichlorobenzene	1160	ug/kg	BDL		2090	56	40 --- 100	3	30
1,4-Dichlorobenzene	1160	ug/kg	BDL		2090	56	35 --- 105	2	30
2,4,5-Trichlorophenol	1350	ug/kg	BDL		2090	65	50 --- 110	0	30
2,4,6-Trichlorophenol	1320	ug/kg	BDL		2090	63	45 --- 110	1	30
2,4-Dichlorophenol	1330	ug/kg	BDL		2090	64	45 --- 110	3	30
2,4-Dimethylphenol	1350	ug/kg	BDL		2090	65	30 --- 105	7	30
2,4-Dinitrophenol	727	ug/kg	BDL		2090	35	15 --- 130	8	30
2,4-Dinitrotoluene	1340	ug/kg	BDL		2090	64	50 --- 115	2	30
2,6-Dinitrotoluene	1330	ug/kg	BDL		2090	64	50 --- 110	0	30
2-Chloronaphthalene	1300	ug/kg	BDL		2090	62	45 --- 105	2	30
2-Chlorophenol	1240	ug/kg	BDL		2090	59	45 --- 105	2	30
2-Methylnaphthalene	1440	ug/kg	38		2090	67	45 --- 105	4	30
2-Methylphenol	1410	ug/kg	BDL		2090	67	40 --- 105	4	30
2-Nitroaniline	1330	ug/kg	BDL		2090	64	45 --- 120	0	30
2-Nitrophenol	1320	ug/kg	BDL		2090	63	40 --- 110	2	30
3 & 4-Methylphenol	1390	ug/kg	BDL		2090	67	40 --- 105	3	30
3,3'-Dichlorobenzidine	0	ug/kg	BDL		2090	0	10 --- 130	0	30
3-Nitroaniline	508	ug/kg	BDL		2090	24	25 --- 110	15	30
4,6-Dinitro-2-methylphenol	943	ug/kg	BDL		2090	45	30 --- 135	6	30
4-Bromophenyl-phenyl ether	1330	ug/kg	BDL		2090	64	45 --- 115	1	30
4-Chloro-3-methylphenol	1410	ug/kg	BDL		2090	67	45 --- 115	7	30
4-Chloroaniline	172	ug/kg	BDL		2090	8	10 --- 95	33	30
4-Chlorophenyl-phenyl ether	1290	ug/kg	BDL		2090	62	45 --- 110	0	30
4-Nitroaniline	1050	ug/kg	BDL		2090	50	35 --- 115	1	30
4-Nitrophenol	1380	ug/kg	BDL		2090	66	15 --- 140	1	30
Acenaphthene	1560	ug/kg	53		2090	72	45 --- 110	2	30
Acenaphthylene	1440	ug/kg	10		2090	68	45 --- 105	3	30
Anthracene	1600	ug/kg	120		2090	71	55 --- 105	3	30
Benzo(a)anthracene	1710	ug/kg	280		2090	68	50 --- 110	4	30
Benzo(a)pyrene	1520	ug/kg	240		2090	61	50 --- 110	8	30
Benzo(b)fluoranthene	2020	ug/kg	410		2090	77	45 --- 115	10	30
Benzo(g,h,i)perylene	502	ug/kg	80		2090	20	40 --- 125	7	30
Benzo(k)fluoranthene	1470	ug/kg	130		2090	64	45 --- 125	6	30
Benzoic acid	1270	ug/kg	850		2090	20	0 --- 110	1	30
Benzyl alcohol	1630	ug/kg	BDL		2090	78	20 --- 125	5	30
Bis(2-chloroethoxy)methane	1310	ug/kg	BDL		2090	63	45 --- 110	0	30
Bis(2-chloroethyl)ether	1200	ug/kg	BDL		2090	57	40 --- 105	3	30
Bis(2-chloroisopropyl)ether	1330	ug/kg	BDL		2090	64	20 --- 115	0	30
Butylbenzylphthalate	1250	ug/kg	BDL		2090	60	50 --- 125	5	30
Carbazole	1600	ug/kg	70		2090	73	45 --- 115	1	30

Matrix Spike Duplicate Soil

Analytical Run #:	80956	Analysis Date:	11/28/2011	Prep Batch #:	39403	Matrix:	SOIL
CTLab #:	103268	Analysis Time:	21:33	Prep Date/Time:	11/21/2011 13:30	Method:	SW8270
Parent Sample #:	103266	Analyst:	RPN	Prep Analyst:	SRT		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Chrysene	1710	ug/kg	310		2090	67	55 --- 110	3	30
Di-n-butylphthalate	1330	ug/kg	BDL		2090	64	55 --- 110	3	30
Di-n-octylphthalate	1230	ug/kg	BDL		2090	59	40 --- 130	3	30
Dibenzo(a,h)anthracene	664	ug/kg	27		2090	30	40 --- 125	6	30
Dibenzofuran	1320	ug/kg	34		2090	62	50 --- 105	1	30
Diethylphthalate	1300	ug/kg	BDL		2090	62	50 --- 115	2	30
Dimethylphthalate	1240	ug/kg	BDL		2090	59	50 --- 110	4	30
Fluoranthene	2740	ug/kg	720		2090	97	55 --- 115	12	30
Fluorene	1560	ug/kg	62		2090	72	50 --- 110	2	30
Hexachlorobenzene	1320	ug/kg	BDL		2090	63	45 --- 120	1	30
Hexachlorobutadiene	1340	ug/kg	BDL		2090	64	40 --- 115	4	30
Hexachlorocyclopentadiene	293	ug/kg	BDL		2090	14	30 --- 137	9	30
Hexachloroethane	1140	ug/kg	BDL		2090	55	35 --- 110	1	30
Indeno(1,2,3-cd)pyrene	704	ug/kg	120		2090	28	40 --- 120	2	30
Isophorone	1330	ug/kg	BDL		2090	64	45 --- 110	2	30
N-Nitroso-di-n-propylamine	1360	ug/kg	BDL		2090	65	40 --- 115	3	30
N-Nitrosodiphenylamine & Diphn	2920	ug/kg	BDL		4190	70	50 --- 115	0	30
Naphthalene	1430	ug/kg	41		2090	66	40 --- 105	9	30
Nitrobenzene	1330	ug/kg	BDL		2090	64	40 --- 115	2	30
Pentachlorophenol	811	ug/kg	BDL		2090	39	25 --- 120	23	30
Phenanthrene	2410	ug/kg	500		2090	91	50 --- 110	12	30
Phenol	1280	ug/kg	BDL		2090	61	40 --- 100	1	30
Pyrene	2350	ug/kg	540		2090	87	45 --- 125	10	30
Surr: 2,4,6-Tribromophenol	62.7	% Recovery			100	62.7	35 --- 125		
Surr: 2-Fluorobiphenyl	59.6	% Recovery			100	59.6	45 --- 105		
Surr: 2-Fluorophenol	48.0	% Recovery			100	48.0	35 --- 105		
Surr: Nitrobenzene-d5	62.4	% Recovery			100	62.4	35 --- 100		
Surr: o-terphenyl-d14	66.0	% Recovery			100	66.0	30 --- 125		
Surr: Phenol-d5	58.0	% Recovery			100	58.0	40 --- 100		
Surr: Terphenyl-d14	59.5	% Recovery			100	59.5	30 --- 125		

Matrix Spike Soil

Analytical Run #:	80956	Analysis Date:	11/28/2011	Prep Batch #:	39403	Matrix:	SOIL
CTLab #:	103266	Analysis Time:	21:10	Prep Date/Time:	11/21/2011 13:30	Method:	SW8270
Parent Sample #:	101871	Analyst:	RPN	Prep Analyst:	SRT		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	1220	ug/kg	BDL		2100	58	45 --- 110		
1,2-Dichlorobenzene	1170	ug/kg	BDL		2100	56	45 --- 95		
1,3-Dichlorobenzene	1140	ug/kg	BDL		2100	54	40 --- 100		
1,4-Dichlorobenzene	1150	ug/kg	BDL		2100	55	35 --- 105		
2,4,5-Trichlorophenol	1350	ug/kg	BDL		2100	64	50 --- 110		
2,4,6-Trichlorophenol	1330	ug/kg	BDL		2100	63	45 --- 110		
2,4-Dichlorophenol	1370	ug/kg	BDL		2100	65	45 --- 110		
2,4-Dimethylphenol	1450	ug/kg	BDL		2100	69	30 --- 105		
2,4-Dinitrophenol	677	ug/kg	BDL		2100	32	15 --- 130		
2,4-Dinitrotoluene	1370	ug/kg	BDL		2100	65	50 --- 115		
2,6-Dinitrotoluene	1340	ug/kg	BDL		2100	64	50 --- 110		
2-Chloronaphthalene	1330	ug/kg	BDL		2100	63	45 --- 105		
2-Chlorophenol	1230	ug/kg	BDL		2100	59	45 --- 105		
2-Methylnaphthalene	1390	ug/kg	38		2100	64	45 --- 105		
2-Methylphenol	1360	ug/kg	BDL		2100	65	40 --- 105		
2-Nitroaniline	1340	ug/kg	BDL		2100	64	45 --- 120		
2-Nitrophenol	1360	ug/kg	BDL		2100	65	40 --- 110		
3 & 4-Methylphenol	1430	ug/kg	BDL		2100	68	40 --- 105		
3,3'-Dichlorobenzidine	0	ug/kg	BDL		2100	0	10 --- 130		
3-Nitroaniline	592	ug/kg	BDL		2100	28	25 --- 110		
4,6-Dinitro-2-methylphenol	888	ug/kg	BDL		2100	42	30 --- 135		
4-Bromophenyl-phenyl ether	1320	ug/kg	BDL		2100	63	45 --- 115		
4-Chloro-3-methylphenol	1310	ug/kg	BDL		2100	62	45 --- 115		
4-Chloroaniline	240	ug/kg	BDL		2100	11	10 --- 95		
4-Chlorophenyl-phenyl ether	1300	ug/kg	BDL		2100	62	45 --- 110		
4-Nitroaniline	1060	ug/kg	BDL		2100	50	35 --- 115		
4-Nitrophenol	1370	ug/kg	BDL		2100	65	15 --- 140		
Acenaphthene	1530	ug/kg	53		2100	70	45 --- 110		
Acenaphthylene	1400	ug/kg	10		2100	66	45 --- 105		
Anthracene	1570	ug/kg	120		2100	69	55 --- 105		
Benzo(a)anthracene	1650	ug/kg	280		2100	65	50 --- 110		
Benzo(a)pyrene	1420	ug/kg	240		2100	56	50 --- 110		
Benzo(b)fluoranthene	1830	ug/kg	410		2100	68	45 --- 115		
Benzo(g,h,i)perylene	538	ug/kg	80		2100	22	40 --- 125		
Benzo(k)fluoranthene	1400	ug/kg	130		2100	60	45 --- 125		
Benzoic acid	1290	ug/kg	850		2100	21	0 --- 110		
Benzyl alcohol	1720	ug/kg	BDL		2100	82	20 --- 125		
Bis(2-chloroethoxy)methane	1320	ug/kg	BDL		2100	63	45 --- 110		
Bis(2-chloroethyl)ether	1160	ug/kg	BDL		2100	55	40 --- 105		
Bis(2-chloroisopropyl)ether	1340	ug/kg	BDL		2100	64	20 --- 115		
Butylbenzylphthalate	1310	ug/kg	BDL		2100	62	50 --- 125		
Carbazole	1590	ug/kg	70		2100	72	45 --- 115		

Matrix Spike Soil

Analytical Run #:	80956	Analysis Date:	11/28/2011	Prep Batch #:	39403	Matrix:	SOIL
CTLab #:	103266	Analysis Time:	21:10	Prep Date/Time:	11/21/2011 13:30	Method:	SW8270
Parent Sample #:	101871	Analyst:	RPN	Prep Analyst:	SRT		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Chrysene	1670	ug/kg	310		2100	65	55 --- 110		
Di-n-butylphthalate	1370	ug/kg	BDL		2100	65	55 --- 110		
Di-n-octylphthalate	1270	ug/kg	BDL		2100	60	40 --- 130		
Dibenzo(a,h)anthracene	707	ug/kg	27		2100	32	40 --- 125		
Dibenzofuran	1340	ug/kg	34		2100	62	50 --- 105		
Diethylphthalate	1320	ug/kg	BDL		2100	63	50 --- 115		
Dimethylphthalate	1290	ug/kg	BDL		2100	61	50 --- 110		
Fluoranthene	2440	ug/kg	720		2100	82	55 --- 115		
Fluorene	1530	ug/kg	62		2100	70	50 --- 110		
Hexachlorobenzene	1340	ug/kg	BDL		2100	64	45 --- 120		
Hexachlorobutadiene	1300	ug/kg	BDL		2100	62	40 --- 115		
Hexachlorocyclopentadiene	321	ug/kg	BDL		2100	15	30 --- 137		
Hexachloroethane	1130	ug/kg	BDL		2100	54	35 --- 110		
Indeno(1,2,3-cd)pyrene	718	ug/kg	120		2100	28	40 --- 120		
Isophorone	1360	ug/kg	BDL		2100	65	45 --- 110		
N-Nitroso-di-n-propylamine	1330	ug/kg	BDL		2100	63	40 --- 115		
N-Nitrosodiphenylamine & Diphn	2930	ug/kg	BDL		4210	70	50 --- 115		
Naphthalene	1310	ug/kg	41		2100	60	40 --- 105		
Nitrobenzene	1310	ug/kg	BDL		2100	62	40 --- 115		
Pentachlorophenol	1030	ug/kg	BDL		2100	49	25 --- 120		
Phenanthrene	2130	ug/kg	500		2100	78	50 --- 110		
Phenol	1280	ug/kg	BDL		2100	61	40 --- 100		
Pyrene	2130	ug/kg	540		2100	76	45 --- 125		
Surr: 2,4,6-Tribromophenol	65.2	% Recovery			100	65.2	35 --- 125		
Surr: 2-Fluorobiphenyl	61.2	% Recovery			100	61.2	45 --- 105		
Surr: 2-Fluorophenol	48.9	% Recovery			100	48.9	35 --- 105		
Surr: Nitrobenzene-d5	62.9	% Recovery			100	62.9	35 --- 100		
Surr: o-terphenyl-d14	69.0	% Recovery			100	69.0	30 --- 125		
Surr: Phenol-d5	57.7	% Recovery			100	57.7	40 --- 100		
Surr: Terphenyl-d14	68.1	% Recovery			100	68.1	30 --- 125		

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Condition Report

Folder #: 88174
Client: USACE - LOUISVILLE

Project Name: CC-78
Project #: W912QR-10-D-0024

Coolers: 5129,5083
Custody Seals Present : **N**

Seal Intact? **N**
Ship Method: FEDEX EXPRESS
Adequate Packaging: **Y**

Print Date / Time: 11/11/2011 02:41
Received Date / Time / By: 11/11/2011 1130 JLS

Log-In Date / Time / By: 11/11/2011 1400 JLS
PM: PML

Temperature: 2.1,1.7 C On Ice: **Y**
COC Present:? **Y** Complete? **Y**

Numbers: NONE
Tracking Number: 875022446626
Temp Blank Enclosed? **Y**

Notes: SAMPLES REC'D IN GOOD CONDITION ON ICE
NO CUSTODY SEALS PRESENT. DUCT TAPE WAS INTACT.

LIMITED SAMPLE VOLUME FOR SUBSURFACE MI SAMPLES. CLIENT NOTIFIED OF POSSIBILITY THAT WE WILL NOT BE ABLE TO PERFORM ALL REQUESTED ANALYSES DUE TO LOW VOLUME.

SAMPLES C78SS-0008-0001-SO AND C78SS-0008-0002-SO WERE MARKED FOR MS/MSD ANALYSIS AS INDICATED ON THE COC. BECAUSE THE REQUESTED ANALYSIS FOR THE MI SAMPLE WAS SHORTER THAN THE REST OF THE MI SAMPLES AND THERE WAS ONLY ONE VIAL FOR THE VOC DISCRETE SAMPLE THE CLIENT WAS CONTACTED TO VERIFY THE REQUESTED ANALYSES. THROUGH SEVERAL E-MAILS AND PHONE CALL IT WAS DETERMINED THAT THE "0008" SAMPLES WERE EXTRA SAMPLE TO PERFORM A MS/MSD. SAMPLE "0008-0001" IS EXTRA SAMPLE FOR "0005-0001" AND "0008-0002" S EXTRA SAMPLE FOR "0006-0001".

SAMPLE C78SS-0009-0002-BD WAS NOT MARKED FOR ANALYSIS. DUE TO THE SAMPLE MATRIX IT IS ASSUMED IT IS AN ASBESTOS SAMPLE. CLIENT CONFIRMED THIS.

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
101855 C78SB-023M-0101-SO					
	SOLIDS	1		%SOL,HG,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
101855 C78SB-023M-0101-SO					
	UNPRES GL	1		8270,EXPL,NC,PCB,PEST	
	Total # of Containers of Type (*UNPRES GL*) = 1				
101855 C78SB-023M-0101-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				
101855 C78SB-023M-0101-SO					
	MISC	1		SUB ASBESTOS	
	Total # of Containers of Type (*MISC*) = 1				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
101856 C78SB-023V-0101-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
101856 C78SB-023V-0101-SO					
	MEOH TARED	1		VOC	

Total # of Containers of Type (*MEOH TARED*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
101857 C78SB-023M-0102-SO					
	SOLIDS	1		%SOL,HG,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
101857 C78SB-023M-0102-SO					
	UNPRES GL	1		8270,EXPL,NC,PCB,PEST	
	Total # of Containers of Type (*UNPRES GL*) = 1				
101857 C78SB-023M-0102-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				
101857 C78SB-023M-0102-SO					
	MISC	1		SUB ASBESTOS	
	Total # of Containers of Type (*MISC*) = 1				
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?**	**Tests**	**Filtered?**
101858 C78SB-023V-0102-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
101858 C78SB-023V-0102-SO					
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 1				
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?**	**Tests**	**Filtered?**
101859 C78SB-023M-0001-SO					
	SOLIDS	1		%SOL,HG,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
101859 C78SB-023M-0001-SO					
	UNPRES GL	1		8270,EXPL,NC,PCB,PEST	
	Total # of Containers of Type (*UNPRES GL*) = 1				
101859 C78SB-023M-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				
101859 C78SB-023M-0001-SO					
	MISC	1		SUB ASBESTOS	
	Total # of Containers of Type (*MISC*) = 1				
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?**	**Tests**	**Filtered?**
101860 C78SB-023V-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
101860 C78SB-023V-0001-SO					
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 1				
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?**	**Tests**	**Filtered?**

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
101861 C78SB-023M-0002-SO	SOLIDS	1		%SOL,HG,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
101861 C78SB-023M-0002-SO	UNPRES GL	1		8270,EXPL,NC,PCB,PEST	
	Total # of Containers of Type (*UNPRES GL*) = 1				
101861 C78SB-023M-0002-SO	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				
101861 C78SB-023M-0002-SO	MISC	1		SUB ASBESTOS	
	Total # of Containers of Type (*MISC*) = 1				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
101862 C78SB-023V-0002-SO	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
101862 C78SB-023V-0002-SO	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 1				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
101863 C78SB-023M-0003-SO	SOLIDS	1		%SOL,HG,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
101863 C78SB-023M-0003-SO	UNPRES GL	1		8270,EXPL,NC,PCB,PEST	
	Total # of Containers of Type (*UNPRES GL*) = 1				
101863 C78SB-023M-0003-SO	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				
101863 C78SB-023M-0003-SO	MISC	1		SUBASBESTOS	
	Total # of Containers of Type (*MISC*) = 1				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
101864 C78SB-023V-0003-SO	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
101864 C78SB-023V-0003-SO	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 1				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
101865 C78SB-023M-0004-SO	SOLIDS	1		%SOL,HG,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
101865 C78SB-023M-0004-SO	UNPRES GL	1		8270,EXPL,NC,PCB,PEST	
	Total # of Containers of Type (*UNPRES GL*) = 1				
101865 C78SB-023M-0004-SO	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				
101865 C78SB-023M-0004-SO	MISC	1		SUB ASBESTOS	
	Total # of Containers of Type (*MISC*) = 1				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
101866 C78SB-023V-0004-SO	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
101866 C78SB-023V-0004-SO	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 1				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
101867 C78SB-023M-0005-SO	SOLIDS	1		%SOL,HG,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
101867 C78SB-023M-0005-SO	UNPRES GL	1		8270,EXPL,NC,PCB,PEST	
	Total # of Containers of Type (*UNPRES GL*) = 1				
101867 C78SB-023M-0005-SO	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				
101867 C78SB-023M-0005-SO	MISC	1		SUB ASBESTOS	
	Total # of Containers of Type (*MISC*) = 1				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
101868 C78SB-023V-0005-SO	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
101868 C78SB-023V-0005-SO	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 1				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
101869 C78SB-023M-0006-SO	SOLIDS	1		%SOL,HG,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
101869 C78SB-023M-0006-SO	UNPRES GL	1		8270,EXPL,NC,PCB,PEST	
	Total # of Containers of Type (*UNPRES GL*) = 1				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
101869 C78SB-023M-0006-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				
101869 C78SB-023M-0006-SO					
	MISC	1		SUB ASBESTOS	
	Total # of Containers of Type (*MISC*) = 1				
101870 C78SB-023V-0006-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
101870 C78SB-023V-0006-SO					
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 1				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
101871 C78SS-0005-0001-SO					
	SOLIDS	1		%SOL,HG,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
101871 C78SS-0005-0001-SO					
	UNPRES GL	1		8270,EXPL,NC,PCB,PEST	
	Total # of Containers of Type (*UNPRES GL*) = 1				
101871 C78SS-0005-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				
101871 C78SS-0005-0001-SO					
	MISC	1		SUB ASBESTOS	N
	Total # of Containers of Type (*MISC*) = 1				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
101872 C78SS-0006-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
101872 C78SS-0006-0001-SO					
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 1				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
101875 C78SS-0009-0002-BD					
	SOLIDS	1		SUB ASBESTOS	
	Total # of Containers of Type (*SOLIDS*) = 1				

Condition Code	*Condition Description*
1	Sample Received OK

Letterer, Pat

From: John Jent [jpjent@prudentweb.com]
Sent: Sunday, November 13, 2011 8:40 PM
To: mark com; Letterer, Pat
Cc: smansy@prudentweb com; jpjent@prudentweb com
Subject: Ravenna MS-MSD Analyzes

Mark and Pat,

As per Dr. Mansy, please do not conduct TAL metals or mercury analyses for on the MS/MSD samples.

It was my mistake on the chain-of custodies.

Thanks,

John P. Jent, MS, PE
Senior Project Manager

Prudent Technologies, Inc.
3303 Trinity Road / Louisville, KY 40206
Cell: 502-439-8005 / e-mail: jpjent@PrudentWeb.com
Please visit us at: http://www.PrudentWeb.com

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Letterer, Pat

From: John Jent [jpjent@prudentweb.com]
Sent: Sunday, November 13, 2011 9:12 PM
To: Letterer, Pat
Cc: smansy@prudentweb com; jpjent@prudentweb com
Subject: Re: RVAAP Samples

Pat,

Below are answers to your questions.

1 C78SS-0009-0002-BD
Yes it should be tested for asbestos only

2 Please make the best of the situation. If any samples do not have sufficient sample volume for all the analyses, please delete the ACM testing first.

3 Please follow the bag label. The correct sample ID is C78SS-005M-0001-SO.

4 If there is insufficient sample for the VOC MS/MSD so be it. We did provide just one vial for the MS/MSD sampling we did at Ravenna this past July, however. In this round, we provided two plugs for the water content. I don't know if these materials can somehow be used for the MS/MSD procedure.

Finally, I inadvertently forgot to remove our copy of the Chain-of Custodies. Would you please pdf them and send them to me.

If you have any more questions, please call or email me.

Thanks,

John P. Jent, MS, PE
Senior Project Manager

Prudent Technologies, Inc.
3303 Trinity Road / Louisville, KY 40206
Cell: 502-439-8005 / e-mail: jpjent@PrudentWeb.com
Please visit us at: http://www.PrudentWeb.com

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From: "Letterer, Pat" <pletterer@ctlaboratories.com>
To: John Jent <jpjent@prudentweb.com>
Sent: Friday, November 11, 2011 2:16 PM
Subject: RVAAP Samples

Hi John

I do have a few questions.

First, sample C78SS-0009-0002-BD was not marked for analysis. I assume it is for asbestos?

Second, all of the samples with low sample volume may not have enough sample to do all of the requested analyses. I will have to weigh them out but I still need to subsample for the asbestos and then proceed with the sieving and drying for the MI prep. I will know better after I subsample for the asbestos and then weigh the bags. Of course we will still have to sieve which will remove any rocks and other debris which will affect the total sample weight.

Third, for C78SS-0005-0001-SO the bag label has C78SS-005**M**-0001-SO. Do I follow the COC in this case or the bag label??

Fourth, for the discrete VOC samples only one methanol terra core vial was used for each sample. I doubt we will have enough sample to do a MS/MSD on sample C78SS-0008-0002-SO.

Patrick Letterer
Project Manager
CTLaboratories
1230 Lange Court
Baraboo , WI 53913
Phone: 800-228-3012
Fax: 608-356-2766
e-mail: pletterer@ctlaboratories.com
<<http://www.ctlaboratories.com/>>
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Letterer, Pat

From: John Jent [jpjent@prudentweb.com]
Sent: Sunday, November 13, 2011 9:15 PM
To: Letterer, Pat
Cc: smansy@prudentweb com; jpjent@prudentweb com
Subject: Re: RVAAP Question

Pat,

Since this sample is for MS/MSD purposes, TAL metals, mercury, and ACM are not to be run.

John P. Jent, MS, PE
Senior Project Manager

Prudent Technologies, Inc.
3303 Trinity Road / Louisville, KY 40206
Cell: 502-439-8005 / e-mail: jpjent@PrudentWeb.com
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Subject: RVAAP Question

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Sent: Monday, November 14, 2011 10:48 AM
To: Letterer, Pat
Cc: smansy@prudentweb com; jpjent@prudentweb com
Subject: Re: Ravenna MS-MSD Analyzes

Pat,

Thanks for checking.

Please analyze for TAL metals and Hg on the QC sample, C78SS-005M-0001-SO, but not on the MS/MSD sample C78SS-008M-0001-SO.

Thanks,

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Sent: Monday, November 14, 2011 11:35 AM
Subject: RE: Ravenna MS-MSD Analyzes

No QC on the specified samples for metals?

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Pat,

It makes things difficult when we can't share the grand picture with you.

C78SS-005M-0001-SO and C78SS-006-0001-SO are one set of triplicate ISM surface soil samples for QA purposes. Another set was sent to the primary lab as the primary samples and the QC samples.

C78SS-008-0001-SO and C78SS-008-0002-SO are samples provided for MS/MSD purposes.

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Cc: "smansy@prudentweb com" <smansy@prudentweb.com>
Sent: Monday, November 14, 2011 11:40 AM
Subject: RE: RVAAP Question

Hello

OK, now I am confused. I “assume” that samples C78SS-0008-0001-SO and C78SS-0008-0002-SO are individual samples that also need an MS/MSD analyzed on them.???? In reading your e-mail below it almost sounds like those two samples are “extra” sample that are for QC???? Please verify.

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To: John Jent <jpjent@prudentweb.com>
Sent: Friday, November 11, 2011 2:38 PM
Subject: RVAAP Question

Hello

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Mark and Pat,

As per Dr. Mansy, please do not conduct TAL metals or mercury analyses for on the MS/MSD samples.

It was my mistake on the chain-of custodies.

Thanks,

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Letterer, Pat

From: John Jent [jpjent@prudentweb.com]
Sent: Sunday, November 13, 2011 9:12 PM
To: Letterer, Pat
Cc: smansy@prudentweb com; jpjent@prudentweb com
Subject: Re: RVAAP Samples

Pat,

Below are answers to your questions.

1 C78SS-0009-0002-BD
Yes it should be tested for asbestos only

2 Please make the best of the situation. If any samples do not have sufficient sample volume for all the analyses, please delete the ACM testing first.

3 Please follow the bag label. The correct sample ID is C78SS-005M-0001-SO.

4 If there is insufficient sample for the VOC MS/MSD so be it. We did provide just one vial for the MS/MSD sampling we did at Ravenna this past July, however. In this round, we provided two plugs for the water content. I don't know if these materials can somehow be used for the MS/MSD procedure.

Finally, I inadvertently forgot to remove our copy of the Chain-of Custodies. Would you please pdf them and send them to me.

If you have any more questions, please call or email me.

Thanks,

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From: "Letterer, Pat" <pletterer@ctlaboratories.com>
To: John Jent <jpjent@prudentweb.com>
Sent: Friday, November 11, 2011 2:16 PM
Subject: RVAAP Samples

Hi John

I do have a few questions.

First, sample C78SS-0009-0002-BD was not marked for analysis. I assume it is for asbestos?

Second, all of the samples with low sample volume may not have enough sample to do all of the requested analyses. I will have to weigh them out but I still need to subsample for the asbestos and then proceed with the sieving and drying for the MI prep. I will know better after I subsample for the asbestos and then weigh the bags. Of course we will still have to sieve which will remove any rocks and other debris which will affect the total sample weight.

Third, for C78SS-0005-0001-SO the bag label has C78SS-005**M**-0001-SO. Do I follow the COC in this case or the bag label??

Fourth, for the discrete VOC samples only one methanol terra core vial was used for each sample. I doubt we will have enough sample to do a MS/MSD on sample C78SS-0008-0002-SO.

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Sent: Monday, November 14, 2011 9:49 PM
To: mark com; Letterer, Pat
Cc: smansy@prudentweb com; jpjent@prudentweb com
Subject: Fw: Metal Analysis Protocol

Mark and Pat,

Please adhere to Sam's requirements.

If you have any questions, please call or email Sam and copy furnish me.

Thanks,

John P. Jent, MS, PE
Senior Project Manager

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----- Forwarded Message -----
From: Samir Mansy <smansy@prudentweb.com>
To: John Jent <jpjent@prudentweb.com>
Sent: Monday, November 14, 2011 1:29 PM
Subject: Metal Analysis Protocol

JJ: In order to meet the reporing requirements for Metal Analyis, the following must be conducted:

1. Duplicate Analysis
2. Pre-digested Spike Sample Analysis
3. In case of spike recovery be out of the QC Limits, Post Digestion spike must be conducted
4. Absolutely no MS/MSD on samples for Metal Anlaysis

Than You,

SAm

DVRR10092011

Table 19

ORGANOCHLORINE PESTICIDES ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna — L12-

Date Sampled: 7/3/2011 — Method No: EPA 8081

QC-SAMPLE NO: L12SS-301M-0001-SO — QA-SAMPLE NO.: L12SS-302M-0001-SO

Date Analyzed: 12/08/2011 Repeat Analysis — Date Analyzed: 07/21/11

Lab Name: TestAmerica-N. Canton — Lab Name: CT Laboratories

QC DF =5.0 — QA DF=2

Matrix: soil — Concentration: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
309-00-2	Aldrin	<6.8	<1.0		
319-84-6	α-BHC	<6.8	<1.2		
319-85-7	β-BHC	<6.8	<1.2		
58-89-9	γ-BHC (Lindane)	<6.8	<0.1		
319-86-8	δ-BHC	<6.8	<0.61		
5103-71-9	α-Chlordane				
5103-74-2	γ-Chlordane	<3.4			
57-74-9	Chlordane		<8.2		
510-15-6	Chlorobenzilate				
96-12-8	1,2-Dibromo-3-chloropropane (DBC)				
72-54-8	4,4'-DDD	<3.4	<0.62		
72-55-9	4,4'-DDE	**10**	**31**	**102.44**	
50-29-3	4,4'-DDT	<3.4	<1.0		
2303-16-4	Dialliate				
60-57-1	Dieldrin	<3.4	<0.62		
959-98-8	Endosulfan I	<3.4	**14**		
33213-65-9	Endosulfane II	<6.8	<0.61		
1031-07-8	Endosulfane-sulfate	<6.8	<1.8		
72-20-8	Endrin	<3.4	**30**		
7421-93-4	Endrin aldehyde	**24**	**29**	**18.868**	
53494-70-5	Endrin ketone	<3.4	<1.6		
76-44-8	Heptachlor	<6.8	**71**		
1024-57-3	Heptachlor epoxide	<6.8	**8.2**		
465-73-6	Isodrin				
72-43-5	Methoxychlor	**280**	<1.4		
8001-35-2	Toxaphene	<100	<10		

S. Mansy 10/6/2011

DVRR10092011

Table 20

ORGANOCHLORINE PESTICIDES ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID: LL3-

Project: Ravenna

Date Sampled: 7/3/2011 Method No: EPA 8081

QC-SAMPLE NO: LL2SS-517M-0001-SO QA-SAMPLE NO.: LL2SS-518M-0001-SO

Date Analyzed: 12/8/2011 Repeat Analysis Date Analyzed: 07/21/11

Lab Name: TestAmerica-N. Canton Lab Name: CT Laboratories

QC DF =5.0 QA DF=2

Matrix: soil Concentration: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
309-00-2	Aldrin	<6.8	<1.0		
319-84-6	α-BHC	<6.8	<1.2		
319-85-7	β-BHC	<6.8	<1.2		
58-89-9	γ-BHC (Lindane)	<6.8	<0.1		
319-86-8	δ-BHC	<6.8	<0.61		
5103-71-9	α-Chlordane	<6.8	<0.61		
5103-74-2	γ-Chlordane	<3.4	<0.61		
57-74-9	Chlordane		<8.1		
510-15-6	Chlorobenzilate				
96-12-8	1,2-Dibromo-3-chloropropane (DBC)				
72-54-8	4,4'-DDD	<3.4	<0.61		
72-55-9	4,4'-DDE	**3.3**	**16**	131.61	
50-29-3	4,4'-DDT	<3.4	<1.0		
2303-16-4	Dialliate				
60-57-1	Dieldrin	<3.4	**8.8**		
959-98-8	Endosulfan I	<3.4	<1.4		
33213-65-9	Endosulfane II	<6.8	<0.61		
1031-07-8	Endosulfane-sulfate	<6.8	<1.8		
72-20-8	Endrin	<3.4	<0.81		
7421-93-4	Endrin aldehyde	<6.8	**13**		
53494-70-5	Endrin ketone	**25**	<1.6		
76-44-8	Heptachlor	<6.8	<0.81		
1024-57-3	Heptachlor epoxide	<6.8	**2.6**		
465-73-6	Isodrin				
72-43-5	Methoxychlor	**66**	<1.4		
8001-35-2	Toxaphene	<100	<10		

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Table 21

ORGANOCHLORINE PESTICIDES ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna — LL1-

Date Sampled: 7/5/2011 — Method No: EPA 8081

QC-SAMPLE NO: LL1SB-645M-0101-SO — QA-SAMPLE NO.: LL1SB-646M-0101-SO

Date Analyzed: 12/8/2011 Repeated Ananysis — Date Analyzed: 07/21/11

Lab Name: TestAmerica-N. Canton — Lab Name: CT Laboratories

QC DF= 1.0 — QA DF=20

Matrix: soil — Concentration: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
309-00-2	Aldrin	<0.68	<10		
319-84-6	α-BHC	<1.3	<12		
319-85-7	β-BHC	<1.3	<12		
58-89-9	γ-BHC (Lindane)	<1.3	<1.0		
319-86-8	δ-BHC	<1.3	<6.0		
5103-71-9	α-Chlordane	<1.3	<6.0		
5103-74-2	γ-Chlordane	<0.68	**16**		
57-74-9	Chlordane		<80		
510-15-6	Chlorobenzilate				
96-12-8	1,2-Dibromo-3-chloropropane (DBC)				
72-54-8	4,4'-DDD	<0.68	<6.0		
72-55-9	4,4'-DDE	**25**	**190**	153.49	
50-29-3	4,4'-DDT	<0.68	<10		
2303-16-4	Dialliate				
60-57-1	Dieldrin	<0.68	**22**		
959-98-8	Endosulfan I	<0.68	<14		
33213-65-9	Endosulfane II	<1.3	<6.0		
1031-07-8	Endosulfane-sulfate	<1.3	<1.8		
72-20-8	Endrin	<0.68	<8.0		
7421-93-4	Endrin aldehyde	**24**	<22		
53494-70-5	Endrin ketone	<0.68	<16		
76-44-8	Heptachlor	**8.4**	<8.0		
1024-57-3	Heptachlor epoxide	<1.3	**12**		
465-73-6	Isodrin				
72-43-5	Methoxychlor	<3.3	<14		
8001-35-2	Toxaphene	<20	<100		

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Table 22

ORGANOCHLORINE PESTICIDES ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna | LL1-

Date Sampled: 7/5/2011 | Method No: EPA 8081

QC-SAMPLE NO: LL1SB-645M-0102-SO | QA-SAMPLE NO.: LL1SB-646M-0102-SO

Date Analyzed: 12/8/2011 Repeated Analysis | Date Analyzed: 07/21/11

Lab Name: TestAmerica-N. Canton | Lab Name: CT Laboratories

QC DF = 10 | QA DF=20

Matrix: soil | Concentration: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
309-00-2	Aldrin	<13	<10		
319-84-6	α-BHC	<13	<12		
319-85-7	β-BHC	<13	<12		
58-89-9	γ-BHC (Lindane)	<13	<1.0		
319-86-8	δ-BHC	<13	<6.0		
5103-71-9	α-Chlordane	<13	<6.1		
5103-74-2	γ-Chlordane	<6.8	<6.1		
57-74-9	Chlordane		<81		
510-15-6	Chlorobenzilate				
96-12-8	1,2-Dibromo-3-chloropropane (DBC)				
72-54-8	4,4'-DDD	<6.8	<6.0		
72-55-9	4,4'-DDE	**180**	**490**	92.537	
50-29-3	4,4'-DDT	<6.8	<10		
2303-16-4	Dialliate				
60-57-1	Dieldrin	**21**	**250**	169	
959-98-8	Endosulfan I	<6.8	<14		
33213-65-9	Endosulfane II	<13	<6.0		
1031-07-8	Endosulfane-sulfate	<13	<18		
72-20-8	Endrin	<6.8	<8.0		
7421-93-4	Endrin aldehyde	**370**	**270**	31.3	
53494-70-5	Endrin ketone	<6.8	<16		
76-44-8	Heptachlor	<13	<8.0		
1024-57-3	Heptachlor epoxide	<13	**59**		
465-73-6	Isodrin				
72-43-5	Methoxychlor	<33	**420**		
8001-35-2	Toxaphene	**2600**	<100		

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Table 23

ORGANOCHLORINE PESTICIDES ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID: LL1-

Project: Ravenna

Date Sampled: 7/5/2011 Method No: EPA 8081

QC-SAMPLE NO: LL1SB-645M-0103-SO QA-SAMPLE NO.: LL1SB-646M-0103-SO

Date Analyzed: 12/8/2011 Repeated Analysis Date Analyzed: 07/21/11

Lab Name: TestAmerica-N. Canton Lab Name: CT Laboratories

QC DF = 1.0 QA DF=10

Matrix: soil Concentration: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
309-00-2	Aldrin	<1.3	**6**		
319-84-6	α-BHC	<1.3	<6.0		
319-85-7	β-BHC	<1.3	<6.0		
58-89-9	γ-BHC (Lindane)	<1.3	<5.0		
319-86-8	δ-BHC	<1.3	<3.0		
5103-71-9	α-Chlordane	<1.3	<3.0		
5103-74-2	γ-Chlordane	<0.67	**12**		
57-74-9	Chlordane		<40		
510-15-6	Chlorobenzilate				
96-12-8	1,2-Dibromo-3-chloropropane (DBC)				
72-54-8	4,4'-DDD	<0.67	<6.0		
72-55-9	4,4'-DDE	<0.67	**490**		
50-29-3	4,4'-DDT	<0.67	<10		
2303-16-4	Dialliate				
60-57-1	Dieldrin	<0.67	**8.9**		
959-98-8	Endosulfan I	<1.3	<7.0		
33213-65-9	Endosulfane II	<1.3	<3.0		
1031-07-8	Endosulfane-sulfate	<1.3	<8.9		
72-20-8	Endrin	<0.67	<4.0		
7421-93-4	Endrin aldehyde	<1.3	<11		
53494-70-5	Endrin ketone	<0.67	<7.9		
76-44-8	Heptachlor	<1.3	<8.0		
1024-57-3	Heptachlor epoxide	<1.3	<5.0		
465-73-6	Isodrin				
72-43-5	Methoxychlor	<3.3	<7.0		
8001-35-2	Toxaphene	<20	<50		

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Table 24

ORGANOCHLORINE PESTICIDES ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID: LL4-

Project: Ravenna

Date Sampled: 6/26/2011 Method No: EPA 8081

QC-SAMPLE NO: LL4SS-417M-0001-SO QA-SAMPLE NO.: LL4SS-418M-0001-SO

Date Analyzed: 12/8/2011/ Repeat Analysis Date Analyzed: 07/21/11

Lab Name: TestAmerica-N. Canton Lab Name: CT Laboratories

QC DF = 1.0 QA DF = 1

Matrix: soil Concentration: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
309-00-2	Aldrin	<1.4	<0.51		
319-84-6	α-BHC	<1.4	<0.61		
319-85-7	β-BHC	**4.6**	<0.61		
58-89-9	γ-BHC (Lindane)	<1.4	<0.51		
319-86-8	δ-BHC	<1.4	**1.9**		
5103-71-9	α-Chlordane	<1.4			
5103-74-2	γ-Chlordane	<0.69	<0.3		
57-74-9	Chlordane		<4.1		
510-15-6	Chlorobenzilate				
96-12-8	1,2-Dibromo-3-chloropropane (DBC)				
72-54-8	4,4'-DDD	<0.69	<0.3		
72-55-9	4,4'-DDE	**1.6**	**2.5**	43.902	
50-29-3	4,4'-DDT	**0.74**	**7.2**	162.72	
2303-16-4	Dialliate				
60-57-1	Dieldrin	<0.69	<0.30		
959-98-8	Endosulfan I	<0.69	**2.9**		
33213-65-9	Endosulfane II	<1.4	**0.61**		
1031-07-8	Endosulfane-sulfate	<1.4	<0.91		
72-20-8	Endrin	<0.69	**4.6**		
7421-93-4	Endrin aldehyde	**3.1**	<1.1		
53494-70-5	Endrin ketone	<0.69	<0.81		
76-44-8	Heptachlor	<1.4	**8.7**		
1024-57-3	Heptachlor epoxide	<1.4	<0.51		
465-73-6	Isodrin				
72-43-5	Methoxychlor	**6.3**	**5.6**		
8001-35-2	Toxaphene	<20	<5.1		

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Table 25

ORGANOCHLORINE PESTICIDES ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID: LL3-

Project: Ravenna

Date Sampled: 7/2/2011 Method No: EPA 8081

QC-SAMPLE NO: LL3SD-417M-0001-SD QA-SAMPLE NO.: LL3SD-418M-0001-SD

Date Analyzed: 12/8/2011 Repeat Analysis Date Analyzed: 07/21/11

Lab Name: TestAmerica-N. Canton Lab Name: CT Laboratories

QC DF =5.0 QA DF = 2

Matrix: soil Concentration: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
309-00-2	Aldrin	<6.8	<0.1		
319-84-6	α-BHC	<6.8	<1.2		
319-85-7	β-BHC	<6.8	<1.2		
58-89-9	γ-BHC (Lindane)	<6.8	<0.1		
319-86-8	δ-BHC	<6.8	<0.61		
5103-71-9	α-Chlordane	<6.8	<0.61		
5103-74-2	γ-Chlordane	<3.4	<0.61		
57-74-9	Chlordane		<8.2		
510-15-6	Chlorobenzilate				
96-12-8	1,2-Dibromo-3-chloropropane (DBC)				
72-54-8	4,4'-DDD	<3.4	<0.61		
72-55-9	4,4'-DDE	**10**	**36**	**113.04**	
50-29-3	4,4'-DDT	<3.4	<0.1		
2303-16-4	Dialliate				
60-57-1	Dieldrin	<3.4	<0.61		
959-98-8	Endosulfan I	<3.4	<1.4		
33213-65-9	Endosulfane II	<6.8	**1.6**		
1031-07-8	Endosulfane-sulfate	<6.8	<1.8		
72-20-8	Endrin	<3.4	**20**		
7421-93-4	Endrin aldehyde	**5.2**	<2.2		
53494-70-5	Endrin ketone	**25**			
76-44-8	Heptachlor	<6.8	**110**		
1024-57-3	Heptachlor epoxide	<6.8	**3.1**		
465-73-6	Isodrin				
72-43-5	Methoxychlor	**210**	<1.4		
8001-35-2	Toxaphene	<100	<10		

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Appendix G – Data Verification Report

Prudent Technologies, Inc.

Data Verification Report (DVRR)

Project Name: Ravenna Army Ammunition Plant **Location:** Ravenna, Ohio

Laboratory Name: TestAmerica – North Canton **Reviewer:** Dr. Samir A. Mansy

Title: Senior Chemist

Project No.: RVAAP-2401585-1, -1599-1, 1619-1, 1620-1, 1650-1, 1653-1, 1728-1, 1585-2, 1619-2

Report Date(s): _____ **Review Date:** October 10, 2011

Methodology: SW846 **Revised Date:** February 6, 2012

Review: Manual, 100%

QC Elements			Compliance	
			N	Y
Laboratory Status	Validated			X
1. Cooler's Receipt Form (s):		Comments		
Chain of Custody (CC)	Chain Kept			X
Cooler's Temperature	2 - 4 Celsius			X
Sample Labeling	Accepted			X
Sample Containers	Acceptable			X
Headspace VOC	None			
Preservative	Yes			X

1. Holding Time:					Compliance	
Methods		Out	In	Comments	N	Y
Volatile Organics EPA 8260B	14 Days		Y			X
Semi-Volatile Org. EPA 3540	Extraction: 14 days		Y			X
Semi-Volatile Org. EPA 8270C	Analysis: 40 days		Y			X
PCB/Pesticides EPA 3540	Extraction: 14 days		Y			X
PCB/Pesticides EPA 8082A	Analysis: 40 days		Y			X
Herbicides Choose an item.	Extraction:	Not Applicable				X
Herbicides Choose an item.	Analysis	Not Applicable				x
Explosive: EPA 3550	Extraction: 14 days		Y			X
Explosive: EPA 8330B	Analysis: 40 days		Y			X
Nitro-cellulose	14 days		Y			X
Metals/ICP EPA 6010C	6 Months		Y			X
Metals/Graphite Choose an item.	6 Months	Not Applicable				
Hexavalent chromium, EPA 7196	24 Hours		Y			X
Mercury, EPA 7471	28 days		Y			X

1. Analysis:			Compliance	
3.1 Volatile Organic Analysis			N	Y
Method Number: **EPA 8260B**	Correct Analysis: Y			X
Reported MDL	Y			X
RL/MRL	Acceptable			X
VOC Trip Blank	Absent			X
Method Blank (MB)	Present			X
Rinsates Blank	Not Applicable			
Spikes Recovery: LCSs	Acceptable			X
RPD LCS/LCSD	Not Applicable			X
Surrogates:				
MB	Acceptable	The mean surrogate recoveries were outside the QC Limits of 85-115%, the recoveries ranged from 71-84.5% See Figures 1-4.		X
LCS	Acceptable			X
LCSD	Not Required			
Samples	Acceptable			
MS	Acceptable			X
MSD	Not Performed			X
Spikes Recovery:				X
MS	Acceptable			
MSD	Not Performed			
RPD MS/MSD	Not Applicable			
VOA Completeness	**Fill in number of samples analyzed & Total number of requested analyses from Chain of Custody (s)** Number Samples Analyzed: 75 / Total Number Analyses: 75 / Results: 100%			X

3. Analysis Continued:			Compliance	
3.2 Semi-Volatile Organic Analysis			N	Y
Method Number: **EPA 8270C**	Correct Analysis: Y	Indicate only wrong method(s) used:		X
Reported MDL	Y			X
RL/MRL	Acceptable			X
VOC Trip Blank	Not Applicable			X
Method Blank (MB)	Present			X
Rinsates Blank	Present			X
Spikes Recovery: LCSs	Acceptable			X
RPD LCS/LCSD	Not Required			
Surrogates: **MB** **LCS** **LCSD** **Samples** **MS** **MSD**	**Acceptable** Acceptable Not Required Acceptable Acceptable Acceptable < QC Limits Acceptable	**All Surrogate Recoveries were within their QC limits except for two samples, LL4SB-407M-0103-SO, LL4SB=415M-0103-SO. See Figures: 5-11** **Surrogates: Phenol-d_5, 2,4,6-Tribromophenol, Nitrobenzene-d_5, 2-Fluorobiphenyl and 2-Fluorophenol were out of control limits.** **Surrogate 2,4,6-Tribromophenol was recovered at 27% from sample LL4SB-410M-0101-SO and at 32% from sample LL4SB-411M-0101-SO at levels below the QC limits, 35-125%** **All six surrogates were not detected for sample #LL3SB-414M-0102-SO due to a dilution of its sample extract, Dilution Factor (DF) of 200; and for samples: L12SS-304M-0001/0002-SO, -MS, and –MSD, DF = 50.**	X X X X X X X X X	X X X X X X X X X

3. Analysis Continued:			Compliance	
3.2 Semi-Volatile Organic Analysis (Continued)			N	Y
Spikes Recovery:				
MS	Acceptable			X
MSD	Acceptable			X
RPD	Acceptable	All RPDs were below the Upper Limit of RPD Criteria of 30		X
MS/MSD				X
SVA Completeness	**Fill in number of samples analyzed & Total number of requested analyses from Chain of Custody (s)**			X

Number Samples Analyzed	Total Number Analyses	Results
56	56	**100%**

3. Analysis Continued:			Compliance	
3.3 Polychlorinated Biphenyls (PCB)			N	Y
Method Number: **EPA 8082A**	Correct Analysis: Y	Indicate only wrong method(s) used:		X
Reported MDL	Y			X
RL/MRL	Acceptable			X
VOC Trip Blank	Not Applicable			X
Method Blank (MB)	Present			X
Rinsates Blank	Present			X
Spikes Recovery: LCSs	Acceptable			X
Surrogates: MB LCS LCSD Samples MS MSD	 Acceptable Acceptable Not Required Acceptable Acceptable Acceptable	TCX Surrogate: All Recoveries of surrogate Tetrachloro-m-xylene compound (TCX) was within the QC Limits of 40-140%. The surrogate Recoveries had a mean of 82.9%. See Figure 12. TCX recoveries were not detected for samples: LL1SB-644M-0102-SO, LL1SB-644M-0103-SO, LL1SB-645M-0102-SO, LL1SB-645M-0102-SO-MS, LLS1B-645M-0102-SO-MSD, Due to dilutions, DF=50, 10, 100, 100, 100 respectively. Analytical data are acceptable. DCB Surrogate: Recoveries of surrogates Decachlorobiphenyl (DCB) compound ware within QC limits except for the following samples: LL3SD-416M-0001M-SD		 X X X

3. Analysis Continued:			Compliance	
3.4 Polychlorinated Biphenyls (PCB)/Continued			N	Y
Surrogates		LL3SD-417M-0001-SD LL2SS-519M-0001-SO LL2SS-516M-0001-SO LL2SS-516M-0001-SO MS LL2SS-516M-0001-SO MSD L12SS-300M-0001-SO L12SS-301M-0001-SO LL2SB-515M-0102-SO Recoveries were above the upper limit of the QC criteria (60-125). See Figure: 13. DCB Surrogate was not detected for sample, LL3SB-413M-0101-SO, due to a dilution of extracts, DF = 200. The mean of the DCB recoveries was 109.3% within QC Limits. See Figure 13.	X X X X X X X X	 X X
Spikes Recovery: MSD RPD MS/MSD	 Acceptable Acceptable Acceptable	4 MS/MSD analyses were conducted; results of 3 of them were acceptable. Spike Recoveries were not detected for samples #LL1SB-645M-0102- MS & MSD due to low spike concentrations, below reporting limits	 X	 X X
PCB Completeness	**Fill in number of samples analyzed & Total number of requested analyses from Chain of Custody (s)** 99 | 99 | **100%**			X

3. Analysis Continued:			Compliance	
3.4 Organochlorine Pesticides			N	Y
Method Number: **EPA 8081B**	Correct Analysis: Y	Indicate only wrong method(s) used:		X
Reported MDL	Y			X
RL/MRL	High due to Dilution		X	
VOC Trip Blank	NA			
Method Blank (MB)	Present			X
Rinsates Blank	Present			X
Spikes Recovery: LCSs	Acceptable			X
LCSD	Not Required			
Surrogates:		Unacceptable Surrogate recoveries, recoveries exceeded the upper limits for samples, -MS and –MSD. An Example, sample LL4SS416M0001/0002-SO was diluted, DF=20 and showed no pesticides detected; the TCX surrogate was recovered at 1220% out of the QC limits (70-125). There is a technical problem.		
MB	Acceptable			X
LCS	Acceptable			X
LCSD	Not Required			
Samples	> QC limits		X	
MS	> QC Limits			
MSD	> QC Limits			
	> QC Limits			
Spikes Recovery:		Several spike recoveries were out of the QC limits.		
MS	>QC Limits		X	
MSD	> QC Limits		X	
RPD	Acceptable			X
MS/MSD	Not Acceptable		X	

<table>
<tr><td colspan="3">3. Analysis Continued:</td><td colspan="2">Compliance</td></tr>
<tr><td colspan="3">3.4 Organochlorine Pesticides (Continued)</td><td>N</td><td>Y</td></tr>
<tr><td rowspan="4">Spikes Recovery:
MS
MSD
RPD
MS/MSD</td><td></td><td rowspan="2">Continued.</td><td rowspan="3"></td><td rowspan="3"></td></tr>
<tr><td>> QC Limits</td></tr>
<tr><td>> QC Limits</td></tr>
<tr><td>Acceptable</td><td>Two RPDs were reported incorrectly for sample LL4SS416M0001/0002 -Ms/M SD; RPD = 200 for alpha-BHC & Endrin ketone. Recalculating RPD gave results of 34 and 0.9 respectively.
Also two RPDs for sample #LL1SB-645M-0103-SO was reported incorrectly equal to 200 each, recalculation of the RPDs showed results 2.6 for Endosulfane I and 45.3 for Endrin.</td><td>X

X</td><td>X

X</td></tr>
<tr><td>Pesticides Completeness</td><td colspan="2">Fill in number of samples analyzed & Total number of requested analyses from Chain of Custody (s)
<table>
<tr><td>Number Samples Analyzed</td><td>Total Number Analyses</td><td>Results</td></tr>
<tr><td>17</td><td>17</td><td>100%</td></tr>
</table></td><td></td><td></td></tr>
</table>

3. Analysis Continued:			Compliance	
3.5 Nitroaromatics, Nitramines, Nitrate Esters Analysis			N	Y
Method Number: **EPA 8330B**	Correct Analysis: Y	Indicate only wrong method(s) used:		X
Reported MDL	Y			X
RL/MRL	Acceptable			X
Method Blank (MB)	Present			X
Rinsates Blank	Present			X
Spikes Recovery: LCSs	Acceptable			X
RPD LCS/LCSD	Not Required			X
Surrogates:				
MB	Acceptable	The mean surrogate 3,4-dinitrotoluene recovery was 91.5%, within QC limits. See Figure 14.		X
LCS	Acceptable			X
LCSD	Not Required			
Samples	Acceptable			X
MS	Acceptable			X
MSD	Acceptable			X
Spikes Recovery:				
MS	Acceptable			X
MSD	Acceptable			X
RPD MS/MSD	Acceptable			X
Explosive Completeness	**Fill in number of samples analyzed & Total number of requested analyses from Chain of Custody (s)** Number Samples Analyzed: 27 Total Number Analyses: 27 Results: **100%**			X

3. Analysis Continued			Compliance	
3.6 Metal Analytes			N	Y
Method Number: **EPA 6020**	Correct Analysis: No	Indicate only different method(s) used: EPA 6020 was used in place of requested EPA 6010B on C.O.C.		X
Reported MDL	Y			X
RL/MRL	Acceptable			X
Method Blank (MB)	Present			X
Rinsates Blank	Present			X
Analyte Spikes Recovery: LCSs	Acceptable			X
Analyte Spikes Recovery: Samples Pr-Digested Spike	Choose an item. > QC Limits	Laboratory performed MS/MSD experiments that do not provide any technical information in Metal Analysis. Duplicate analysis should have been performed instead.	X	
Post-Digested Spike	Not Performed			
Analyte Recovery: Sample Duplicate	Acceptable Required	Not Performed	X	
RPD	Not Applicable	Duplicate Analysis should have been performed.		
Metal Completeness	**Fill in number of samples analyzed & Total number of requested analyses from Chain of Custody (s)** Number Samples Analyzed: 25 Total Number Analyses: 25 Results: **100%**			X

3. Comparability:				Compliance	
				N	Y
	Agreement Between QC & QA Sample Results		Remarks. Noticeable Agreements between QA and QC results at RPD <12; Maximum Allowable RPD ≤50.		
	No*	Yes			
Volatile Organics EPA 8260B	Choose an item.		Toluene was detected at low levels in some samples. See Tables 1-4.	X	
Semi-Volatile Org EPA 8270C		Yes	See Tables 5-11,		X
Samples:			RPD		
L12SS-301M-0001-SO			Naphthalene 10.5		
L12SS-301M-0001-SO			Benzo(b)fluoranthene 9.8		
LL4SS-417M-0001-SO			Naphthalene 11.3		
LL3SD-417M-0001-SD			Acenaphthene 0.0		
LL2SS-517M-0001-SO			Naphthalene 7.4		
LL2SS-517M-0001-SO			Fluoranthene 2.8		
LL2SS-517M-0001-SO			Pyrene 3.6		
LL2SS-517M-0001-SO			Benzo(a)anthracene 6.1		
LL2SS-517M-0001-SO			Chrysene 6.4		
LL2SS-517M-0001-SO			Benzo(k)fluoranthene 2.1		
LL2SS-517M-0001-SO			Benzo(a)pyrene 5.7		
LL2SS-517M-0001-SO			Indeno(1,2,3-cd)pyrene 9.5		
LL1SB-645M-0101-SO			Fluoranthene 6.6		
LL1SB-645M-0101-SO			Pyrene 5.5		
PCB/EPA 8082B		Yes	See Tables 12-18.		X
LL1SB-645M-0102-SO			Aroclor 1254 0.0		
LL1SB-645M-0103-SO			Aroclor 1254 4.2		
LL3SD-417M-0001-SD			Aroclor 1254 1.2		
Pesticides: EPA 8081B	NO		See Tables 19-25. See Item #5 for details.	X	
Explosive Residues: EPA 8330B/MOD		Yes	Most of the results were either non-detect or below the RL. See Tables 26-30.		X
Nitro-cellulose		Yes			
Metals, EPA 6020		Yes	See Tables 31-38.		X
Samples:					
LL3SD-417M-0001-SD			Aluminum 12.0		
LL3SD-417M-0001-SD			Arsenic 0.8		
LL3SD-417M-0001-SD			Beryllium 0.0		
LL3SD-417M-0001-SD			Calcium 8.8		

4 Comparability (Continued):				Compliance	
				N	Y
Evaluations	Agreement Between QC & QA Sample Results		Remarks. Noticeable Agreements between QA and QC results at RPD <12; Maximum Allowable RPD ≤50.		
	No*	Yes			
Metals, Continued:		Yes			X
EPA 6020			See Tables 31-38.		
Samples:			RPD		
LL1SB-645M-0102-SO			Barium 8.4		
LL1SB-645M-0102-SO			Iron 0.8		
LL1SB-645M-0102-SO			Magnesium 2.1		
LL4SS-417M-0001-SO			Aluminum 8.6		
LL4SS-417M-0001-SO			Arsenic 7.0		
LL4SS-417M-0001-SO			Beryllium 0.0		
LL4SS-417M-0001-SO			Calcium 2.1		
LL4SS-417M-0001-SO			Cobalt 3.1		
LL4SS-417M-0001-SO			Iron 9.5		
LL4SS-417M-0001-SO			Magnesium 0.0		
LL4SS-417M-0001-SO			Manganese 3.1		
LL4SS-417M-0001-SO			Potassium 2.4		
LL4SS-417M-0001-SO			Selenium 3.6		
LL4SS-417M-0001-SO			Vanadium 7.8		
LL2SS-517M-0001-SO			Aluminum 11.8		
LL2SS-517M-0001-SO			Arsenic 7.3		
LL2SS-517M-0001-SO			Iron 7.7		
LL2SS-517M-0001-SO			Magnesium 5.5		
L12SS-301M-0001-SO			Barium 10.8		
L12SS-301M-0001-SO			Copper 2.3		
L12SS-301M-0001-SO			Iron 11.9		
LL1SB-645M-0101-SO			Manganese 8.1		

3. Summary of Non-conformances:	
Organochlorine Pesticide Analysis/EPA8081B	
Sample Numbers:	Remarks
LL4SS-417M-0001-SO	Major discrepancies/No Agreements between QC & QA results. <u>False Negative Results</u>: δ-BHC 4,4'-DDE 4,4'-DDT Endosulfane I Endosulfane II Endrin Heptachlor Methoxychlor
LL3SD-417M-0001-SD	Major discrepancies/ No Agreements between QC & QA results. <u>False Negative Results</u>: 4,4'-DDE Endosulfane II Heptachlor Heptachlor epoxide <u>False Positive Results</u>: β-BHC at 130 µg/kg
L12SS-301M-0001-SO	Major discrepancies/ No Agreements between QC & QA results. <u>False Negative Results</u>: 4,4'-DDE Endosulfane I Endrin Endrin aldehyde Heptachlor Heptachlor epoxide
5 - Summary of Non-conformances Continued:	
Organochlorine Pesticide Analysis/EPA8081B (Continued)	
QC-Sample Numbers	Remarks
LL2SS-517M-0001-SO	Major discrepancies/ No Agreements between QC & QA results. <u>False Negative Results</u>: 4,4'-DDE Dieldrin

	Endrin aldehyde Heptachlor epoxide
LL1SB-645M-0101-SO	Only one analyte (4,4'-DDE) was in minor disagreement with its counterpart in the QA sample results, RPD = 53.3, out of the QC limits of 50. All remaining analytes had major discrepancies with their counterparts in the QA-sample. False Negative Results: γ-Chlordane Dieldrin Heptachlor epoxide
LL1SB-645M-0102-SO	4,4'-DDE analyte was in minor disagreement with its counterpart in the QA sample results, RPD = 80, out of the QC limits of maximum allowable 50. Endrin aldehyde was in agreement with its QA result, RPD = 43.5. All remaining analytes had major discrepancies with their counterparts in the QA-sample, no agreements. False Negative Results: Dieldrin Heptachlor epoxide Methoxychlor False Positive Results: α-Chlordane at 650 µg/kg Endosulfane I at 13 µg/kg Endrin at 16 µg/kg
5 - Summary of Non-conformances Continued:	
Organochlorine Pesticide Analysis/EPA8081B (Continued)	
QC-Sample Numbers	Remarks
LL1SB-645M-0103-SO	Only 4,4'-DDE analyte was in agreement with its QA result, RPD = 31.0. False Negative Results: Aldrin γ-Chlordane Dieldrin False Positive Results: β-BHC at 28 µg/L 4,4'-DDT at 20 µg/L Endosulfane I at 13 µg/L Endrin at 36 µg/L

Pesticide Analysis:
One of the major discrepancies between the QC and QA samples was the negative results in QC results due to dilution of sample extracts in the primary laboratory, TestAmerica laboratories. High dilution raised reporting limits above levels of contaminants; some levels of analytes became non-detectable at these levels. TestAmerica did not perform any cleanup steps before analysis of sample extracts. Recommend using either GPC Method EPA3640 or SGC Method EPA 3630 before analysis. TestAmerica reported results of primary columns, and not confirmation columns results. There were discrepancies between results of both columns indicating instrumental problems in addition to inadequate sample preparations.

Conclusion:
Results of Organochlorine Pesticide analyses are unacceptable, and recommend rejecting these results produced by TestAmerica Laboratories, North Canton, Ohio

Acknowledgment:
I certify this review package is in compliance with the terms and conditions of the contract, both technically and for completeness other than was/were outlined in the tables above. Release of the hardcopy review data package and/or in the computer ADR/EDMS on CD has been authorized by Prudent Reviewer, as verified by the following signature.

Signature: Samir Mansy

Name: Samir A. Mansy, PhD

Date: 10/10/2011

Title: Senior Chemist

SECTION I

Surrogate Recovery Graphs

Volatile Organic Analysis:

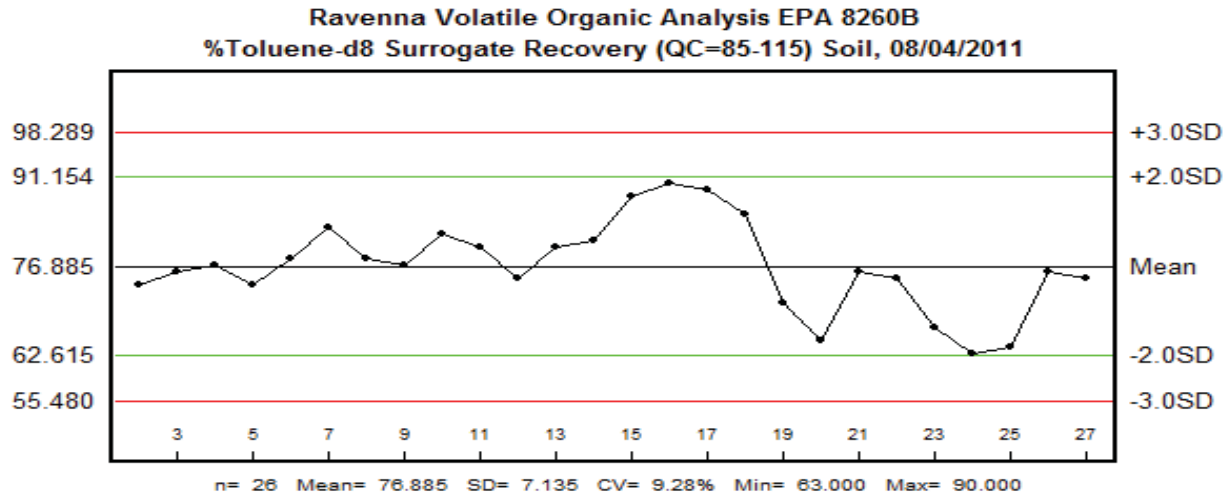


Figure 1

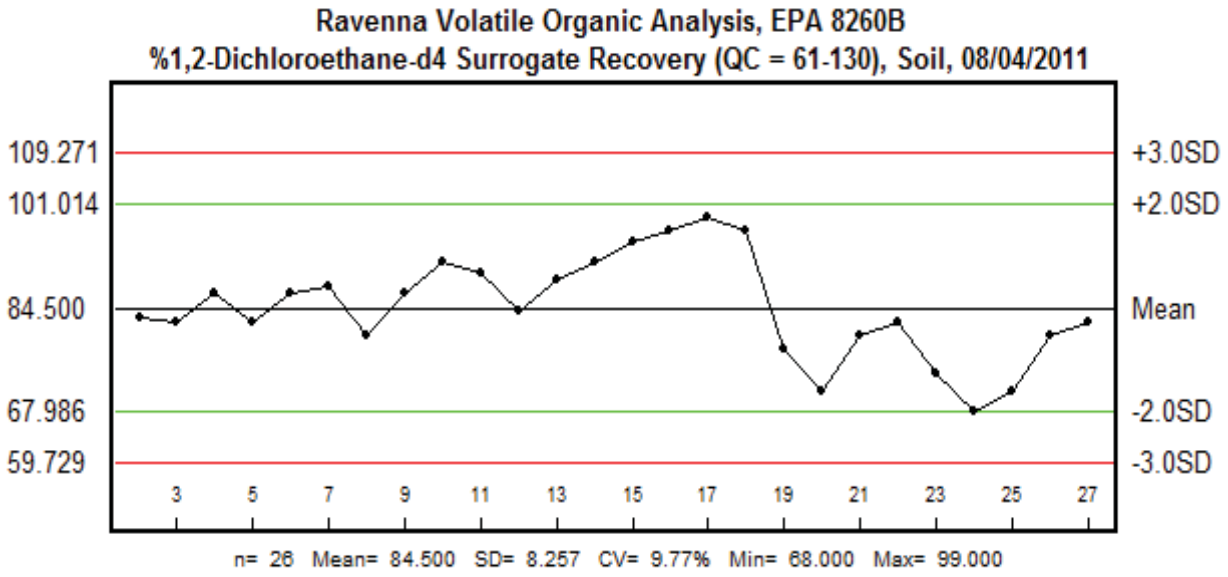


Figure 2

Volatile Organic Analysis:

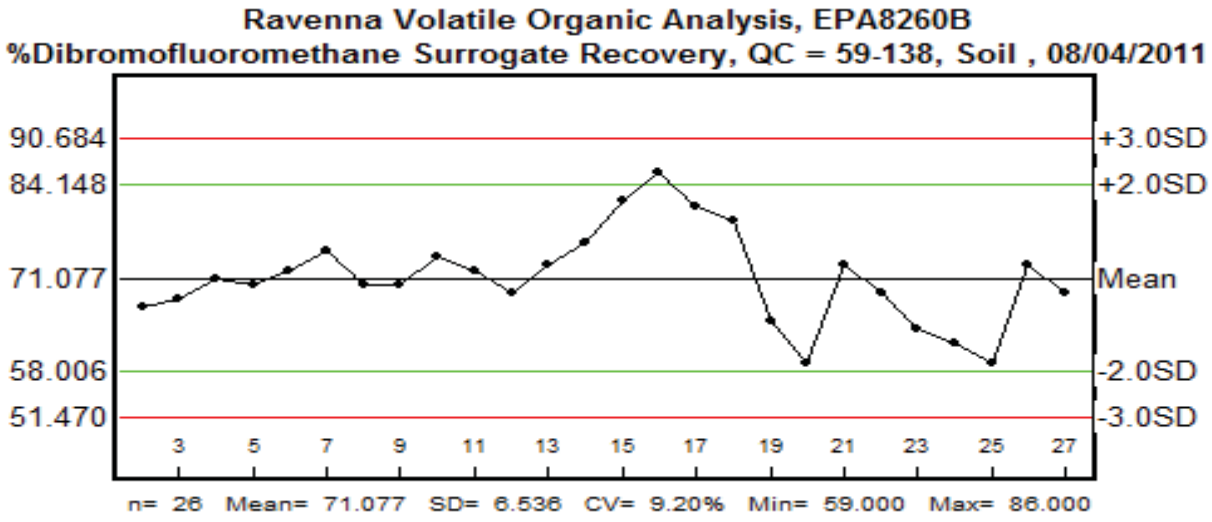


Figure 3

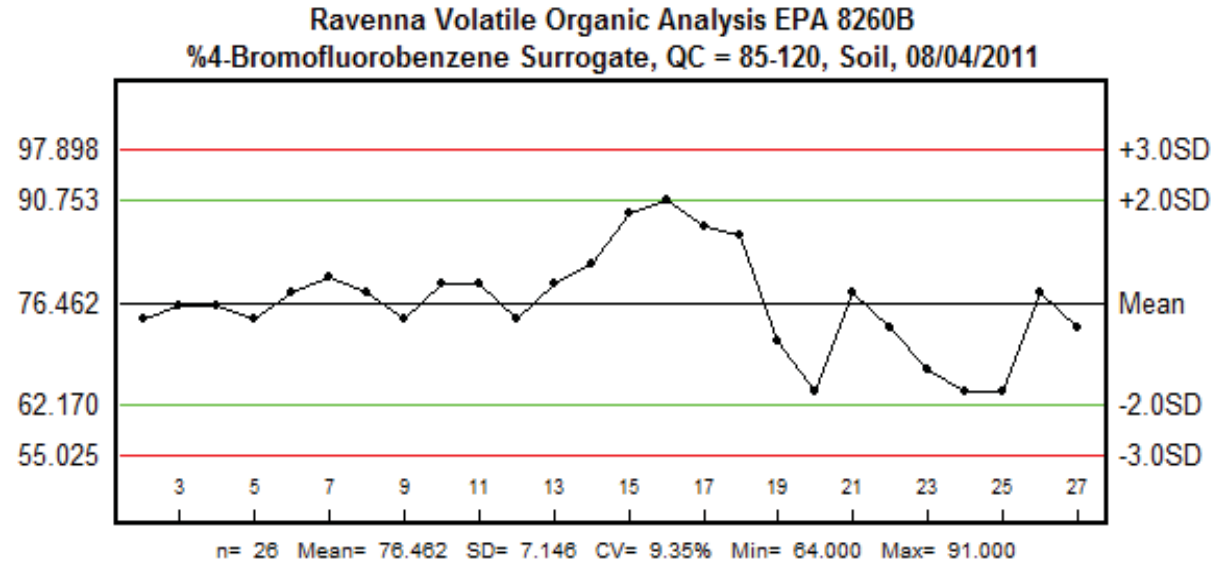


Figure 4

Semivolatile Organic Analysis

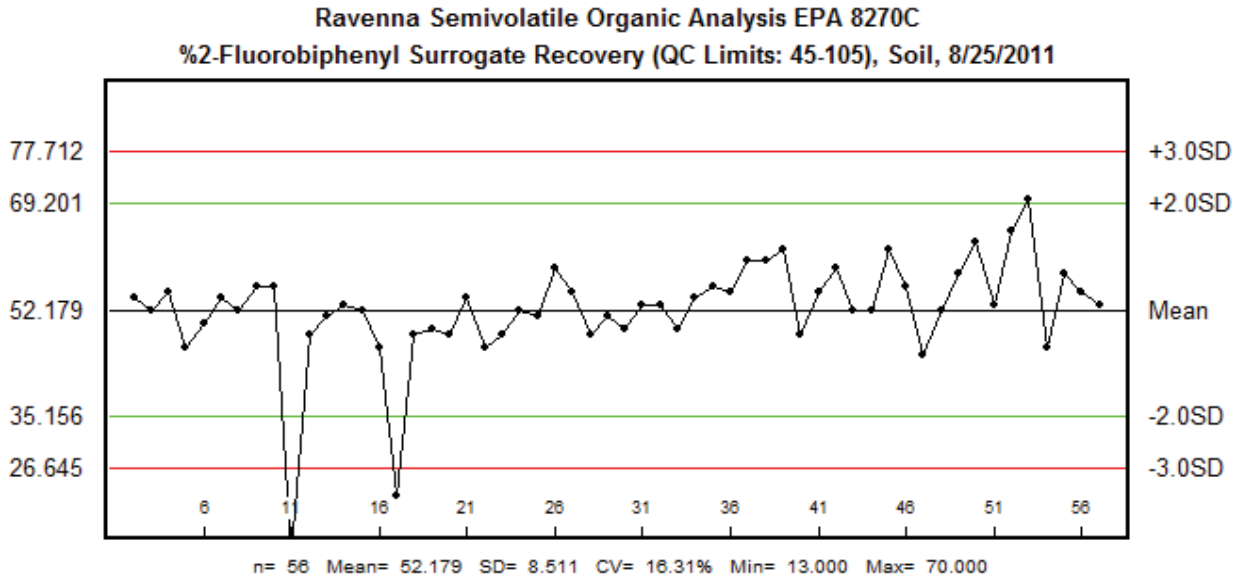


Figure 5

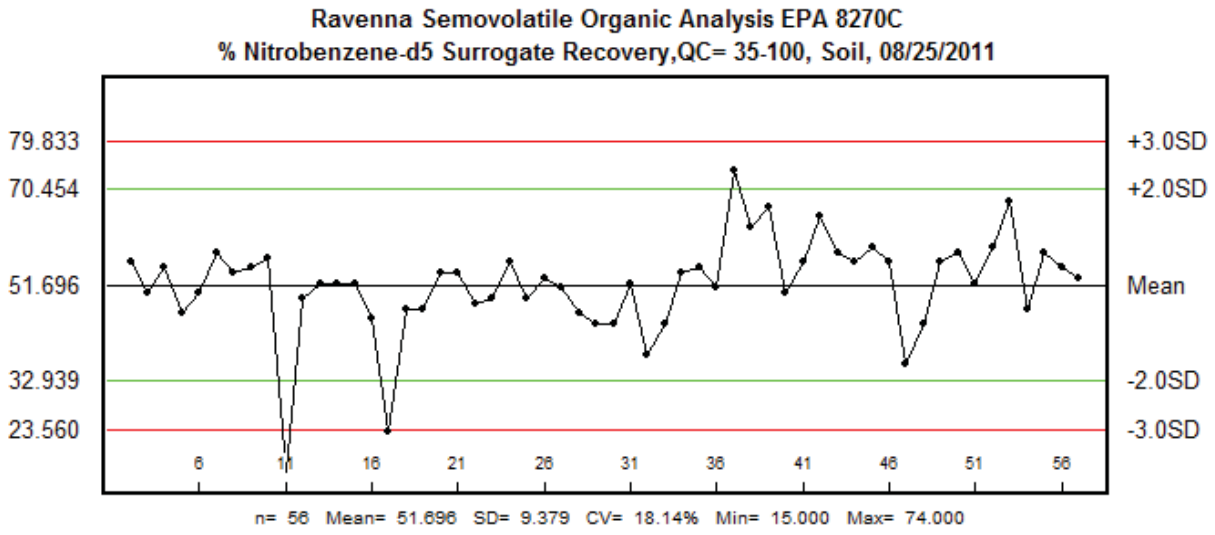


Figure 6

Semivolatile Organic Analysis:

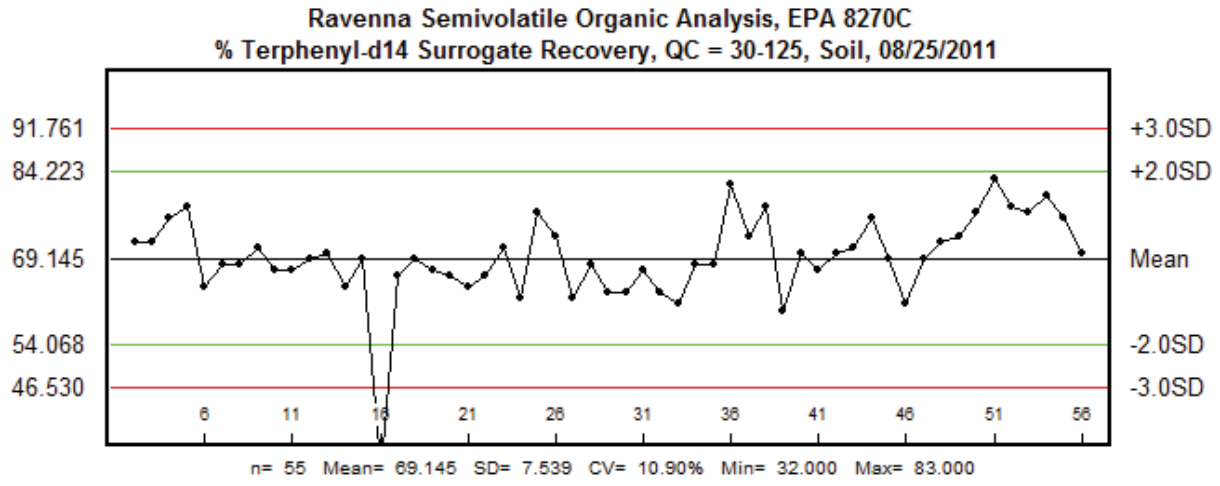


Figure 7

Semivolatile Organic Analysis:

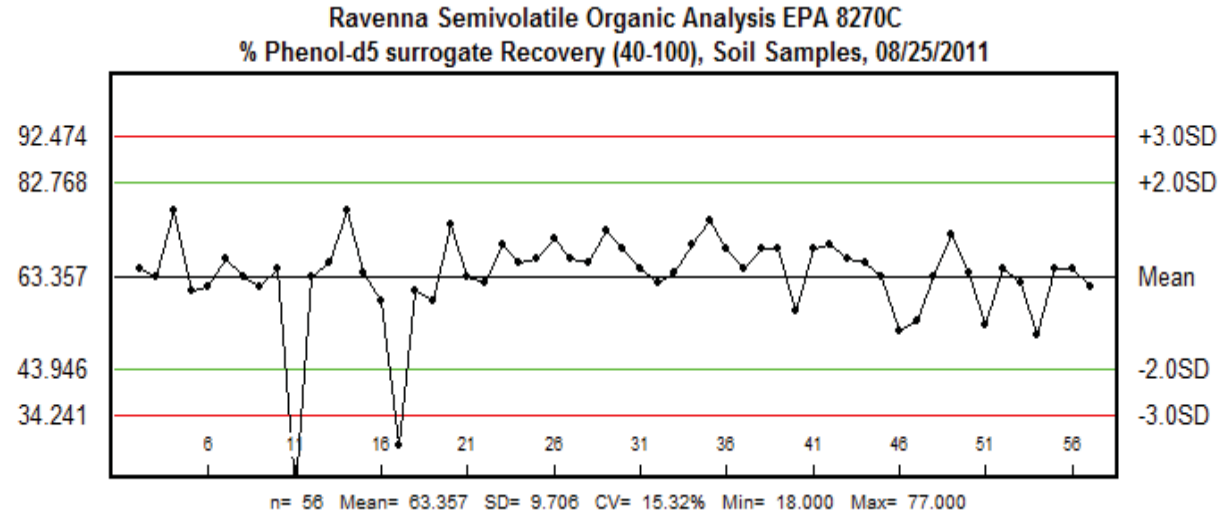


Figure 8

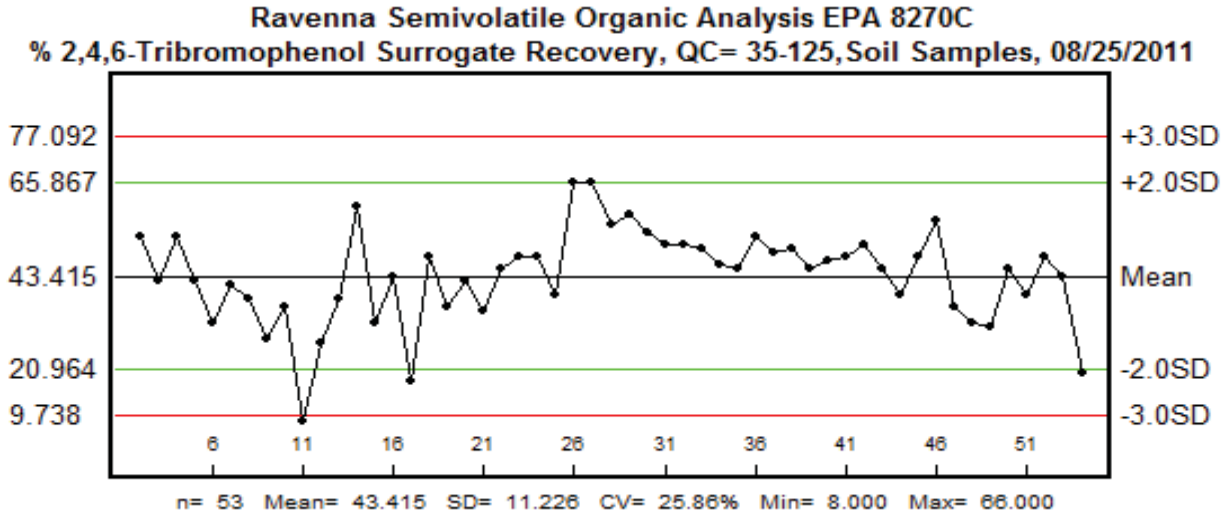


Figure 9

Semivolatile Organic Analysis:

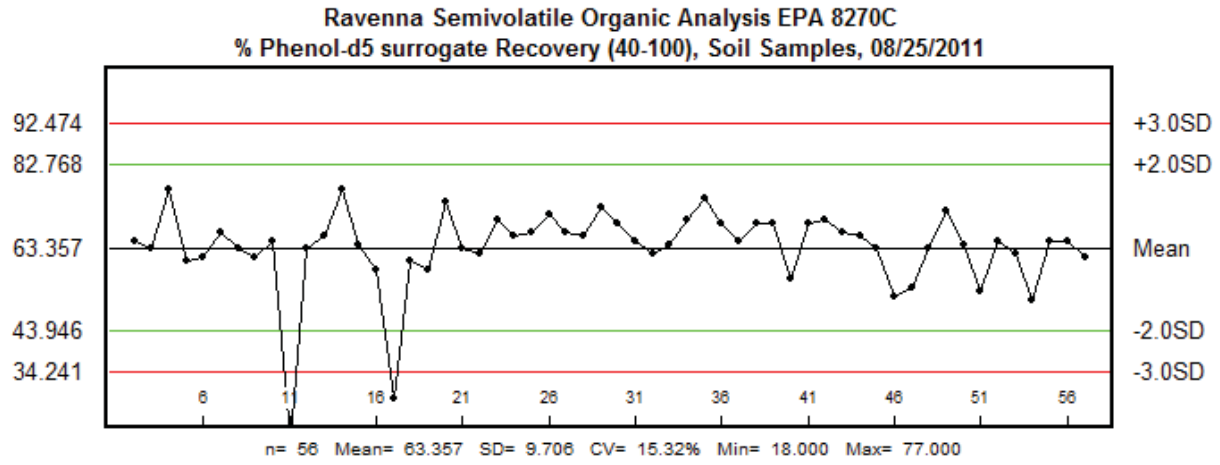


Figure 10

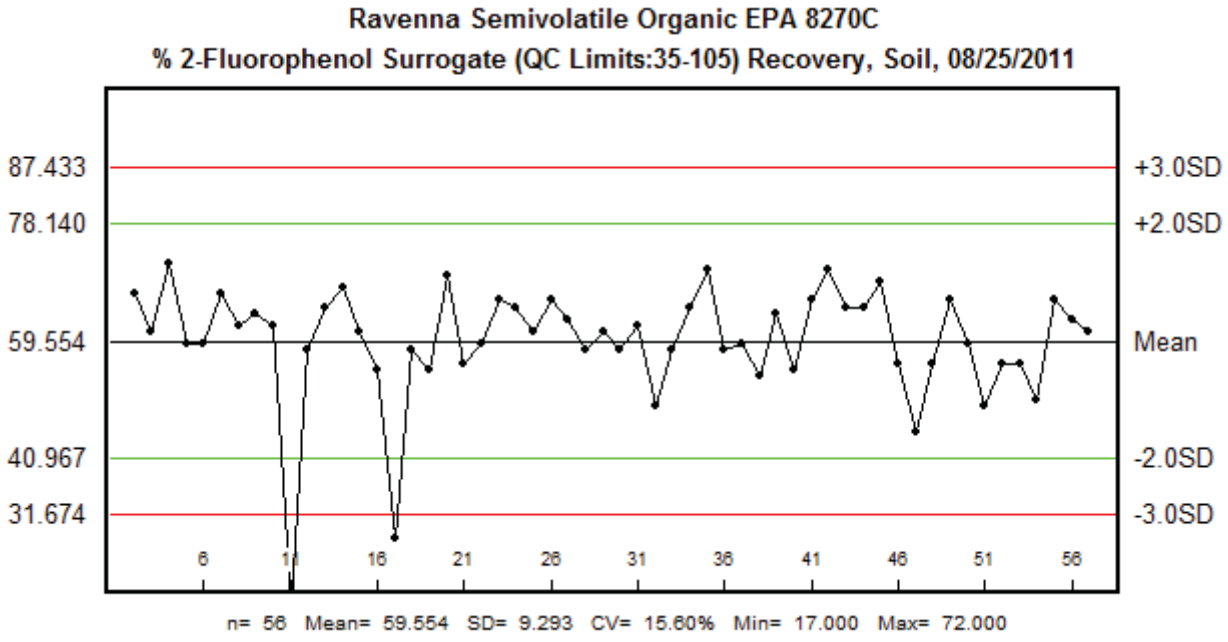


Figure 11

Polychlorinated Biphenyl (PCB) Analysis:

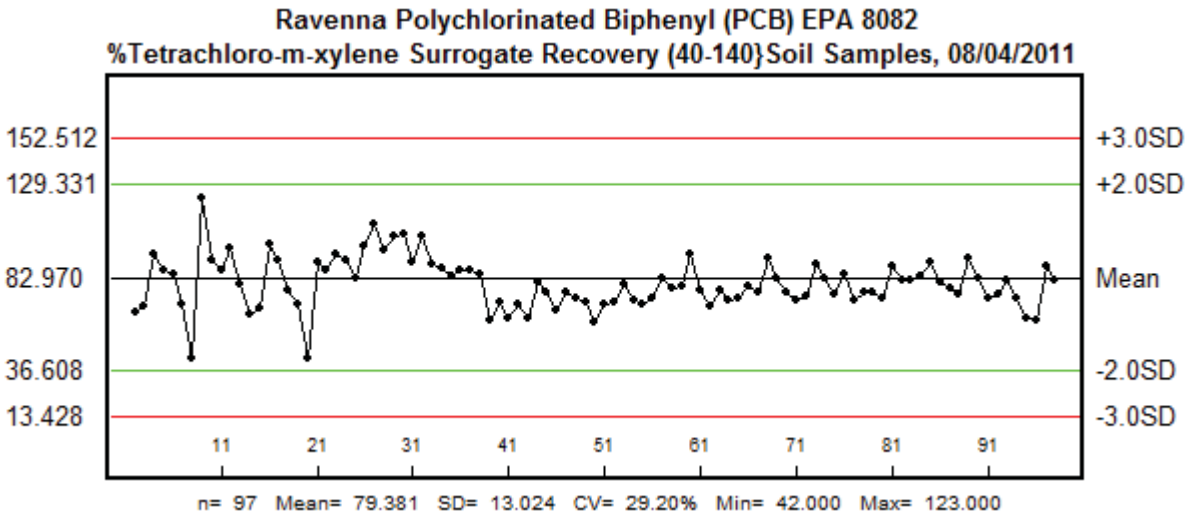


Figure 12

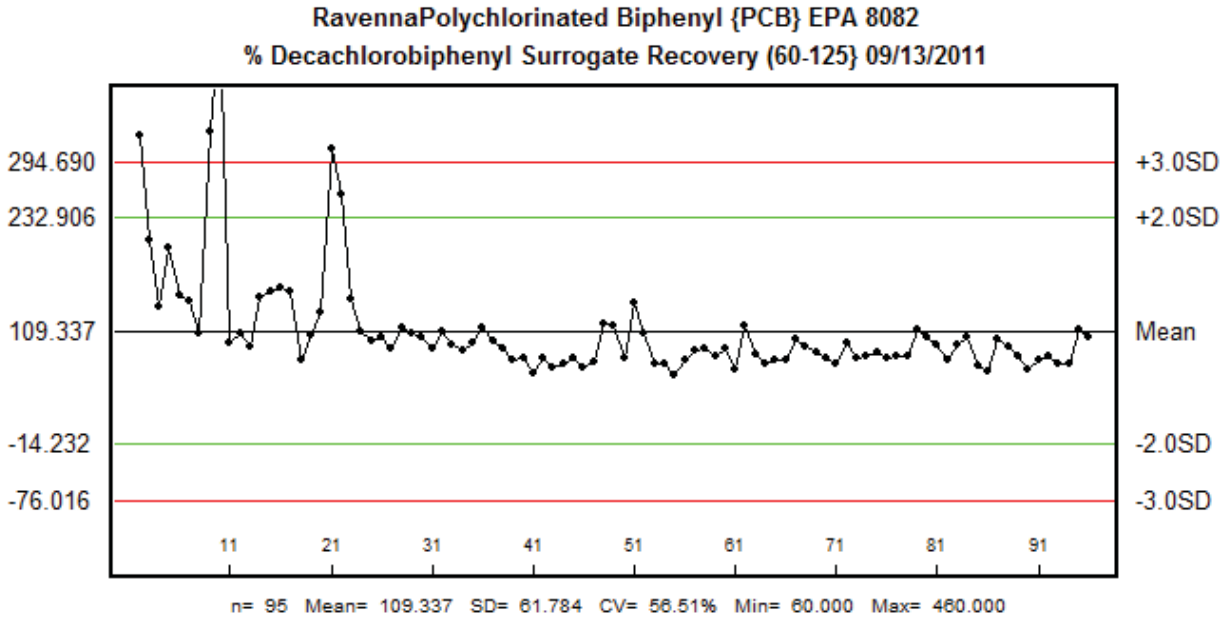


Figure 13

Nitroaromatics & Nitroamines Explosive Analysis:

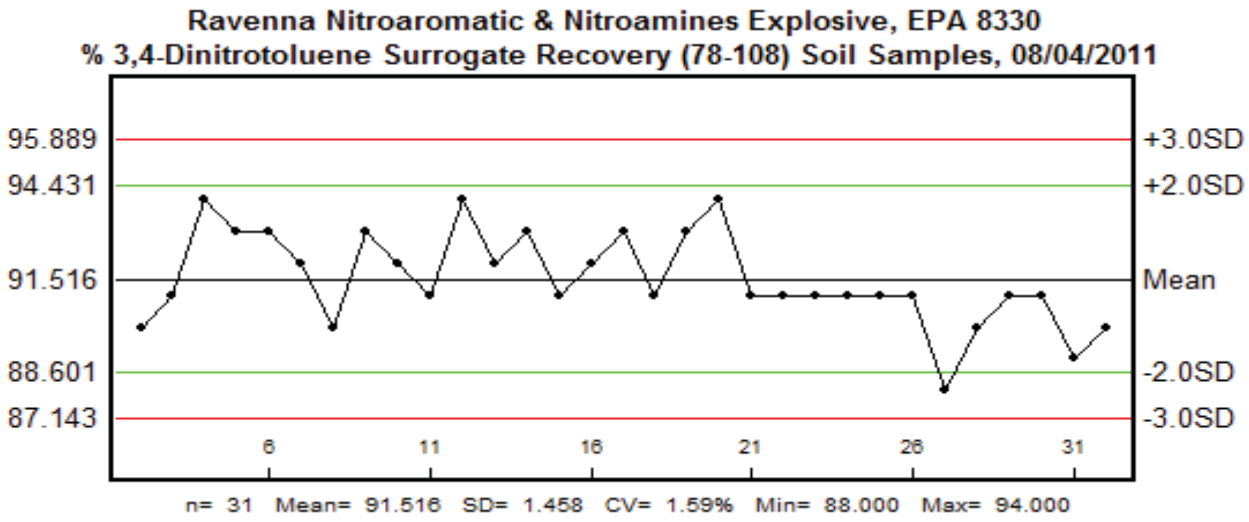


Figure 14

SECTION II

Surrogate Recovery Data

Nitroaromatic & Nitroamines Analysis
Ravenna Surrogate Recoveries 2011

TestAmerica Laboratory

Ravenna	%DNT SURROGATE	Explosive Residues Analysis
LL3SD-416M-0001-SD	90	
LL3SD-417M-0001-SD	91	
LL2SS-516M-0001-SO	94	
LL2SS-516M-0001-SO	93	MS
LL2SS-516M-0001-SO	93	MSD
LL2SS-517-M-0001-SO	92	
LL2SS-301M-0001-SO	90	
LL1SB-644M-0101-SO	93	
LL1SB-644M-0102-SO	92	
LL1SB-644M-0103-SO	91	
LL1SB-645M-0101-SO	94	
LL1SB-645M-0102-SO	92	
LL1SB-645M-0103-SO	93	
LL1SB-640M-0101-SO	91	
LL1SB-640M-0102-SO	92	
LL1SB-640M-0103-SO	93	
LL2SS-300M-0001-SO	91	
METHOD BLANK	93	
LCS	94	
CHASS-0001M-0001-SO	91	
CHASS-0001M-0001-SO	91	Duplicate
CHASS-0001M-0001-SO	91	Spike
CHASS-0002M-0001-SO	91	
Method Blank	91	
LCS	91	
LL4SS-416M-0001/0002-SO	88	
LL4SS-416M-0001/0002-SO MS	90	Spike
LL4SS-416M-0001/0002-SO MSD	91	Spike Duplicate
LL4SS=417M-0001-SO	91	
Method Blank	89	
LCS	90	

Polychlorinated Biphenyl Analysis

PCB	% DCB Recov Decachlorobipheny Surrogate Recovery
LL3SD-416M-0001-SD	322
LL3SD-417M-0001-SD	208
LL2SS-519M-0001-SO	135
LL2SS-516M-0001-SO	200
LL2SS-516M-0001-SO	147
LL2SS-516M-0001-SO	142
LL2SS-517M-0001-SO	106
L12SS-300M-0001-SO	327
L12SS-301M-0001-SO	460
LL1SB-644M-0101-SO	95
LL1SB-645-0101-SO	107
LL1SB-645M-0103-SO	91
LL3SD-416M-0001-SD	146
LL3SD-417M-0001-SD	152
LL2SS-519M-0001-SO	156
LL2SS-516M-0001-SO	152
LL2SS-516M-0001-SO	78
LL2SS-516M-0001-SO	104
LL2SS-517M-0001-SO	129
L12SS-300M-0001-SO	307
L12SS-301M-0001-SO	257
LL1SB-644M-0101-SO	144
LL1SB-645-0101-SO	108
LL1SB-645M-0103-SO	97
LCS	102
LCS	90
LCS	112
LCS	107
Method Blank	102
Method Blank	90
Method Blank	109
Method Blank	94
CHASS-0001M-0001-SO	88
CHASS-0001M-0001-SO	95
CHASS-0001M-0001-SO	113
CHASS-0001M-0001-SO	98
LCS	90
LL4SS-416M-0001/0002-SO	78
LL4SS-416M-0001/0002-SO	80

LL4SS-416M-0001/0002-SO MS	62
LL4SS-416M-0001/0002-SO MSI	79
LL4SS=417M-0001-SO	68
LCS	72
LCS	79
Method Blank	69
Method Blank	75
LL4SS-416M-0001/0002-SO	117
LL4SS-416M-0001/0002-SO	115
LL4SS-416M-0001/0002-SO MS	80
LL4SS-416M-0001/0002-SO MSI	140
LL4SS=417M-0001-SO	106
LCS	73
LCS	73
Method Blank	60
Method Blank	77
LL2SB-514M-0101-SO	87
LL2SB-514M-0102-SO	89
LL2SB-514M-0103-SO	82
LL2SB-515M-0101-SO	90
LL2SB-515M-0103-SO	67
LL2SB-513M-0101-SO	114
LL2SB-513M-0102-SO	84
LL2SB-513M-0103-SO	74
LL2SB-513M-0103-SO MS	77
LL2SB-513M-0103-SO MSD	77
LCS	101
Method Blank	91
LL2SB-514M-0101-SO	85
LL2SB-514M-0102-SO	79
LL2SB-514M-0103-SO	72
LL2SB-515M-0101-SO	95
LL2SB-515M-0103-SO	79
LL2SB-513M-0101-SO	82
LL2SB-513M-0102-SO	85
LL2SB-513M-0103-SO	80
LL2SB-513M-0103-SO MS	81
LL2SB-513M-0103-SO MSD	81
LCS	110
Method Blank	102
LL3SB-412M-0101-SO	94
LL3SB-412M-0102-SO	78
LL3SB-424M-0001-SO	93

LL3SB-423M-0001-SO	103	
LL3SB-413M-0102-SO	71	
LL3SB-413M-0103-SO	64	
LCS	101	
Method Blank	91	
LL3SB-412M-0101-SO	81	
LL3SB-412M-0102-SO	67	
LL3SB-424M-0001-SO	78	
LL3SB-423M-0001-SO	82	
LL3SB-413M-0102-SO	72	
LL3SB-413M-0103-SO	73	
LCS	110	
Method Blank	102	

LL3SB-413M-0101-SO	0	Dilution DF = 200
LL2SB-515M-0102-SO	168	Dilution DF = 2
LL2SB-515M-0102-SO	176	Dilution DF = 2
LL1SB-644M-0102-SO	0	Dilution
LL1SB-644M-0102-SO	0	Dilution
LL1SB-645M-0102-SO	0	Dilution
LL1SB-645M-0102-SO MS	0	Dilution
LL1SB-645M-0102-SO MSD	0	Dilutin

Polychlorinated Biphenyl

PCB	%TCX Recove	Ravenna 08/04/2011	
LL3SD-416M-0001-SD	65	TCX1	
LL3SD-417M-0001-SD	68		
LL2SS-519M-0001-SO	95		
LL2SS-516M-0001-SO	86		
LL2SS-516M-0001-SO	84	MS	
LL2SS-516M-0001-SO	69	MSD	
LL2SS-517M-0001-SO	42		
L12SS-300M-0001-SO	123		
L12SS-301M-0001-SO	92		
LL1SB-644M-0101-SO	86		
LL1SB-645-0101-SO	98		
LL1SB-645M-0103-SO	79		
LL3SD-416M-0001-SD	64	TCX2	
LL3SD-417M-0001-SD	67		
LL2SS-519M-0001-SO	100		
LL2SS-516M-0001-SO	91		
LL2SS-516M-0001-SO	76	MS	
LL2SS-516M-0001-SO	69	MSD	
LL2SS-517M-0001-SO	42		
L12SS-300M-0001-SO	90		
L12SS-301M-0001-SO	86		
LL1SB-644M-0101-SO	95		
LL1SB-645-0101-SO	91		
LL1SB-645M-0103-SO	82		
LCS	99		
LCS	110		
LCS	97		
LCS	104		
Method Blank	105		
Method Blank	90		
Method Blank	104		
Method Blank	89		
CHASS-0001M-0001-SO	87		
CHASS-0001M-0001-SO	83		
CHASS-0001M-0001-SO	86		
CHASS-0001M-0001-SO	86		
LCS	84		
LL4SS-416M-0001/0002-SO	61		TCX1
LL4SS-416M-0001/0002-SO	70		

LL4SS-416M-0001/0002-SO MS	62	
LL4SS-416M-0001/0002-SO MSD	69	
LL4SS=417M-0001-SO	62	
LCS	80	
LCS	75	
Method Blank	66	
Method Blank	75	
LL4SS-416M-0001/0002-SO	72	TCX2
LL4SS-416M-0001/0002-SO	70	
LL4SS-416M-0001/0002-SO MS	60	
LL4SS-416M-0001/0002-SO MSD	69	
LL4SS=417M-0001-SO	70	
LCS	79	
LCS	71	
Method Blank	69	
Method Blank	72	
LL2SB-514M-0101-SO	82	
LL2SB-514M-0102-SO	77	
LL2SB-514M-0103-SO	78	
LL2SB-515M-0101-SO	95	
LL2SB-515M-0102-SO	76	
LL2SB-515M-0103-SO	68	
LL2SB-513M-0101-SO	76	
LL2SB-513M-0102-SO	71	
LL2SB-513M-0103-SO	72	
LL2SB-513M-0103-SO MS	78	
LL2SB-513M-0103-SO MSD	75	
LCS	93	
Method Blank	82	
LL2SB-514M-0101-SO	75	
LL2SB-514M-0102-SO	71	
LL2SB-514M-0103-SO	73	
LL2SB-515M-0101-SO	89	
LL2SB-515M-0102-SO	82	
LL2SB-515M-0103-SO	74	
LL2SB-513M-0101-SO	84	
LL2SB-513M-0102-SO	71	
LL2SB-513M-0103-SO	75	
LL2SB-513M-0103-SO MS	75	
LL2SB-513M-0103-SO MSD	72	
LCS	88	
Method Blank	81	
LL3SB-412M-0101-SO	81	

LL3SB-412M-0102-SO	83	
LL3SB-424M-0001-SO	90	
LL3SB-423M-0001-SO	80	
LL3SB-413M-0102-SO	77	
LL3SB-413M-0103-SO	74	
LCS	93	
Method Blank	82	
LL3SB-412M-0101-SO	72	
LL3SB-412M-0102-SO	74	
LL3SB-424M-0001-SO	81	
LL3SB-423M-0001-SO	72	
LL3SB-413M-0102-SO	62	
LL3SB-413M-0103-SO	61	
LCS	88	
Method Blank	81	
LL3SB-413M-0101-SO	0	Dilution DF=200

Semivolatile Organic Analysis

	QC=35-100	
Ravenna	NBZ	% Nitrobenzene-d5 Surrogate Recovery Soil EPA8270C
LL3SB-414M-0101-SO	56	
LL3SB-414M-0103-SO	50	
LCS	55	
Method BLank	46	
LL4SB-411M-0101-SO	50	
LL4SB-411M-0102-SO	58	
LL4SB-411M-0103-SO	54	
LL4SB-407M-0101-SO	55	
LL4SB-407M-0102-SO	57	
LL4SB-407M-0103-SO	15	Q
LL4SB-410M-0101-SO	49	
LL4SB-410M-0102-SO	52	
LL4SB-410M-0103-SO	52	
LL4SB-415M-0101-SO	52	
LL4SB-415M-0102-SO	45	
LL4SB-415M-0103-SO	23	Q
LL4SB-413M-0101-SO	47	
LL4SB-413M-0102-SO	47	
LL4SB-413M-0103-SO	54	
LL4SB-413M-0103-SO MS	54	
LL4SB-413M-0103-SO MSD	48	
LCS	49	LCS 240-7706/22-A
Method Blank	56	MB 240-7706/21-A
LL4SB-412M-0001-SO	49	
LL4SB-414M-0001/0002-SO	53	
LL4SB-414M-0001/0002-SO MS	51	
LL4Sb-414M-0001/0002-SO MSD	46	
LL4SB-419M-0001-SO	44	
LL4SB-420M-0001-SO	44	
LL4SB-421M-0001-SO	52	
LL4Sb-416M-0001/0002-SO	38	
LL4SB-416M-0001/0002-SO MS	44	
LL4SB-416M-0001/0002-SO MSD	54	
LL4SB-417M-0001-SO	55	
L12SS-305M-0001-SO	51	
L12SS-304M-0001/0002-SO	74	
L12SS-304M-0001/0002-SO MS	63	
L12SS-304M-0001/0002-SO MSD	67	
LCS	50	
LCS	56	

Method Blank	65	
Mehtod Blank	58	
Method Blank	56	
LL3SB-422M-0001-SO	59	
LL2SS-519M-0001-SO	56	
LL2SS-516M-0001-SO	36	
LL2SS-516M-0001-SO MS	44	
LL2SS-516M-0001-SO MSD	56	
LL1SB-641M-0101-SO	58	
LL1SB-641M-0102-SO	52	
LL1SB-641M-0103-SO	59	
LL1SB-642M-0101-SO	68	
LL1SB-642M-0102-SO	47	
LL1SB-642M-0103-SO	58	
LCS	55	
Method BLank	53	
LL3SB-414M-0102-SO	0	Dilution, DF = 200

Semivolatile Organic Analysis

	QC=35-125	
Ravenna	%TBP	% 2,4,6-Tribromophenol surrogate Recovery, Soil Samples EPA8270C
LL3SB-414M-0101-SO	53	
LL3SB-414M-0103-SO	42	
LCS	53	
Method BLank	42	
LL4SB-411M-0101-SO	32	Q
LL4SB-411M-0102-SO	41	
LL4SB-411M-0103-SO	38	
LL4SB-407M-0101-SO	28	
LL4SB-407M-0102-SO	36	
LL4SB-407M-0103-SO	8	Q
LL4SB-410M-0101-SO	27	Q
LL4SB-410M-0102-SO	38	
LL4SB-410M-0103-SO	60	
LL4SB-415M-0101-SO	32	QM
LL4SB-415M-0102-SO	43	
LL4SB-415M-0103-SO	18	Q
LL4SB-413M-0101-SO	48	
LL4SB-413M-0102-SO	36	
LL4SB-413M-0103-SO	42	
LL4SB-413M-0103-SO MS	35	MS
LL4SB-413M-0103-SO MSD	45	MSD
LCS	48	LCS 240-7706/22-A
Method Blank	48	MB 240-7706/21-A
LL4SB-412M-0001-SO	39	
LL4SB-414M-0001/0002-SO	66	
LL4SB-414M-0001/0002-SO	66	MS
LL4Sb-414M-0001/0002-SO	56	MSD
LL4SB-419M-0001-SO	58	
LL4SB-420M-0001-SO	54	
LL4SB-421M-0001-SO	51	
LL4Sb-416M-0001/0002-SO	51	
LL4SB-416M-0001/0002-SO	50	MS
LL4SB-416M-0001/0002-SO	46	MSD
LL4SB-417M-0001-SO	45	
LL12SS-305M-0001-SO	53	
LCS	49	
LCS	50	
Method Blank	45	
Mehtod Blank	47	

Method Blank	48	
LL3SB-422M-0001-SO	51	
LL2SS-519M-0001-SO	45	
LL2SS-516M-0001-SO	39	
LL2SS-516M-0001-SO MS	48	MS
LL2SS-516M-0001-SO MSD	57	MSD
LL1SB-641M-0101-SO	36	
LL1SB-641M-0102-SO	32	
LL1SB-641M-0103-SO	31	
LL1SB-642M-0101-SO	45	
LL1SB-642M-0102-SO	39	
LL1SB-642M-0103-SO	48	
LCS	43	
Method BLank	20	

LL3SB-414M-0102-SO	0	Dilution, DF = 200
L12SS-304M-0001/0002-SO	0	Dilution Factor = 50
L12SS-304M-0001/0002-SO	0	MS, Dilution Factor = 50
L12SS-304M-0001/0002-SO	0	MSD, Dilution Factor = 50

Semiolatile Organic Analysis

QC=40-100

Ravenna	PHL	% Phenol-d5 Surrogate Recovery, Soil, EPA8270C, 2011
LL3SB-414M-0101-SO	65	
LL3SB-414M-0103-SO	63	
LCS	77	
Method BLank	60	
LL4SB-411M-0101-SO	61	
LL4SB-411M-0102-SO	67	
LL4SB-411M-0103-SO	63	
LL4SB-407M-0101-SO	61	
LL4SB-407M-0102-SO	65	
LL4SB-407M-0103-SO	18	Q
LL4SB-410M-0101-SO	63	
LL4SB-410M-0102-SO	66	
LL4SB-410M-0103-SO	77	
LL4SB-415M-0101-SO	64	
LL4SB-415M-0102-SO	58	
LL4SB-415M-0103-SO	28	Q
LL4SB-413M-0101-SO	60	
LL4SB-413M-0102-SO	58	
LL4SB-413M-0103-SO	74	
LL4SB-413M-0103-SO	63	MS
LL4SB-413M-0103-SO	62	MSD
LCS	70	LCS 240-7706/22-A
Method Blank	66	MB 240-7706/21-A
LL4SB-412M-0001-SO	67	
LL4SB-414M-0001/0002-S	71	
LL4SB-414M-0001/0002-S	67	MS
LL4Sb-414M-0001/0002-S	66	MSD
LL4SB-419M-0001-SO	73	
LL4SB-420M-0001-SO	69	
LL4SB-421M-0001-SO	65	
LL4Sb-416M-0001/0002-S	62	
LL4SB-416M-0001/0002-S	64	MS
LL4SB-416M-0001/0002-S	70	MSD
LL4SB-417M-0001-SO	75	
L12SS-305M-0001-SO	69	
L12SS-304M-0001/0002-S	65	
L12SS-304M-0001/0002-S	69	MS
L12SS-304M-0001/0002-S	69	MSD
LCS	56	
LCS	69	

Method Blank	70	
Mehtod Blank	67	
Method Blank	66	
LL3SB-422M-0001-SO	63	
LL2SS-519M-0001-SO	52	
LL2SS-516M-0001-SO	54	
LL2SS-516M-0001-SO	63	MS
LL2SS-516M-0001-SO	72	MSD
LL1SB-641M-0101-SO	64	
LL1SB-641M-0102-SO	53	
LL1SB-641M-0103-SO	65	
LL1SB-642M-0101-SO	62	
LL1SB-642M-0102-SO	51	
LL1SB-642M-0103-SO	65	
LCS	65	
Method BLank	61	

LL3SB-414M-0102-SO	0	Dilution, DF = 200

Semivolatile Organic Analysis

Ravenna	TPH (30-125)	% Terphenyl-d14 Surrogate Recovery Soil SamplesEPA8270C
LL3SB-414M-0101-SO	72	Dilution DF = 2
LL3SB-414M-0103-SO	72	
LCS	76	
Method BLank	78	
LL4SB-411M-0101-SO	64	
LL4SB-411M-0102-SO	68	
LL4SB-411M-0103-SO	68	
LL4SB-407M-0101-SO	71	
LL4SB-407M-0102-SO	67	
LL4SB-410M-0101-SO	67	
LL4SB-410M-0102-SO	69	
LL4SB-410M-0103-SO	70	
LL4SB-415M-0101-SO	64	
LL4SB-415M-0102-SO	69	
LL4SB-415M-0103-SO	32	
LL4SB-413M-0101-SO	66	
LL4SB-413M-0102-SO	69	
LL4SB-413M-0103-SO	67	
LL4SB-413M-0103-SO MS	66	
LL4SB-413M-0103-SO MSD	64	
LCS	66	LCS 240-7706/22-A
Method Blank	71	MB 240-7706/21-A
LL4SB-412M-0001-SO	62	
LL4SB-414M-0001/0002-SO	77	
LL4SB-414M-0001/0002-SO MS	73	
LL4Sb-414M-0001/0002-SO MSD	62	
LL4SB-419M-0001-SO	68	
LL4SB-420M-0001-SO	63	
LL4SB-421M-0001-SO	63	
LL4Sb-416M-0001/0002-SO	67	
LL4SB-416M-0001/0002-SO MS	63	
LL4SB-416M-0001/0002-SO MSD	61	
LL4SB-417M-0001-SO	68	
L12SS-305M-0001-SO	68	
L12SS-304M-0001/0002-SO	82	
L12SS-304M-0001/0002-SO MS	73	
L12SS-304M-0001/0002-SO MSD	78	
LCS	60	
LCS	70	

Method Blank	67	
Mehtod Blank	70	
Method Blank	71	
LL3SB-422M-0001-SO	76	
LL2SS-519M-0001-SO	69	
LL2SS-516M-0001-SO	61	
LL2SS-516M-0001-SO MS	69	
LL2SS-516M-0001-SO MSD	72	
LL1SB-641M-0101-SO	73	
LL1SB-641M-0102-SO	77	
LL1SB-641M-0103-SO	83	
LL1SB-642M-0101-SO	78	
LL1SB-642M-0102-SO	77	
LL1SB-642M-0103-SO	80	
LCS	76	
Method BLank	70	
LL3SB-414M-0102-SO	0	Dilution DF = 200
LL4SB-407M-0103-SO	18	Q

Semivolatile Organic Analysis

Ravenna	FBP (45-105)	2-Fluorobiphenyl Surrogate Semivolatile Organic 8270C
LL3SB-414M-0101-SO	54	
LL3SB-414M-0103-SO	52	
LCS	55	LCS 240-8076/15A
Method BLank	46	MB 240-8076/14-A
LL4SB-411M-0101-SO	50	
LL4SB-411M-0102-SO	54	
LL4SB-411M-0103-SO	52	
LL4SB-407M-0101-SO	56	
LL4SB-407M-0102-SO	56	
LL4SB-407M-0103-SO	13	Dilution Factor 1.0
LL4SB-410M-0101-SO	48	
LL4SB-410M-0102-SO	51	
LL4SB-410M-0103-SO	53	
LL4SB-415M-0101-SO	52	
LL4SB-415M-0102-SO	46	
LL4SB-415M-0103-SO	22	Dilution Factor 1.0
LL4SB-413M-0101-SO	48	
LL4SB-413M-0102-SO	49	
LL4SB-413M-0103-SO	48	
LL4SB-413M-0103-SO MS	54	
LL4SB-413M-0103-SO MSD	46	
LCS	48	MB 240-7706/22-A
Method Blank	52	MB 240-7706/21-A
LL4SB-412M-0001-SO	51	
LL4SB-414M-0001/0002-SO	59	
LL4SB-414M-0001/0002-SO MS	55	
LL4Sb-414M-0001/0002-SO MSD	48	
LL4SB-419M-0001-SO	51	
LL4SB-420M-0001-SO	49	
LL4SB-421M-0001-SO	53	
LL4Sb-416M-0001/0002-SO	53	
LL4SB-416M-0001/0002-SO MS	49	
LL4SB-416M-0001/0002-SO MSD	54	
LL4SB-417M-0001-SO	56	
L12SS-305M-0001-SO	55	
L12SS-304M-0001/0002-SO	60	
L12SS-304M-0001/0002-SO MS	60	
L12SS-304M-0001/0002-SO MSD	62	
LCS	48	

LCS	55	
Method Blank	59	
Mehtod Blank	52	
Method Blank	52	
LL3SB-422M-0001-SO	62	
LL2SS-519M-0001-SO	56	
LL2SS-516M-0001-SO	45	
LL2SS-516M-0001-SO MS	52	
LL2SS-516M-0001-SO MSD	58	
LL1SB-641M-0101-SO	63	
LL1SB-641M-0102-SO	53	
LL1SB-641M-0103-SO	65	
LL1SB-642M-0101-SO	70	
LL1SB-642M-0102-SO	46	
LL1SB-642M-0103-SO	58	
LCS	55	
Method BLank	53	
LL3SB-414M-0102-SO	0	Dilution DF = 200

Semivolatile Organic Analysis

	QC = 35-105	
Ravenna	2FP	2-Fluorophenol Surrogate Recovery EPA8270 Soil
LL3SB-414M-0101-SO	67	
LL3SB-414M-0103-SO	61	
LCS	72	
Method BLank	59	
LL4SB-411M-0101-SO	59	
LL4SB-411M-0102-SO	67	
LL4SB-411M-0103-SO	62	
LL4SB-407M-0101-SO	64	
LL4SB-407M-0102-SO	62	
LL4SB-407M-0103-SO	17	Dilution Factor 1.0
LL4SB-410M-0101-SO	58	
LL4SB-410M-0102-SO	65	
LL4SB-410M-0103-SO	68	
LL4SB-415M-0101-SO	61	
LL4SB-415M-0102-SO	55	
LL4SB-415M-0103-SO	28	Dilution Factor 1.0
LL4SB-413M-0101-SO	58	
LL4SB-413M-0102-SO	55	
LL4SB-413M-0103-SO	70	
LL4SB-413M-0103-SO MS	56	
LL4SB-413M-0103-SO MSD	59	
LCS	66	LCS 240-7706/22=A
Method Blank	65	MB 240-7706/21-A
LL4SB-412M-0001-SO	61	
LL4SB-414M-0001/0002-SO	66	
LL4SB-414M-0001/0002-SO MS	63	
LL4Sb-414M-0001/0002-SO MS	58	
LL4SB-419M-0001-SO	61	
LL4SB-420M-0001-SO	58	
LL4SB-421M-0001-SO	62	
LL4Sb-416M-0001/0002-SO	49	
LL4SB-416M-0001/0002-SO MS	58	
LL4SB-416M-0001/0002-SO MS	65	
LL4SB-417M-0001-SO	71	
L12SS-305M-0001-SO	58	
L12SS-304M-0001/0002-SO	59	
L12SS-304M-0001/0002-SO MS	54	
L12SS-304M-0001/0002-SO MS	64	
LCS	55	
LCS	66	

Method Blank	71	
Mehtod Blank	65	
Method Blank	65	
LL3SB-422M-0001-SO	69	
LL2SS-519M-0001-SO	56	
LL2SS-516M-0001-SO	45	
LL2SS-516M-0001-SO MS	56	
LL2SS-516M-0001-SO MSD	66	
LL1SB-641M-0101-SO	59	
LL1SB-641M-0102-SO	49	
LL1SB-641M-0103-SO	56	
LL1SB-642M-0101-SO	56	
LL1SB-642M-0102-SO	50	
LL1SB-642M-0103-SO	66	
LCS	63	
Method BLank	61	
LL3SB-414M-0102-SO	0	Dilution, DF = 200

Volatile Organic Analysis

	%1,2DCE Recovery	1,2-Dichloroethane-d4 Surrogate
LL3SD-416V-0001-SD	83	Ravenna
LL3SD-417V-0001-SD	82	
LL2SS-516V-0001-SO	87	
LL2SS-516V-0001-SO	82	MS
LL2SS-517V-0001V-SO	87	
L12SS-300V-0001-SO	88	
L12SS-301V-0001-SO	80	
LL1SB-644V-0101-SO	87	
LL1SB-644V-0102-SO	92	
LL1SB-644V-0103-SO	90	
LL1SB-645V-0101-SO	84	
LL1SB-645V-0102-SO	89	
LL1SB-645V-0103-SO	92	
LCS	95	
LCS	97	
Method Blank	99	
Method Blank	97	
CHASS-0001V-0001-SO	78	
CHASS-0002V-0001-SO	71	
LCS	80	
Method Blank	82	
LL4SS--416V-0001/0002-S	74	
LL4SS-416V-0001/0002-S	68	
LL4SS-417V-0001-SO	71	
LCS	80	
Method Blank	82	

Volatile Organic Analysis

	%Toluene	Surrogate Recovery, QC = 85-115
LL3SD-416V-0001-SD	74	
LL3SD-417V-0001-SD	76	
LL2SS-516V-0001-SO	77	
LL2SS-516V-0001-SO	74	MS
LL2SS-517V-0001V-SO	78	
L12SS-300V-0001-SO	83	
L12SS-301V-0001-SO	78	
LL1SB-644V-0101-SO	77	
LL1SB-644V-0102-SO	82	
LL1SB-644V-0103-SO	80	
LL1SB-645V-0101-SO	75	
LL1SB-645V-0102-SO	80	
LL1SB-645V-0103-SO	81	
LCS	88	
LCS	90	
Method Blank	89	
Method Blank	85	
CHASS-0001V-0001-SO	71	
CHASS-0002V-0001-SO	65	
LCS	76	
Method Blank	75	
LL4SS--416V-0001/0002-SO	67	
LL4SS-416V-0001/0002-SO	63	MS
LL4SS-417V-0001-SO	64	
LCS	76	
Method Blank	75	

Volatile Organic Analysis

	%Recovery	Dibromofluoromethane
LL3SD-416V-0001-SD	67	
LL3SD-417V-0001-SD	68	
LL2SS-516V-0001-SO	71	
LL2SS-516V-0001-SO	70	MS
LL2SS-517V-0001V-SO	72	
L12SS-300V-0001-SO	75	
L12SS-301V-0001-SO	70	
LL1SB-644V-0101-SO	70	
LL1SB-644V-0102-SO	74	
LL1SB-644V-0103-SO	72	
LL1SB-645V-0101-SO	69	
LL1SB-645V-0102-SO	73	
LL1SB-645V-0103-SO	76	
LCS	82	
LCS	86	
Method Blank	81	
Method Blank	79	
CHASS-0001V-0001-SO	65	
CHASS-0002V-0001-SO	59	
LCS	73	
Method Blank	69	
LL4SS--416V-0001/0002-SO	64	
LL4SS-416V-0001/0002-SO	62	
LL4SS-417V-0001-SO	59	
LCS	73	
Method Blank	69	

Volatile Organic Analysis

	%Recovery	4-Bromofluorobenzene Surrogate
LL3SD-416V-0001-SD	74	
LL3SD-417V-0001-SD	76	
LL2SS-516V-0001-SO	76	
LL2SS-516V-0001-SO	74	MS
LL2SS-517V-0001V-SO	78	
L12SS-300V-0001-SO	80	
L12SS-301V-0001-SO	78	
LL1SB-644V-0101-SO	74	
LL1SB-644V-0102-SO	79	
LL1SB-644V-0103-SO	79	
LL1SB-645V-0101-SO	74	
LL1SB-645V-0102-SO	79	
LL1SB-645V-0103-SO	82	
LCS	89	
LCS	91	
Method Blank	87	
Method Blank	86	
CHASS-0001V-0001-SO	71	
CHASS-0002V-0001-SO	64	
LCS	78	
Method Blank	73	
LL4SS--416V-0001/0002-SO	67	
LL4SS-416V-0001/0002-SO	64	
LL4SS-417V-0001-SO	64	
LCS	78	
Method Blank	73	

SECTION III

QA/QC Comparison Tables

Table 1

Volatile Organic Analysis

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna L12

Date Sampled: 7/3/2011 Method No EPA 8260B

QC-SAMPLE NO: L12SS-301V-0001-SO QA-SAMPLE NO.: L12SS-302V-0001-SO

Date Analyzed 7/13/2011 Date Analyzed: 07/07/11

Lab Name: TestAmerica-N. Canton Lab Nam **CT Laboratories**

Matrix: Soil

Concentration Units: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
	o-Xylene		13		
	Xylene-Total	64 J			
	Toluene	50	13	117.46	
	Ethylbenzene	12 J	<7.9		
	Methylene Chloride	73 J	<39		
	Carbon Disulfide	34 J	<15		

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DVRR10092011

Table 2

Volatile Organic Analysis

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna — LL3

Date Sampled: 7/2/2011 — Method No EPA 8260B

QC-SAMPLE NO: LL3SD-417V-0001-SD — QA-SAMPLE NO.: LL3SD-418V-0001-SD

Date Analyzed 7/12/2011 — Date Analyzed: 07/07/11

Lab Name: TestAmerica-N. Canton — Lab Nam **CT Laboratories**

Matrix: Soil

Concentration Units: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
	Toluene	51	13	**118.75**	
	Carbon Disulfide	38	<18		
	Ethylbenzene	23	<9.6		
	Methylene Chloride	130	<48		
	Xylene-Total	220	<22		

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DVRR10092011

Table 3

Volatile Organic Analysis

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna — LL2

Date Sampled: 7/3/2011 — Method No EPA 8260B

QC-SAMPLE NO: LL2SS-517V-0001-SO — QA-SAMPLE NO.: LL2SS-518V-0001-SO

Date Analyzed 7/12/2011 — Date Analyzed: 07/07/11

Lab Name: TestAmerica-N. Canton — Lab Nam **CT Laboratories**

Matrix: Soil

Concentration Units: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
	Toluene	<21	7.4		
	Methylen Chloride	130	<38		

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DVRR10092011

Table 4

Volatile Organic Analysis

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna — LL1

Date Sampled: 7/5/2011 — Method No EPA 8260B

QC-SAMPLE NO: LL1SB-645V-0101-SO — QA-SAMPLE NO.: LL1SB-646V-0101S-O

Date Analyzed 7/12/2011 — Date Analyzed: 07/07/11

Lab Name: TestAmerica-N. Canton — Lab Nam **CT Laboratories**

Matrix: Soil

Concentration Units: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
	Toluene	<15	5.2		
	Methylene Chloride	74 J	<28		

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Table 5

POLYAROMATIC HYDROCARBON ANALYSIS DATA SHEET

QA/QC COMPARISON TABLE Customer Sample ID

Project: Ravenna L12SS

Date Sampled: 7/3/2011 Method No: EPA 8270

QC-SAMPLE NO L12SS-301M-0001-SO QA-SAMPLE NO L12SS-302M-0001-SO

Date Prepared: 7/13/2011 Date Prepared: 7/8/2011

Date Analyzed: 8/1/2011 Date Analyze 7/15/2011

Lab Name: TestAmerica-N. Canton Lab Name: CT Laboratories

Matrix: CONCENTRATION UNITS: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
91-20-3- - -	Naphthalene	540	600	10.53	
208-96-8- -	Acenaphthylene	600	180	107.7	
83-32-9- - -	Acenaphthene	750	570	27.27	
	Carbazole	980	810	18.99	
86-73-7- - -	Fluorene	880	700	22.78	
85-01-8- - -	Phenanthrene	8700	6400	30.46	
120-12-7- -	Anthracene	3700	2000	59.65	
84-74-2- - -	Di-n-butylphthalate	<550	<81		U
206-44-0- -	Fluoranthene	16000	1100	174.3	
129-00-0- -	Pyrene	13000	9300	33.18	
85-68-7- - -	Butylbenzylphthalate	<550	<75		U
56-55-3- - -	Benzo(a)anthracene	8300	5500	40.58	
218-01-9- -	Chrysene	8100	4700	53.13	
117-81-7- -	bis(2-Ethylhexyl)phthalate	<550	320		
205-99-2- -	Benzo(b)fluoranthene	8500	7700	9.877	
207-08-9- -	Benzo(k)fluoranthene	4400	1400	103.4	
50-32-8- - -	Benzo(a)pyrene	6800	4300	45.05	
193-39-5- -	Indeno(1,2,3-cd)pyrene	3700	2300	46.67	
53-70-3- - -	Dibenz(a,h)anthracene	960	1200	22.22	
191-24-2- -	Benzo(g,h,i)perylene	3800	1500	86.79	
	Dibenzofuran	660	500	27.59	

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Table 6

POLYAROMATIC HYDROCARBON ANALYSIS DATA SHEET

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna

LL4SS

Date Sampled: 6/26/2011

Method No: EPA 8270

QC-SAMPLE NO LL4SS-417M-0001-SO

QA-SAMPLE NO LL4SS-418M-0001-SO

Date Prepared: 7/6/2011

Date Analyzed: 7/18/2011

Lab Name: TestAmerica-N.Canton

Date Prepared: 7/8/2011

Date Analyze 7/14/2011

Lab Name: CT Laboratories

Matrix: CONCENTRATION UNITS: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
91-20-3- - -	Naphthalene	56	50	11.32	U
208-96-8- -	Acenaphthylene	20	30	40	U
83-32-9- - -	Acenaphthene	6.6	<24		U
	Carbazole	<28	<28		U
86-73-7- - -	Fluorene	10	<25		U
85-01-8- - -	Phenanthrene	68	120	55.32	U
120-12-7- -	Anthracene	33	60	58.06	U
84-74-2- - -	Di-n-butylphthalate	<28	150		U
206-44-0- -	Fluoranthene	140	260	60	U
129-00-0- -	Pyrene	140	470	108.2	U
85-68-7- - -	Butylbenzylphthalate	<28	<74		U
56-55-3- - -	Benzo(a)anthracene	87	310	112.3	U
218-01-9- -	Chrysene	140	430	101.8	U
117-81-7- -	bis(2-Ethylhexyl)phthalate	150	180	18.18	U
205-99-2- -	Benzo(b)fluoranthene	250	690	93.62	U
207-08-9- -	Benzo(k)fluoranthene	76	170	76.42	U
50-32-8- - -	Benzo(a)pyrene	110	320	97.67	U
193-39-5- -	Indeno(1,2,3-cd)pyrene	87	200	78.75	U
53-70-3- - -	Dibenz(a,h)anthracene	27	86	104.4	U
191-24-2- -	Benzo(g,h,i)perylene	120	140	15.38	U
	Dibenzofuran	20	24	18.18	

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Table 7

POLYAROMATIC HYDROCARBON ANALYSIS DATA SHEET

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna

LL3

Date Sampled: 7/2/2011

Method No: EPA 8270

QC-SAMPLE NO LL3SD-417M-0001-SD

QA-SAMPLE NO LL3SD-418M-0001-SD

Date Prepared: 7/13/2011

Date Analyzed: 8/1/2011

Lab Name: TestAmerica-N. Canton

Date Prepared: 7/8/2011

Date Analyze 7/15/2011

Lab Name: CT Laboratories

Matrix: CONCENTRATION UNITS: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
91-20-3- - -	Naphthalene	74	110	39.13	
208-96-8- -	Acenaphthylene	550	790	35.82	
83-32-9- - -	Acenaphthene	130	130	0	
	Carbazole	400	640	46.15	
86-73-7- - -	Fluorene	320	440	31.58	
85-01-8- - -	Phenanthrene	2800	4800	52.63	
120-12-7- -	Anthracene	1000	1300	26.09	
84-74-2- - -	Di-n-butylphthalate		<81		U
206-44-0- -	Fluoranthene	5500	9400	52.35	
129-00-0- -	Pyrene	4000	7100	55.86	
85-68-7- - -	Butylbenzylphthalate		<74		U
56-55-3- - -	Benzo(a)anthracene	2900	4900	51.28	
218-01-9- -	Chrysene	2500	4100	48.48	
117-81-7- -	bis(2-Ethylhexyl)phthalate		140		
205-99-2- -	Benzo(b)fluoranthene	3100	6000	63.74	
207-08-9- -	Benzo(k)fluoranthene	1900	1500	23.53	
50-32-8- - -	Benzo(a)pyrene	2500	3700	38.71	
193-39-5- -	Indeno(1,2,3-cd)pyrene	1500	2400	46.15	
53-70-3- - -	Dibenz(a,h)anthracene	590	1100	60.36	
191-24-2- -	Benzo(g,h,i)perylene	1500	1200	22.22	
	Dibenzofuran	200	280	33.33	

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Table 8

POLYAROMATIC HYDROCARBON ANALYSIS DATA SHEET

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna

LL2SS

Date Sampled: 7/3/2011

Method No: EPA 8270

QC-SAMPLE NO LL2SS-517M-0001-SO

QA-SAMPLE NO LL2SS-518M-0001-SO

Date Prepared: 7/13/2011

Date Analyzed: 8/1/2011

Lab Name: TestAmerica-N. Canton

Date Prepared: 7/8/2011

Date Analyze 7/15/2011

Lab Name: CT Laboratories

Matrix: CONCENTRATION UNITS: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
91-20-3- - -	Naphthalene	78.0	84.0	7.407	
208-96-8- -	Acenaphthylene	320.0	130.0	84.44	
83-32-9- - -	Acenaphthene	150.0	240.0	46.15	
	Carbazole	170.0	190.0	11.11	
86-73-7- - -	Fluorene	300.0	210.0	35.29	
85-01-8- - -	Phenanthrene	2100.0	1800.0	15.38	
120-12-7- -	Anthracene	570.0	400.0	35.05	
84-74-2- - -	Di-n-butylphthalate	<110	<91		U
206-44-0- -	Fluoranthene	3600.0	3500.0	2.817	
129-00-0- -	Pyrene	2700.0	2800.0	3.636	
85-68-7- - -	Butylbenzylphthalate				
56-55-3- - -	Benzo(a)anthracene	1600.0	1700.0	6.061	
218-01-9- -	Chrysene	1500.0	1600.0	6.452	
117-81-7- -	bis(2-Ethylhexyl)phthalate	380.0			
205-99-2- -	Benzo(b)fluoranthene	2000.0	2300.0	13.95	
207-08-9- -	Benzo(k)fluoranthene	950.0	970.0	2.083	
50-32-8- - -	Benzo(a)pyrene	1700.0	1800.0	5.714	
193-39-5- -	Indeno(1,2,3-cd)pyrene	1000.0	1100.0	9.524	
53-70-3- - -	Dibenz(a,h)anthracene	210.0	320.0	41.51	
191-24-2- -	Benzo(g,h,i)perylene	1000.0	760.0	27.27	
	Dibenzofuran		110.0		

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Table 9

POLYAROMATIC HYDROCARBON ANALYSIS DATA SHEET

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna

LL1SB

Date Sampled: 7/5/2011

Method No: EPA 8270C

QC-SAMPLE NO	LL1SB-645M-0101-SO	QA-SAMPLE NO	LL1SB-646M-0101-SO
Date Prepared:	7/13/2011	Date Prepared:	7/11/2011
Date Analyzed:	8/11/2011	Date Analyze	7/11/2011
Lab Name:	TestAmerica-N.-Canton	Lab Name:	CT Laboratories

Matrix: CONCENTRATION UNITS: (ug/L or ug/Kg)

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
91-20-3- - -	Naphthalene	<3.3	<21		U
208-96-8- -	Acenaphthylene	<3.3	<24		U
83-32-9- - -	Acenaphthene	<3.3	<24		U
	Carbazole	<27	<28		U
86-73-7- - -	Fluorene	<3.3	<25		U
85-01-8- - -	Phenanthrene	27	<26		U
120-12-7- -	Anthracene	<3.3	<24		U
84-74-2- - -	Di-n-butylphthalate	35	<80		U
206-44-0- -	Fluoranthene	47	44	6.593	
129-00-0- -	Pyrene	35	37	5.556	
85-68-7- - -	Butylbenzylphthalate	<27	<74		U
56-55-3- - -	Benzo(a)anthracene	19	26	31.11	
218-01-9- -	Chrysene	24	<25		U
117-81-7- -	bis(2-Ethylhexyl)phthalate	160	120	28.57	
205-99-2- -	Benzo(b)fluoranthene	28	<25		U
207-08-9- -	Benzo(k)fluoranthene	14	<25		U
50-32-8- - -	Benzo(a)pyrene	19	<23		U
193-39-5- -	Indeno(1,2,3-cd)pyrene	13	<23		U
53-70-3- - -	Dibenz(a,h)anthracene	<3.3	<22		U
191-24-2- -	Benzo(g,h,i)perylene	23	<22		U
	Dibenzofuran	<27	<24		

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Table 10

POLYAROMATIC HYDROCARBON ANALYSIS DATA SHEET

QA/QC COMPARISON TABLE Customer Sample ID

Project: Ravenna LL1SB

Date Sampled: 7/5/2011 Method No: EPA 8270C

QC-SAMPLE NO LL1SB-645M-0102-SO QA-SAMPLE NO LL1SB-646M-0102-SO

Date Prepared: 7/13/2011 Date Prepared: 7/8/2011

Date Analyzed: 8/8/2011 Date Analyze 7/14/2011

Lab Name: TestAmerica-N.-Canton Lab Name: CT Laboratories

Matrix: CONCENTRATION UNITS: (ug/L or ug/Kg)

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
91-20-3- - -	Naphthalene	6.8	29	124	U
208-96-8- -	Acenaphthylene	<3.3	<24		U
83-32-9- - -	Acenaphthene	18	99	138.5	U
	Carbazole	<27	170		U
86-73-7- - -	Fluorene	23	130	139.9	U
85-01-8- - -	Phenanthrene	210	970	128.8	U
120-12-7- -	Anthracene		290		U
84-74-2- - -	Di-n-butylphthalate	23	110	130.8	U
206-44-0- -	Fluoranthene	300	890	99.16	
129-00-0- -	Pyrene	230	730	104.2	
85-68-7- - -	Butylbenzylphthalate	<27	<74		U
56-55-3- - -	Benzo(a)anthracene	120	26	128.8	
218-01-9- -	Chrysene	120	310	88.37	U
117-81-7- -	bis(2-Ethylhexyl)phthalate	170	93	58.56	
205-99-2- -	Benzo(b)fluoranthene	130	320	84.44	U
207-08-9- -	Benzo(k)fluoranthene	62	110	55.81	U
50-32-8- - -	Benzo(a)pyrene	99	250	86.53	U
193-39-5- -	Indeno(1,2,3-cd)pyrene	58	130	76.6	U
53-70-3- - -	Dibenz(a,h)anthracene	14	310	182.7	U
191-24-2- -	Benzo(g,h,i)perylene	62	92	38.96	U
	Dibenzofuran	16	73	128.1	

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Table 11

POLYAROMATIC HYDROCARBON ANALYSIS DATA SHEET

QA/QC COMPARISON TABLE Customer Sample ID

Project: Ravenna LL1SB

Date Sampled: 7/5/2011 Method No: EPA 8270C

QC-SAMPLE NO LL1SB-645M-0103-SO QA-SAMPLE NO LL1SB-646M-0103-SO

Date Prepared: 7/13/2011 Date Prepared: 7/8/2011

Date Analyzed: 8/1/2011 Date Analyze 7/14/2011

Lab Name: TestAmerica-N.-Canton Lab Name: CT Laboratories

Matrix: CONCENTRATION UNITS: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
91-20-3- - -	Naphthalene		<21		U
208-96-8- -	Acenaphthylene	<3.3	<24		U
83-32-9- - -	Acenaphthene	<3.3	<24		U
	Carbazole	<3.3	<28		U
86-73-7- - -	Fluorene	<3.3	<25		U
85-01-8- - -	Phenanthrene	6.7	<26		U
120-12-7- -	Anthracene	<3.3	<24		U
84-74-2- - -	Di-n-butylphthalate	24	<80		U
206-44-0- -	Fluoranthene	10	<26		
129-00-0- -	Pyrene	9.1	<39		
85-68-7- - -	Butylbenzylphthalate	<3.3	<74		U
56-55-3- - -	Benzo(a)anthracene	<3.3	<25		
218-01-9- -	Chrysene	<3.3	<25		U
117-81-7- -	bis(2-Ethylhexyl)phthalate	240	100	**82.35**	
205-99-2- -	Benzo(b)fluoranthene	<3.3	<25		U
207-08-9- -	Benzo(k)fluoranthene	<3.3	<25		U
50-32-8- - -	Benzo(a)pyrene	<3.3	<23		U
193-39-5- -	Indeno(1,2,3-cd)pyrene	<3.3	<23		U
53-70-3- - -	Dibenz(a,h)anthracene	<3.3	<22		U
191-24-2- -	Benzo(g,h,i)perylene	<3.3	<22		U
	Dibenzofuran	<3.3	<24		

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Table 12

POLYCHLORINATED BIPHENYL (PCB) ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna — L12

Date Sampled: 7/3/2011 — Method No EPA 8082

QC-SAMPLE NO: L12SS-301-0001-SO — QA-SAMPLE NO: L12SS-302-0001-SO

Date Analyzed 7/13/2011 — Date Analyzed: 7/8/2011

Lab Name: TestAmerica-N. Canton — Lab Name: **CT Laboratorie**

Matrix: — NCENTRATION (ug/Kg)

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
12674-11-2	Aroclor 1016	< 130	< 10		U
11104-28-2	Aroclor 1221	< 130	< 21		U
11141-16-5	Aroclor 1232	< 130	< 28		U
53469-21-9	Aroclor 1242	< 130	< 30		U
12672-29-6	Aroclor 1248	**100**	< 30		
11097-69-1	Aroclor 1254	< 130	**1400**		
11096-82-5	Aroclor 1260	**900**	< 12		

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Table 13

POLYCHLORINATED BIPHENYL (PCB) ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID: LL3

Project: Ravenna

Date Sampled: 7/2/2011 Method No EPA 8082

QC-SAMPLE NO: LL3SD-417M-0001-SD QA-SAMPLE NO: LL3SD-418M-0001-SD

Date Analyzed 7/13/2011 Date Analyzed: 7/8/2011

Lab Name: **TestAmerica-N Canton** Lab Name: **CT Laboratorie**

Matrix: NCENTRATION (ug/Kg)

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
12674-11-2	Aroclor 1016	< 25	< 10		U
11104-28-2	Aroclor 1221	< 25	< 20		U
11141-16-5	Aroclor 1232	< 25	< 28		U
53469-21-9	Aroclor 1242	< 25	< 30		U
12672-29-6	Aroclor 1248	< 25	< 30		U
11097-69-1	Aroclor 1254	**86**	**87**	**1.1561**	J
11096-82-5	Aroclor 1260	< 25	< 12		U
					U
					U
					U
					U
			<		U
			<		U
			<		U
		<	<		U
		<	<		U
		<	<		U
		<	<		U
		<	<		U
		<	<		U

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Table 14

POLYCHLORINATED BIPHENYL (PCB) ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID: LL2

Project: Ravenna

Date Sampled: 7/3/2011 Method No EPA 8082

QC-SAMPLE NO: LL2SS-517M-0001-SO QA-SAMPLE NO: LL2SS-518M-0001-SO

Date Analyzed 7/13/2011 Date Analyzed: 7/8/2011

Lab Name: **TestAmerica-N. Canton** Lab Name: **CT Laboratorie**

Matrix: NCENTRATION (ug/Kg)

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
12674-11-2	Aroclor 1016	< 25	< 20		U
11104-28-2	Aroclor 1221	< 25	< 41		U
11141-16-5	Aroclor 1232	< 25	< 55		U
53469-21-9	Aroclor 1242	< 25	< 59		U
12672-29-6	Aroclor 1248	< 25	< 59		U
11097-69-1	Aroclor 1254	**200**	**620**	**102.44**	OUT
11096-82-5	Aroclor 1260	< 25			U
					U
					U
					U
					U
					U
					U
					U
					U
					U
					U
					U
					U
					U

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Table 15

POLYCHLORINATED BIPHENYL (PCB) ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna — LL1

Date Sampled: 7/5/2011 — Method No EPA 8082

QC-SAMPLE NO: LL1SB-645M-0101-SO — QA-SAMPLE NO: LL1SB-646M-0101-SO

Date Analyzed 7/13/2011 — Date Analyzed: 7/8/2011

Lab Name: **TestAmerica-N. Canton** — Lab Name: **CT Laboratorie**

Matrix: SOIL — NCENTRATION (ug/Kg)

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
12674-11-2	Aroclor 1016	< 120	< 10		U
11104-28-2	Aroclor 1221	< 120	< 20		U
11141-16-5	Aroclor 1232	< 120	< 27		U
53469-21-9	Aroclor 1242	< 120	< 29		U
12672-29-6	Aroclor 1248	< 120	< 29		U
11097-69-1	Aroclor 1254	**830**	**440**	**61.4**	OUT
11096-82-5	Aroclor 1260	< 120	< 12		U
					U
					U
					U
					U
					U
					U
					U
					U
					U
			<		U
		<	<		U
		<	<		U
		<	<		U

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Table 16

POLYCHLORINATED BIPHENYL (PCB) ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna — LL1

Date Sampled: 7/5/2011 — Method No EPA 8082

QC-SAMPLE NO: LL1SB-645M-0102-SO — QA-SAMPLE NO.: LL1SB-646M-0102-SO

Date Analyzed 7/13/2011 — Date Analyzed: 7/8/2011

Lab Name: **TestAmerica-N. Canton** — Lab Name: **CT Laboratorie**

Matrix: SOIL — CONCENTRATIONS (ug/Kg)

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
12674-11-2	Aroclor 1016	< 2500	< 10		U
11104-28-2	Aroclor 1221	< 2500	< 20		U
11141-16-5	Aroclor 1232	< 2500	< 27		U
53469-21-9	Aroclor 1242	< 2500	< 29		U
12672-29-6	Aroclor 1248	< 2500	< 29		U
11097-69-1	Aroclor 1254	**14000**	**14000**	**0**	
11096-82-5	Aroclor 1260	< 2500	< 12		U
					U
					U
					U
					U
					U
					U
					U
		<			U
		<	<		U
		<	<		U
		<	<		U
		<	<		U
		<	<		U

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Table 17

POLYCHLORINATED BIPHENYL (PCB) ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID: LL1

Project: Ravenna

Date Sampled: 7/5/2011 Method No EPA 8082

QC-SAMPLE NO: LL1SB-645M-0103-SO QA-SAMPLE NO.: LL1SB-646M-0103-SO

Date Analyzed 7/13/2011 Date Analyzed: 7/8/2011

Lab Name: **TestAmerica-N. Canton** Lab Name: **CT Laboratorie**

Matrix: SOIL NCENTRATION (ug/Kg)

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
12674-11-2	Aroclor 1016	< 25	< 9.9		U
11104-28-2	Aroclor 1221	< 25	< 20		U
11141-16-5	Aroclor 1232	< 25	< 27		U
53469-21-9	Aroclor 1242	< 25	< 29		U
12672-29-6	Aroclor 1248	< 25	< 29		U
11097-69-1	Aroclor 1254	**240**	**230**	**4.26**	
11096-82-5	Aroclor 1260	< 25	< 12		U
					U
					U
					U
					U
					U
					U
					U
					U
		<	<		U
		<	<		U
		<	<		U
		<	<		U
		<	<		U

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Table 18

POLYCHLORINATED BIPHENYL (PCB) ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna — LL4SS

Date Sampled: 7/5/2011 — Method No EPA 8082

QC-SAMPLE NO: LL4SS-417M-0001-SO — QA-SAMPLE NO: LL4SS-418M-0001-SO

Date Prepared: 7/8/2011 — Date Prepared: 7/8/2011

Date Analyzed 7/16/2011 — Date Analyzed: 7/14/2011

Lab Name: **TestAmerica-N. Canton** — Lab Name: **CT Laboratorie**

Matrix: SOIL — NCENTRATION (ug/Kg)

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
12674-11-2	Aroclor 1016	<25	<10		U
11104-28-2	Aroclor 1221	<25	<20		U
11141-16-5	Aroclor 1232	<25	<27		U
53469-21-9	Aroclor 1242	<25	<29		U
12672-29-6	Aroclor 1248	<25	<29		U
11097-69-1	Aroclor 1254	<25	<23		U
11096-82-5	Aroclor 1260	<25	<12		U
		<	<		

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Table 19

ORGANOCHLORINE PESTICIDES ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna — L12-

Date Sampled: 7/3/2011 — Method No: EPA 8081

QC-SAMPLE NO: L12SS-301M-0001-SO — QA-SAMPLE NO.: L12SS-302M-0001-SO

Date Analyzed: 7/31/2011 — Date Analyzed: 07/21/11

Lab Name: TestAmerica-N. Canton — Lab Name: CT Laboratories

QC DF =50 — QA DF=2

Matrix: soil — Concentration: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
309-00-2	Aldrin	<68	<1.0		
319-84-6	α-BHC	<68	<1.2		
319-85-7	β-BHC	<68	<1.2		
58-89-9	γ-BHC (Lindane)	<68	<0.1		
319-86-8	δ-BHC	<68	<0.61		
5103-71-9	α-Chlordane	<68			
5103-74-2	γ-Chlordane	**71**			
57-74-9	Chlordane		<8.2		
510-15-6	Chlorobenzilate				
96-12-8	1,2-Dibromo-3-chloropropane (DBC)				
72-54-8	4,4'-DDD	<34	<0.62		
72-55-9	4,4'-DDE	<34	**31**		
50-29-3	4,4'-DDT	<34	<1.0		
2303-16-4	Dialliate				
60-57-1	Dieldrin	<34	<0.62		
959-98-8	Endosulfan I	<34	**14**		
33213-65-9	Endosulfane II	<68	<0.61		
1031-07-8	Endosulfane-sulfate	<68	<1.8		
72-20-8	Endrin	<34	**30**		
7421-93-4	Endrin aldehyde	<68	**29**		
53494-70-5	Endrin ketone	**130**	<1.6		
76-44-8	Heptachlor	<68	**71**		
1024-57-3	Heptachlor epoxide	<68	**8.2**		
465-73-6	Isodrin				
72-43-5	Methoxychlor	<170	<1.4		
8001-35-2	Toxaphene	<1000	<10		

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Table 19-A

ORGANOCHLORINE PESTICIDES ANALYSIS

QA/QC COMPARISON TABLE

Project: Ravenna

Customer Sample ID: L12-

Date Sampled: 7/3/2011 Method No: EPA 8081

QC-SAMPLE NO: L12SS-301M-0001-SO QA-SAMPLE NO.: L12SS-302M-0001-SO

Date Analyzed: 12/08/2011 Repeat Analysis Date Analyzed: 07/21/11

Lab Name: TestAmerica-N. Canton Lab Name: CT Laboratories

QC DF =5.0 QA DF=2

Matrix: soil Concentration: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
309-00-2	Aldrin	<6.8	<1.0		
319-84-6	α-BHC	<6.8	<1.2		
319-85-7	β-BHC	<6.8	<1.2		
58-89-9	γ-BHC (Lindane)	<6.8	<0.1		
319-86-8	δ-BHC	<6.8	<0.61		
5103-71-9	α-Chlordane				
5103-74-2	γ-Chlordane	<3.4			
57-74-9	Chlordane		<8.2		
510-15-6	Chlorobenzilate				
96-12-8	1,2-Dibromo-3-chloropropane (DBC)				
72-54-8	4,4'-DDD	<3.4	<0.62		
72-55-9	4,4'-DDE	**10**	**31**	**102.44**	
50-29-3	4,4'-DDT	<3.4	<1.0		
2303-16-4	Dialliate				
60-57-1	Dieldrin	<3.4	<0.62		
959-98-8	Endosulfan I	<3.4	**14**		
33213-65-9	Endosulfane II	<6.8	<0.61		
1031-07-8	Endosulfane-sulfate	<6.8	<1.8		
72-20-8	Endrin	<3.4	**30**		
7421-93-4	Endrin aldehyde	**24**	**29**	**18.868**	
53494-70-5	Endrin ketone	<3.4	<1.6		
76-44-8	Heptachlor	<6.8	**71**		
1024-57-3	Heptachlor epoxide	<6.8	**8.2**		
465-73-6	Isodrin				
72-43-5	Methoxychlor	**280**	<1.4		
8001-35-2	Toxaphene	<100	<10		

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Table 20

ORGANOCHLORINE PESTICIDES ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID: LL3-

Project: Ravenna

Date Sampled: 7/3/2011 Method No: EPA 8081

QC-SAMPLE NO: LL2SS-517M-0001-SO QA-SAMPLE NO.: LL2SS-518M-0001-SO

Date Analyzed: 7/31/2011 Date Analyzed: 07/21/11

Lab Name: TestAmerica-N. Canton Lab Name: CT Laboratories

QC DF =50 QA DF=2

Matrix: soil Concentration: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
309-00-2	Aldrin	<68	<1.0		
319-84-6	α-BHC	<68	<1.2		
319-85-7	β-BHC	<68	<1.2		
58-89-9	γ-BHC (Lindane)	<68	<0.1		
319-86-8	δ-BHC	<68	<0.61		
5103-71-9	α-Chlordane	<68	<0.61		
5103-74-2	γ-Chlordane	<34	<0.61		
57-74-9	Chlordane		<8.1		
510-15-6	Chlorobenzilate				
96-12-8	1,2-Dibromo-3-chloropropane (DBC)				
72-54-8	4,4'-DDD	<34	<0.61		
72-55-9	4,4'-DDE	<34	**16**		
50-29-3	4,4'-DDT	<34	<1.0		
2303-16-4	Dialliate				
60-57-1	Dieldrin	<34	**8.8**		
959-98-8	Endosulfan I	<34	<1.4		
33213-65-9	Endosulfane II	<68	<0.61		
1031-07-8	Endosulfane-sulfate	<68	<1.8		
72-20-8	Endrin	<34	<0.81		
7421-93-4	Endrin aldehyde	<68	**13**		
53494-70-5	Endrin ketone	<34	<1.6		
76-44-8	Heptachlor	<68	<0.81		
1024-57-3	Heptachlor epoxide	<68	**2.6**		
465-73-6	Isodrin				
72-43-5	Methoxychlor	<170	<1.4		
8001-35-2	Toxaphene	<1000	<10		

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Table 20-A

ORGANOCHLORINE PESTICIDES ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID: LL3-

Project: Ravenna

Date Sampled: 7/3/2011 Method No: EPA 8081

QC-SAMPLE NO: LL2SS-517M-0001-SO QA-SAMPLE NO.: LL2SS-518M-0001-SO

Date Analyzed: 12/8/2011 Repeat Analysis Date Analyzed: 07/21/11

Lab Name: TestAmerica-N. Canton Lab Name: CT Laboratories

QC DF =5.0 QA DF=2

Matrix: soil Concentration: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
309-00-2	Aldrin	<6.8	<1.0		
319-84-6	α-BHC	<6.8	<1.2		
319-85-7	β-BHC	<6.8	<1.2		
58-89-9	γ-BHC (Lindane)	<6.8	<0.1		
319-86-8	δ-BHC	<6.8	<0.61		
5103-71-9	α-Chlordane	<6.8	<0.61		
5103-74-2	γ-Chlordane	<3.4	<0.61		
57-74-9	Chlordane		<8.1		
510-15-6	Chlorobenzilate				
96-12-8	1,2-Dibromo-3-chloropropane (DBC)				
72-54-8	4,4'-DDD	<3.4	<0.61		
72-55-9	4,4'-DDE	**3.3**	**16**	**131.61**	
50-29-3	4,4'-DDT	<3.4	<1.0		
2303-16-4	Dialliate				
60-57-1	Dieldrin	<3.4	**8.8**		
959-98-8	Endosulfan I	<3.4	<1.4		
33213-65-9	Endosulfane II	<6.8	<0.61		
1031-07-8	Endosulfane-sulfate	<6.8	<1.8		
72-20-8	Endrin	<3.4	<0.81		
7421-93-4	Endrin aldehyde	<6.8	**13**		
53494-70-5	Endrin ketone	**25**	<1.6		
76-44-8	Heptachlor	<6.8	<0.81		
1024-57-3	Heptachlor epoxide	<6.8	**2.6**		
465-73-6	Isodrin				
72-43-5	Methoxychlor	**66**	<1.4		
8001-35-2	Toxaphene	<100	<10		

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Table 21

ORGANOCHLORINE PESTICIDES ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna — LL1-

Date Sampled: 7/5/2011 — Method No: EPA 8081

QC-SAMPLE NO: LL1SB-645M-0101-SO — QA-SAMPLE NO.: LL1SB-646M-0101-SO

Date Analyzed: 7/31/2011 — Date Analyzed: 07/21/11

Lab Name: TestAmerica-N. Canton — Lab Name: CT Laboratories

QC DF= 5.0 — QA DF=20

Matrix: soil — Concentration: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
309-00-2	Aldrin	<6.7	<10		
319-84-6	α-BHC	<6.7	<12		
319-85-7	β-BHC	<6.7	<12		
58-89-9	γ-BHC (Lindane)	<6.7	<1.0		
319-86-8	δ-BHC	<6.7	<6.0		
5103-71-9	α-Chlordane	<6.7	<6.0		
5103-74-2	γ-Chlordane	<3.4	**16**		
57-74-9	Chlordane		<80		
510-15-6	Chlorobenzilate				
96-12-8	1,2-Dibromo-3-chloropropane (DBC)				
72-54-8	4,4'-DDD	<3.4	<6.0		
72-55-9	4,4'-DDE	**110**	**190**	**53.333**	
50-29-3	4,4'-DDT	<3.4	<10		
2303-16-4	Dialliate				
60-57-1	Dieldrin	<34	**22**		
959-98-8	Endosulfan I	<34	<14		
33213-65-9	Endosulfane II	<6.7	<6.0		
1031-07-8	Endosulfane-sulfate	<6.7	<1.8		
72-20-8	Endrin	<3.4	<8.0		
7421-93-4	Endrin aldehyde	**34**	<22		
53494-70-5	Endrin ketone	<3.4	<16		
76-44-8	Heptachlor	<6.7	<8.0		
1024-57-3	Heptachlor epoxide	<5.7	**12**		
465-73-6	Isodrin				
72-43-5	Methoxychlor	<17	**<14**		
8001-35-2	Toxaphene	<100	<100		

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Table 21-A

ORGANOCHLORINE PESTICIDES ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID: LL1-

Project: Ravenna

Date Sampled: 7/5/2011 Method No: EPA 8081

QC-SAMPLE NO: LL1SB-645M-0101-SO QA-SAMPLE NO.: LL1SB-646M-0101-SO

Date Analyzed: 12/8/2011 Repeated Anaysis Date Analyzed: 07/21/11

Lab Name: TestAmerica-N. Canton Lab Name: CT Laboratories

QC DF= 1.0 QA DF=20

Matrix: soil Concentration: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
309-00-2	Aldrin	<0.68	<10		
319-84-6	α-BHC	<1.3	<12		
319-85-7	β-BHC	<1.3	<12		
58-89-9	γ-BHC (Lindane)	<1.3	<1.0		
319-86-8	δ-BHC	<1.3	<6.0		
5103-71-9	α-Chlordane	<1.3	<6.0		
5103-74-2	γ-Chlordane	<0.68	**16**		
57-74-9	Chlordane		<80		
510-15-6	Chlorobenzilate				
96-12-8	1,2-Dibromo-3-chloropropane (DBC)				
72-54-8	4,4'-DDD	<0.68	<6.0		
72-55-9	4,4'-DDE	**25**	**190**	**153.49**	
50-29-3	4,4'-DDT	<0.68	<10		
2303-16-4	Dialliate				
60-57-1	Dieldrin	<0.68	**22**		
959-98-8	Endosulfan I	<0.68	<14		
33213-65-9	Endosulfane II	<1.3	<6.0		
1031-07-8	Endosulfane-sulfate	<1.3	<1.8		
72-20-8	Endrin	<0.68	<8.0		
7421-93-4	Endrin aldehyde	**24**	<22		
53494-70-5	Endrin ketone	<0.68	<16		
76-44-8	Heptachlor	**8.4**	<8.0		
1024-57-3	Heptachlor epoxide	<1.3	**12**		
465-73-6	Isodrin				
72-43-5	Methoxychlor	<3.3	**<14**		
8001-35-2	Toxaphene	<20	<100		

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Table 22

ORGANOCHLORINE PESTICIDES ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID: LL1-

Project: Ravenna

Date Sampled: 7/5/2011 Method No: EPA 8081

QC-SAMPLE NO: LL1SB-645M-0102-SO QA-SAMPLE NO.: LL1SB-646M-0102-SO

Date Analyzed: 8/4/2011 Date Analyzed: 07/21/11

Lab Name: TestAmerica-N. Canton Lab Name: CT Laboratories

QC DF = 20 QA DF=20

Matrix: soil Concentration: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
309-00-2	Aldrin	<27	<10		
319-84-6	α-BHC	<27	<12		
319-85-7	β-BHC	<27	<12		
58-89-9	γ-BHC (Lindane)	<27	<1.0		
319-86-8	δ-BHC	<27	<6.0		
5103-71-9	α-Chlordane	<27	<6.1		
5103-74-2	γ-Chlordane	**650**	<6.1		
57-74-9	Chlordane		<81		
510-15-6	Chlorobenzilate				
96-12-8	1,2-Dibromo-3-chloropropane (DBC)				
72-54-8	4,4'-DDD	<14	<6.0		
72-55-9	4,4'-DDE	**210**	**490**	**80**	
50-29-3	4,4'-DDT	<14	<10		
2303-16-4	Dialliate				
60-57-1	Dieldrin	<14	**250**		
959-98-8	Endosulfan I	13	<14		
33213-65-9	Endosulfane II	<27	<6.0		
1031-07-8	Endosulfane-sulfate	<27	<18		
72-20-8	Endrin	16	<8.0		
7421-93-4	Endrin aldehyde	**420**	**270**	**43.5**	
53494-70-5	Endrin ketone	<14	<16		
76-44-8	Heptachlor	<27	<8.0		
1024-57-3	Heptachlor epoxide	<27	**59**		
465-73-6	Isodrin				
72-43-5	Methoxychlor	<67	**420**		
8001-35-2	Toxaphene	<410	<100		

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Table 22-A

ORGANOCHLORINE PESTICIDES ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna | LL1-

Date Sampled: 7/5/2011 | Method No: EPA 8081

QC-SAMPLE NO: LL1SB-645M-0102-SO | QA-SAMPLE NO.: LL1SB-646M-0102-SO

Date Analyzed: 12/8/2011 Repeated Analysis | Date Analyzed: 07/21/11

Lab Name: TestAmerica-N. Canton | Lab Name: CT Laboratories

QC DF = 10 | QA DF=20

Matrix: soil | Concentration: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
309-00-2	Aldrin	<13	<10		
319-84-6	α-BHC	<13	<12		
319-85-7	β-BHC	<13	<12		
58-89-9	γ-BHC (Lindane)	<13	<1.0		
319-86-8	δ-BHC	<13	<6.0		
5103-71-9	α-Chlordane	<13	<6.1		
5103-74-2	γ-Chlordane	<6.8	<6.1		
57-74-9	Chlordane		<81		
510-15-6	Chlorobenzilate				
96-12-8	1,2-Dibromo-3-chloropropane (DBC)				
72-54-8	4,4'-DDD	<6.8	<6.0		
72-55-9	4,4'-DDE	**180**	**490**	**92.537**	
50-29-3	4,4'-DDT	<6.8	<10		
2303-16-4	Dialliate				
60-57-1	Dieldrin	**21**	**250**	**169**	
959-98-8	Endosulfan I	<6.8	<14		
33213-65-9	Endosulfane II	<13	<6.0		
1031-07-8	Endosulfane-sulfate	<13	<18		
72-20-8	Endrin	<6.8	<8.0		
7421-93-4	Endrin aldehyde	**370**	**270**	**31.3**	
53494-70-5	Endrin ketone	<6.8	<16		
76-44-8	Heptachlor	<13	<8.0		
1024-57-3	Heptachlor epoxide	<13	**59**		
465-73-6	Isodrin				
72-43-5	Methoxychlor	<33	**420**		
8001-35-2	Toxaphene	**2600**	<100		

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Table 23

ORGANOCHLORINE PESTICIDES ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID: LL1-

Project: Ravenna

Date Sampled: 7/5/2011 Method No: EPA 8081

QC-SAMPLE NO: LL1SB-645M-0103-SO QA-SAMPLE NO.: LL1SB-646M-0103-SO

Date Analyzed: 7/31/2011 Date Analyzed: 07/21/11

Lab Name: TestAmerica-N. Canton Lab Name: CT Laboratories

QC DF = 20 QA DF=10

Matrix: soil Concentration: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
309-00-2	Aldrin	<27	**6**		
319-84-6	α-BHC	<27	<6.0		
319-85-7	β-BHC	**28**	<6.0		
58-89-9	γ-BHC (Lindane)	<27	<5.0		
319-86-8	δ-BHC	<27	<3.0		
5103-71-9	α-Chlordane	<27	<3.0		
5103-74-2	γ-Chlordane	<13	**12**		
57-74-9	Chlordane		<40		
510-15-6	Chlorobenzilate				
96-12-8	1,2-Dibromo-3-chloropropane (DBC)				
72-54-8	4,4'-DDD	<13	<6.0		
72-55-9	4,4'-DDE	**670**	**490**	31.0	
50-29-3	4,4'-DDT	20	<10		
2303-16-4	Dialliate				
60-57-1	Dieldrin	<14	**8.9**		
959-98-8	Endosulfan I	**13**	<7.0		
33213-65-9	Endosulfane II	<27	<3.0		
1031-07-8	Endosulfane-sulfate	<27	<8.9		
72-20-8	Endrin	**36**	<4.0		
7421-93-4	Endrin aldehyde	<27	<11		
53494-70-5	Endrin ketone	<13	<7.9		
76-44-8	Heptachlor	<27	<8.0		
1024-57-3	Heptachlor epoxide	<27	<5.0		
465-73-6	Isodrin				
72-43-5	Methoxychlor	<66	**<7.0**		
8001-35-2	Toxaphene	<400	<50		

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Table 23-A

ORGANOCHLORINE PESTICIDES ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID: LL1-

Project: Ravenna

Date Sampled: 7/5/2011 Method No: EPA 8081

QC-SAMPLE NO: LL1SB-645M-0103-SO QA-SAMPLE NO.: LL1SB-646M-0103-SO

Date Analyzed: 12/8/2011 Repeated Analysis Date Analyzed: 07/21/11

Lab Name: TestAmerica-N. Canton Lab Name: CT Laboratories

QC DF = 1.0 QA DF=10

Matrix: soil Concentration: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
309-00-2	Aldrin	<1.3	**6**		
319-84-6	α-BHC	<1.3	<6.0		
319-85-7	β-BHC	<1.3	<6.0		
58-89-9	γ-BHC (Lindane)	<1.3	<5.0		
319-86-8	δ-BHC	<1.3	<3.0		
5103-71-9	α-Chlordane	<1.3	<3.0		
5103-74-2	γ-Chlordane	<0.67	**12**		
57-74-9	Chlordane		<40		
510-15-6	Chlorobenzilate				
96-12-8	1,2-Dibromo-3-chloropropane (DBC)				
72-54-8	4,4'-DDD	<0.67	<6.0		
72-55-9	4,4'-DDE	<0.67	**490**		
50-29-3	4,4'-DDT	<0.67	<10		
2303-16-4	Dialliate				
60-57-1	Dieldrin	<0.67	**8.9**		
959-98-8	Endosulfan I	<1.3	<7.0		
33213-65-9	Endosulfane II	<1.3	<3.0		
1031-07-8	Endosulfane-sulfate	<1.3	<8.9		
72-20-8	Endrin	<0.67	<4.0		
7421-93-4	Endrin aldehyde	<1.3	<11		
53494-70-5	Endrin ketone	<0.67	<7.9		
76-44-8	Heptachlor	<1.3	<8.0		
1024-57-3	Heptachlor epoxide	<1.3	<5.0		
465-73-6	Isodrin				
72-43-5	Methoxychlor	<3.3	**<7.0**		
8001-35-2	Toxaphene	<20	<50		

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Table 24

ORGANOCHLORINE PESTICIDES ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID: LL4-

Project: Ravenna

Date Sampled: 6/26/2011 Method No: EPA 8081

QC-SAMPLE NO: LL4SS-417M-0001-SO QA-SAMPLE NO.: LL4SS-418M-0001-SO

Date Analyzed: 7/29/2011 Date Analyzed: 07/21/11

Lab Name: TestAmerica-N. Canton Lab Name: CT Laboratories

QC DF = 10 QA DF = 1

Matrix: soil Concentration: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
309-00-2	Aldrin	<14	<0.51		
319-84-6	α-BHC	<14	<0.61		
319-85-7	β-BHC	<14	<0.61		
58-89-9	γ-BHC (Lindane)	<14	<0.51		
319-86-8	δ-BHC	<14	**1.9**		
5103-71-9	α-Chlordane	<14			
5103-74-2	γ-Chlordane	<6.8	<0.3		
57-74-9	Chlordane		<4.1		
510-15-6	Chlorobenzilate				
96-12-8	1,2-Dibromo-3-chloropropane (DBC)				
72-54-8	4,4'-DDD	<6.8	<0.3		
72-55-9	4,4'-DDE	<6.8	**2.5**		
50-29-3	4,4'-DDT	<6.8	**7.2**		
2303-16-4	Dialliate				
60-57-1	Dieldrin	<6.8	<0.30		
959-98-8	Endosulfan I	<6.8	**2.9**		
33213-65-9	Endosulfane II	<14	**0.61**		
1031-07-8	Endosulfane-sulfate	<14	<0.91		
72-20-8	Endrin	<6.8	**4.6**		
7421-93-4	Endrin aldehyde	<14	<1.1		
53494-70-5	Endrin ketone	<6.8	<0.81		
76-44-8	Heptachlor	<14	**8.7**		
1024-57-3	Heptachlor epoxide	<14	<0.51		
465-73-6	Isodrin				
72-43-5	Methoxychlor	<34	**5.6**		
8001-35-2	Toxaphene	<200	<5.1		

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Table 24-A

ORGANOCHLORINE PESTICIDES ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID: LL4-

Project: Ravenna

Date Sampled: 6/26/2011 Method No: EPA 8081

QC-SAMPLE NO: LL4SS-417M-0001-SO QA-SAMPLE NO.: LL4SS-418M-0001-SO

Date Analyzed: 12/8/2011/ Repeat Analysis Date Analyzed: 07/21/11

Lab Name: TestAmerica-N. Canton Lab Name: CT Laboratories

QC DF = 1.0 QA DF = 1

Matrix: soil Concentration: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
309-00-2	Aldrin	<1.4	<0.51		
319-84-6	α-BHC	<1.4	<0.61		
319-85-7	β-BHC	**4.6**	<0.61		
58-89-9	γ-BHC (Lindane)	<1.4	<0.51		
319-86-8	δ-BHC	<1.4	**1.9**		
5103-71-9	α-Chlordane	<1.4			
5103-74-2	γ-Chlordane	<0.69	<0.3		
57-74-9	Chlordane		<4.1		
510-15-6	Chlorobenzilate				
96-12-8	1,2-Dibromo-3-chloropropane (DBC)				
72-54-8	4,4'-DDD	<0.69	<0.3		
72-55-9	4,4'-DDE	**1.6**	**2.5**	43.902	
50-29-3	4,4'-DDT	**0.74**	**7.2**	162.72	
2303-16-4	Dialliate				
60-57-1	Dieldrin	<0.69	<0.30		
959-98-8	Endosulfan I	<0.69	**2.9**		
33213-65-9	Endosulfane II	<1.4	**0.61**		
1031-07-8	Endosulfane-sulfate	<1.4	<0.91		
72-20-8	Endrin	<0.69	**4.6**		
7421-93-4	Endrin aldehyde	**3.1**	<1.1		
53494-70-5	Endrin ketone	<0.69	<0.81		
76-44-8	Heptachlor	<1.4	**8.7**		
1024-57-3	Heptachlor epoxide	<1.4	<0.51		
465-73-6	Isodrin				
72-43-5	Methoxychlor	**6.3**	**5.6**		
8001-35-2	Toxaphene	<20	<5.1		

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Table 25

ORGANOCHLORINE PESTICIDES ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna — LL3-

Date Sampled: 7/2/2011 — Method No: EPA 8081

QC-SAMPLE NO: LL3SD-417M-0001-SD — QA-SAMPLE NO.: LL3SD-418M-0001-SD

Date Analyzed: 7/31/2011 — Date Analyzed: 07/21/11

Lab Name: TestAmerica-N. Canton — Lab Name: CT Laboratories

QC DF =50 — QA DF = 2

Matrix: soil — Concentration: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
309-00-2	Aldrin	<68	<0.1		
319-84-6	α-BHC	<68	<1.2		
319-85-7	β-BHC	**130**	<1.2		
58-89-9	γ-BHC (Lindane)	<68	<0.1		
319-86-8	δ-BHC	<68	<0.61		
5103-71-9	α-Chlordane	<68	<0.61		
5103-74-2	γ-Chlordane	<34	<0.61		
57-74-9	Chlordane		<8.2		
510-15-6	Chlorobenzilate				
96-12-8	1,2-Dibromo-3-chloropropane (DBC)				
72-54-8	4,4'-DDD	<34	<0.61		
72-55-9	4,4'-DDE	<34	**36**		
50-29-3	4,4'-DDT	<34	<0.1		
2303-16-4	Dialliate				
60-57-1	Dieldrin	<34	<0.61		
959-98-8	Endosulfan I	<34	<1.4		
33213-65-9	Endosulfane II	<68	**1.6**		
1031-07-8	Endosulfane-sulfate	<68	<1.8		
72-20-8	Endrin	<34	**20**		
7421-93-4	Endrin aldehyde	<68	<2.2		
53494-70-5	Endrin ketone	<34			
76-44-8	Heptachlor	<68	**110**		
1024-57-3	Heptachlor epoxide	<68	**3.1**		
465-73-6	Isodrin				
72-43-5	Methoxychlor	<170	<1.4		
8001-35-2	Toxaphene	<1000	<10		

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Table 25-A

ORGANOCHLORINE PESTICIDES ANALYSIS

QA/QC COMPARISON TABLE

Customer Sample ID: LL3-

Project: Ravenna

Date Sampled: 7/2/2011 Method No: EPA 8081

QC-SAMPLE NO: LL3SD-417M-0001-SD QA-SAMPLE NO.: LL3SD-418M-0001-SD

Date Analyzed: 12/8/2011 Repeat Analysis Date Analyzed: 07/21/11

Lab Name: TestAmerica-N. Canton Lab Name: CT Laboratories

QC DF =5.0 QA DF = 2

Matrix: soil Concentration: ug/kg

CAS NO	COMPOUND	QC Sample	QA Sample	RPD	Q
309-00-2	Aldrin	<6.8	<0.1		
319-84-6	α-BHC	<6.8	<1.2		
319-85-7	β-BHC	<6.8	<1.2		
58-89-9	γ-BHC (Lindane)	<6.8	<0.1		
319-86-8	δ-BHC	<6.8	<0.61		
5103-71-9	α-Chlordane	<6.8	<0.61		
5103-74-2	γ-Chlordane	<3.4	<0.61		
57-74-9	Chlordane		<8.2		
510-15-6	Chlorobenzilate				
96-12-8	1,2-Dibromo-3-chloropropane (DBC)				
72-54-8	4,4'-DDD	<3.4	<0.61		
72-55-9	4,4'-DDE	**10**	**36**	**113.04**	
50-29-3	4,4'-DDT	<3.4	<0.1		
2303-16-4	Dialliate				
60-57-1	Dieldrin	<3.4	<0.61		
959-98-8	Endosulfan I	<3.4	<1.4		
33213-65-9	Endosulfane II	<6.8	**1.6**		
1031-07-8	Endosulfane-sulfate	<6.8	<1.8		
72-20-8	Endrin	<3.4	**20**		
7421-93-4	Endrin aldehyde	**5.2**	<2.2		
53494-70-5	Endrin ketone	**25**			
76-44-8	Heptachlor	<6.8	**110**		
1024-57-3	Heptachlor epoxide	<6.8	**3.1**		
465-73-6	Isodrin				
72-43-5	Methoxychlor	**210**	<1.4		
8001-35-2	Toxaphene	<100	<10		

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Table 26

NITROAROMATICS, NITAMINES, NITRATE ESTERS

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna

L12SS

Date Sampled: 7/3/2011

Method No. EPA8330B

QC-SAMPLE NO: L12SS-301M-0001-SO

QA-SAMPLE NO. L12SS-302M-0001-SO

Date Analyzed: 7/29/2011

Date Analyzed 7/21/2011

Lab Name: **TestAmerica-N. Canton**

Lab Name: **CT Laboratories**

Matrix: SOIL

CONCENTRATION UNITS: mg/Kg)

Analyte	Abbeviatio	QC sample		QA Sample	RPD	Q
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazoc	HMX	<0.1		<0.12		
Hexahydro-1,3,5-trinitro-1,3,5-triazine	RDX	<0.1		<0.14		
1,3,5-Trinitrobenzene	1,3,5-TNB	<0.1		<0.13		
1,3-Dinitrobenzene	1,3-DNB	<0.1		<0.08		
Methyl-2,4,6-trinitrophenylnitramine	TETRYL		0.25	<0.09		
Nitrobenzene	NB		0.20	<0.04		
2,4,6-Trinitrotoluene	2,4,6-TNT	<0.1		0.24		
4-Amino-2,6-dinitrotoluen	4-Am-DNT	<0.1		<0.07		
2-Amino-4,6-dinitrotoluen	2-Am-DNT	<0.1		<0.05		
2,4-Dinitrotoluene	2,4-DNT	<0.1		<0.08		
2,6-Dinitrotoluene	2,6-DNT	<0.1		<0.07		
2-Nitrotoluene	2-NT	<0.1		<0.09		
3-Nitrotoluene	3-NT	<0.1		< 0.07		
4-Nitrotoluene	4-NT	<0.1		<0.07		
Nitroglycerin	NG	<0.1		<0.5		
Pentaerythritol tetranitrat	PETN	<0.1		<0.5		
3,5-Dinitroaniline	3,5-DNA			<0.09		

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Table 27

NITROAROMATICS, NITAMINES, NITRATE ESTERS

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna — LL4SS

Date Sampled: 6/26/2011 — Method No. EPA8330B

QC-SAMPLE NO: LL4SS-417M-0001-SO — QA-SAMPLE NO. LL4SS-418M-0001-SO

Date Analyzed: 7/20/2011 — Date Analyzed 7/21/2011

Lab Name: **TestAmerica-N. Canton** — Lab Name: **CT Laboratories**

Matrix: SOIL — CONCENTRATION UNITS: mg/Kg)

Analyte	Abbeviatio	QC sample		QA Sample	RPD	Q
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazoci	HMX	<0.098		<0.12		
Hexahydro-1,3,5-trinitro-1,3,5-triazine	RDX	<0.098		<0.14		
1,3,5-Trinitrobenzene	1,3,5-TNB	<0.098		<0.13		
1,3-Dinitrobenzene	1,3-DNB	< 0.24		<0.08		
Methyl-2,4,6-trinitrophenylnitramine	TETRYL	< 0.24		<0.09		
Nitrobenzene	NB	< 0.24		<0.04		
2,4,6-Trinitrotoluene	2,4,6-TNT	<0.098		<0.090		
4-Amino-2,6-dinitrotoluen	4-Am-DNT	<0.098		<0.07		
2-Amino-4,6-dinitrotoluen	2-Am-DNT	<0.098		<0.05		
2,4-Dinitrotoluene	2,4-DNT	).098		<0.08		
2,6-Dinitrotoluene	2,6-DNT	< 0.24		<0.07		
2-Nitrotoluene	2-NT	< 0.24		<0.09		
3-Nitrotoluene	3-NT	< 0.24		< 0.07		
4-Nitrotoluene	4-NT	< 0.24		<0.07		
Nitroglycerin	NG	< 0.24		<0.5		
Pentaerythritol tetranitrat	PETN	< 0.48		<0.5		
3,5-Dinitroaniline	3,5-DNA			<0.09		

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Table 28

NITROAROMATICS, NITAMINES, NITRATE ESTERS

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna — LL1

Date Sampled: 7/5/2011 — Method No. EPA8330B

QC-SAMPLE NO: LL1SB-645M-0101-SO — QA-SAMPLE NO. LL1SB-646M-0101-SO

Date Analyzed: 7/28/2011 — Date Analyzed 7/21/2011

Lab Name: **TestAmerica-N. Canton** — Lab Name: **CT Laboratories**

Matrix: SOIL — CONCENTRATION UNITS: mg/Kg)

Analyte	Abbeviatio	QC sample		QA Sample		RPD	Q
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazoci	HMX	0.72		<0.12			
Hexahydro-1,3,5-trinitro-1,3,5-triazine	RDX	4.7		<0.14			
1,3,5-Trinitrobenzene	1,3,5-TNB	0.091		<0.13			
1,3-Dinitrobenzene	1,3-DNB	< 0.24		<0.08			
Methyl-2,4,6-trinitrophenylnitramine	TETRYL	< 0.24		<0.09			
Nitrobenzene	NB	< 0.24		<0.04			
2,4,6-Trinitrotoluene	2,4,6-TNT	5.7			15	89.9	
4-Amino-2,6-dinitrotoluen	4-Am-DNT	0.38		<0.07			
2-Amino-4,6-dinitrotoluen	2-Am-DNT	0.15		<0.05			
2,4-Dinitrotoluene	2,4-DNT	0.028		<0.08			
2,6-Dinitrotoluene	2,6-DNT	< 0.24		<0.07			
2-Nitrotoluene	2-NT	< 0.24		<0.09			
3-Nitrotoluene	3-NT	< 0.24		< 0.07			
4-Nitrotoluene	4-NT	< 0.24		<0.07			
Nitroglycerin	NG	< 0.24		<0.5			
Pentaerythritol tetranitrat	PETN	< 0.48		<0.5			
3,5-Dinitroaniline	3,5-DNA			<0.09			

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Table 29

NITROAROMATICS, NITAMINES, NITRATE ESTERS

QA/QC COMPARISON TABLE

Customer Sample ID

Project: Ravenna

LL1

Date Sampled: 7/5/2011

Method No. EPA8330B

QC-SAMPLE NO: LL1SB-645M-0102-SO

QA-SAMPLE NO. LL1SB-646M-0102-SO

Date Analyzed: 7/28/2011

Date Analyzed 7/21/2011

Lab Name: **TestAmerica-N. Canton**

Lab Name: **CT Laboratories**

Matrix: SOIL

CONCENTRATION UNITS: mg/Kg)

Analyte	Abbeviatio	QC sample		QA Sample	RPD	Q
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazoc	HMX	0.15		<0.12		
Hexahydro-1,3,5-trinitro-1,3,5-triazine	RDX	0.34		<0.14		
1,3,5-Trinitrobenzene	1,3,5-TNB	<0.1		<0.13		
1,3-Dinitrobenzene	1,3-DNB	<0.1		<0.08		
Methyl-2,4,6-trinitrophenylnitramine	TETRYL	<0.1		<0.089		
Nitrobenzene	NB	<0.1		<0.04		
2,4,6-Trinitrotoluene	2,4,6-TNT	0.19		<0.089		
4-Amino-2,6-dinitrotoluen	4-Am-DNT	0.13		<0.07		
2-Amino-4,6-dinitrotoluen	2-Am-DNT	<0.1		<0.05		
2,4-Dinitrotoluene	2,4-DNT	<0.1		<0.08		
2,6-Dinitrotoluene	2,6-DNT	<0.1		<0.07		
2-Nitrotoluene	2-NT	<0.1		<0.09		
3-Nitrotoluene	3-NT	<0.1		< 0.07		
4-Nitrotoluene	4-NT	<0.1		<0.069		
Nitroglycerin	NG	<0.25		<0.5		
Pentaerythritol tetranitrat	PETN	<0.25		<0.5		
3,5-Dinitroaniline	3,5-DNA			<0.09		

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Table 30

NITROAROMATICS, NITAMINES, NITRATE ESTERS

QA/QC COMPARISON TABLE

Project: Ravenna

Customer Sample ID: LL1

Date Sampled: 7/5/2011

Method No. EPA8330B

QC-SAMPLE NO: LL1SB-645M-0103-SO

QA-SAMPLE NO. LL1SB-646M-0103-SO

Date Analyzed: 7/28/2011

Date Analyzed 7/21/2011

Lab Name: **TestAmerica-N. Canton**

Lab Name: **CT Laboratories**

Matrix: SOIL

CONCENTRATION UNITS: mg/Kg)

Analyte	Abbeviatio	QC sample		QA Sample	RPD	Q
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazoci	HMX	0.26		<0.12		
Hexahydro-1,3,5-trinitro-1,3,5-triazine	RDX	0.52		1.3	85.714	
1,3,5-Trinitrobenzene	1,3,5-TNB	0.07		<0.13		
1,3-Dinitrobenzene	1,3-DNB	<0.1		<0.08		
Methyl-2,4,6-trinitrophenylnitramine	TETRYL	<0.1		<0.089		
Nitrobenzene	NB	<0.1		<0.04		
2,4,6-Trinitrotoluene	2,4,6-TNT	0.19		2.8	174.6	
4-Amino-2,6-dinitrotoluen	4-Am-DNT	0.49		0.17	96.97	
2-Amino-4,6-dinitrotoluen	2-Am-DNT	0.16		<0.05		
2,4-Dinitrotoluene	2,4-DNT	<0.1		<0.08		
2,6-Dinitrotoluene	2,6-DNT	<0.1		<0.07		
2-Nitrotoluene	2-NT	<0.1		<0.09		
3-Nitrotoluene	3-NT	<0.1		< 0.07		
4-Nitrotoluene	4-NT	<0.1		<0.069		
Nitroglycerin	NG	<0.25		<0.5		
Pentaerythritol tetranitrat	PETN	<0.25		<0.5		
3,5-Dinitroaniline	3,5-DNA			<0.09		

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Table 31

METAL ANALYSIS

QA/QC COMPARISON TABLE

Project: Ravenna Date Sampled: 7/5/2011

QC-SAMPLE NO LL1SB-644-0101-SO QA-SAMPLE NO.: LL1SB-646M-0101-SO

Date Analyzed: 7/15/2011 Date Analyzed: 7/11/2011

Method No: **EPA 6020** Method No: EPA 6010

Lab Name: TestAmerica Laboratories Lab Name: **CT Laboratories**

Matrix: Concentration Units (mg/kg dry weight):

Analyte	QC-Sample (S)	C	**QA-Sample (S)**	C	**RPD**	Q	**METHOD**
Aluminum	4300.0		3200		**29.3**		P
Antimony	0.1		0.110		**16.7**		P
Arsenic	5.9		4.00		**38.4**		P
Barium	30.0		21.3		**33.9**		P
Beryllium	0.29		0.210		**32.0**		P
Cadmium	0.5		<0.0061				P
Calcium	3900.0		2030		**63.1**		P
Chromium	15.0		10.9		**31.7**		P
Cobalt	4.8		3.00		**46.2**		P
Copper	10.0		10.7		**6.8**		P
Iron	15000.0		12000		**22.2**		P
Lead	36.0		16.9		**72.2**		P
Magnesium	1500.0		945		**45.4**		P
Manganese	540.0		498		**8.1**		P
Mercury			0.012				CV
Nickel	13.0		6.60		**65.3**		P
Potassium	580.0		339		**52.4**		P
Selenium	0.55		1.10		**66.7**		P
Silver	< 0.22		<0.017				P
Sodium	31.0		189		**143.6**		P
Thallium	0.10		0.650		**149.0**		P
Vanadium	8.9		6.60		**29.7**		P
Zinc	68.0		33.1		**69.0**		P

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Table 32

METAL ANALYSIS

QA/QC COMPARISON TABLE

Project: Ravenna Date Sampled: 7/5/2011

QC-SAMPLE NO LL1SB-645-0101-SO QA-SAMPLE NO.: LL1SB-646M-0101-SO

Date Analyzed: 7/19/2011 Date Analyzed: 7/11/2011

Method No: **EPA 6020** Method No: EPA 6010

Lab Name: TestAmerica Laboratories Lab Name: **CT Laboratories**

Matrix: Concentration Units (mg/kg dry weight):

Analyte	QC-Sample (S)	C	QA-Sample (S)	C	RPD	Q	METHOD
Aluminum	4300.0		3200		29.3		P
Antimony	0.8		0.110		153.7		P
Arsenic	5.8		4.00		36.7		P
Barium	39.0		21.3		58.7		P
Beryllium	0.4		0.210		50.0		P
Cadmium	3.8		<0.0061				P
Calcium	9000.0		2030		126.4		P
Chromium	29.0		10.9		90.7		P
Cobalt	5.4		3.00		57.1		P
Copper	22.0		10.7		69.1		P
Iron	19000.0		12000		45.2		P
Lead	53.0		16.9		103.3		P
Magnesium	1700.0		945		57.1		P
Manganese	600.0		498		18.6		P
Mercury			0.012				CV
Nickel	20.0		6.60		100.8		P
Potassium	590.0		339		54.0		P
Selenium	0.44		1.10		85.7		P
Silver	0.018		<0.017				P
Sodium	60.0		189		103.6		P
Thallium	0.12		0.650		137.7		P
Vanadium	8.1		6.60		20.4		P
Zinc	100.0		33.1		100.5		P

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Table 33

METAL ANALYSIS

QA/QC COMPARISON TABLE

Project: Ravenna Date Sampled: 7/5/2011

QC-SAMPLE NO LL1SB-645M-0102-SO QA-SAMPLE NO.: LL1SB-646M-0102-SO

Date Analyzed: 8/29/2011 Date Analyzed: 7/11/2011

Method No: **EPA 6020** Method No: EPA 6010

Lab Name: TestAmerica-N. Canton Lab Name: **CT Laboratories**

Matrix: Concentration Units (mg/kg dry weight):

Analyte	QC-Sample (S)	C	QA-Sample (S)	C	RPD	Q	METHOD
Aluminum	6200.0		7290		**16.2**		P
Antimony	<0.15		3.00				P
Arsenic	5.5		4.20		**26.8**		P
Barium	71.0		65.3		**8.4**		P
Beryllium	0.6		0.470		**22.6**		P
Cadmium	0.4		<0.0061				P
Calcium	29000.0		22500		**25.2**		P
Chromium	27.0		189		**150.0**		P
Cobalt	4.0		3.20		**22.2**		P
Copper	12.0		15.1		**22.9**		P
Iron	13000.0		12900		**0.8**		P
Lead	75.0		51.2		**37.7**		P
Magnesium	2800.0		2860		**2.1**		P
Manganese	690.0		504		**31.2**		P
Mercury	0.043		0.033		**26.3**		CV
Nickel	17.0		13.4		**23.7**		P
Potassium	690.0		1500		**74.0**		P
Selenium			1.40				P
Silver	<0.25		<0.017				P
Sodium	96.0		388.000		**120.7**		P
Thallium			0.650				P
Vanadium	8.8		7.40		**17.3**		P
Zinc	63.0		37.7		**50.2**		P

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Table 34

METAL ANALYSIS

QA/QC COMPARISON TABLE

Project: Ravenna Date Sampled: 7/5/2011

QC-SAMPLE NO LL1SB-645M-0103-SO QA-SAMPLE NO.: LL1SB-646M-0103-SO

Date Analyzed: 8/25/2011 Date Analyzed: 07/11/11

Method No: **EPA 6020** Method No: EPA 6010

Lab Name: TestAmerica-North Cantor Lab Name: **CT Laboratories**

Matrix: Concentration Units (mg/kg dry weight):

Analyte	QC-Sample (S)	C	QA-Sample (S)	C	RPD	Q	METHOD
Aluminum	3400.0		2370		**35.7**		P
Antimony	<0.14		5.30				P
Arsenic	3.5		2.90		**18.8**		p
Barium	23.0		18.6		**21.2**		P
Beryllium	0.5		0.140		**106.7**		P
Cadmium	0.150		0.029		**135.2**		P
Calcium	9000.0		5840		**42.6**		P
Chromium	17.0		313		**179.4**		P
Cobalt	2.1		2.40		**13.3**		P
Copper	4.4		8.10		**59.2**		P
Iron	12000.0		9270		**25.7**		P
Lead	6.3		8.00		**23.8**		P
Magnesium	1800.0		676		**90.8**		P
Manganese	310.0		223		**32.6**		P
Mercury	<0.026		<0.0021				CV
Nickel	10.0		8.10		**21.0**		P
Potassium	460.0		802		**54.2**		P
Selenium	0.4		0.310		**30.1**		p
Silver	<0.23		<0.017				p
Sodium	66.0		416		**145.2**		P
Thallium	0.1		0.280		**123.7**		p
Vanadium	3.9		3.70		**5.3**		p
Zinc	42.0		17.0		**84.7**		P

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Table 35

METAL ANALYSIS

QA/QC COMPARISON TABLE

Project: Ravenna

Date Sampled: 7/3/2011

QC-SAMPLE NO: LL2SS-517M-0001-SO

QA-SAMPLE NO.: LL2SS-518M-0001-SO

Date Analyzed: 8/29/2011

Method No: **EPA 6020**

Lab Name: TestAmerica-N. Canton

Date Analyzed: 7/11/2011

Method No: EPA 6010

Lab Name: **CT Laboratories**

Matrix:

Concentration Units (mg/kg dry weight):

Analyte	QC-	C	QA- Sample (S)	C	RPD	Q	METHOD
Aluminum	11000.0		9770		11.8		P
Antimony	0.1		35.0		198.4		P
Arsenic	9.2		9.90		7.3		P
Barium	88.0		76.4		14.1		P
Beryllium	1.0		0.77		26.0		P
Cadmium	0.17		0.09		63.6		P
Calcium	23000.0		16600		32.3		P
Chromium	32.0		17.7		57.5		P
Cobalt	9.2		7.50		20.4		P
Copper	18.0		22.6		22.7		P
Iron	20000.0		21600		7.7		P
Lead	33.0		42.6		25.4		P
Magnesium	4500.0		4260		5.5		P
Manganese	870.0		613		34.7		P
Mercury	0.022		0.014		44.4		CV
Nickel	29.0		21.2		31.1		P
Potassium	1200.0		854		33.7		P
Selenium	1.1		0.91		18.9		P
Silver	<0.46		<0.017				P
Sodium	170.0		482.0		95.7		P
Thallium	0.15		0.73		131.8		P
Vanadium	14.0		12.1		14.6		P
Zinc	62.0		54.6		12.7		P

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Table 36

METAL ANALYSIS

QA/QC COMPARISON TABLE

Project: Ravenna Date Sampled: 7/2/2011

QC-SAMPLE NO LL3SD-417M-0001-SD QA-SAMPLE NO.: LL3SD-418M-0001-SD

Date Analyzed: 8/25/2011 Date Analyzed: 7/11/2011

Method No: **EPA 6020** Method No: EPA 6010

Lab Name: **TestAmerica-N. Canton** Lab Name: **CT Laboratories**

Matrix: Concentration Units (mg/kg dry weight):

Analyte	QC-Sample (S)	C	QA-Sample (S)	C	RPD	Q	METHOD
Aluminum	9400.0		10600		**12.0**		P
Antimony	1.5		5.90		**118.9**		P
Arsenic	13.0		12.9		**0.8**		P
Barium	130.0		158		**19.4**		P
Beryllium	1.2		1.20		**0.0**		P
Cadmium	1.1		0.71		**43.1**		P
Calcium	9800.0		10700		**8.8**		P
Chromium	31.0		298		**162.3**		P
Cobalt	19.0		13.3		**35.3**		P
Copper	10.0		18.6		**60.1**		P
Iron	25000.0		43200		**53.4**		P
Lead	22.0		56.1		**87.3**		P
Magnesium	2400.0		2780		**14.7**		P
Manganese	3400.0		4880		**35.7**		P
Mercury	0.330		0.23		**35.7**		CV
Nickel	30.0		25.4		**16.6**		P
Potassium	670.0		1040		**43.3**		P
Selenium	1.1		2.40		**74.3**		P
Silver	<0.5		<0.017	u			P
Sodium	69.0		431		**144.8**		P
Thallium	0.1		4.00		**187.4**		P
Vanadium	23.0		20.8		**10.0**		P
Zinc	170.0		136		**22.2**		P

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Table 37

METAL ANALYSIS

QA/QC COMPARISON TABLE

Project: Ravenna Date Sampled: 6/26/2011

QC-SAMPLE NO LL4SS-417M-0001-SO QA-SAMPLE NO.: LL4SS-418M-0001-SO

Date Analyzed: 8/26/2011 Date Analyzed: 07/11/11

Lab Name: TestAmerica-N.Canton Lab Name: CT Laboratories

Method No: EPA 6020 Method No: EPA 6010C

Matrix: Concenration Units: mg/kg

Analyte	QC-Sample (S)	C	QA-Sample (S)	C	RPD	Q	METHOD
Aluminum	7000.0		7630.0		8.6		P
Antimony	0.092		0.8		158.7		P
Arsenic	8.30		8.9		7.0		p
Barium	70.0		148.0		71.6		P
Beryllium	0.46		0.5		0.0		P
Cadmium	0.29		0.2		27.5		P
Calcium	5200.0		5310.0		2.1		P
Chromium	22.0		55.6		86.6		P
Cobalt	6.60		6.4		3.1		p
Copper	14.0		18.6		28.2		P
Iron	17000.0		18700.0		9.5		P
Lead	20.0		24.7		21.0		P
Magnesium	2100.0		2100.0		0.0		P
Manganese	480.0		495.0		3.1		P
Mercury	0.0240		0.0280		15.4		CV
Nickel	47.0		17.7		90.6		P
Potassium	730.0		713.0		2.4		P
Selenium	0.840		0.8100		3.6		P
Silver	0.039		<0.017				p
Sodium	51.0		200.0		118.7		P
Thallium	0.160		0.6		112.3		P
Vanadium	12.0		11.1		7.8		P
Zinc	82.0		112.0		30.9		P

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Table 38

METAL ANALYSIS

QA/QC COMPARISON TABLE

Project: Ravenna

Date Sampled: 7/3/2011

QC-SAMPLE NO: L12SS-301M-0001-SO

QA-SAMPLE NO.: L12SS-302M-0001-SO

Date Analyzed: 8/29/2011

Method No: **EPA 6020**

Lab Name: TestAmerica - N. Canton

Date Analyzed: 07/11/11

Method No: EPA 6010

Lab Name: **CT Laboratories**

Matrix:

Concentration Units (mg/kg dry weight):

Analyte	QC-Sample (S)	C	QA-Sample (S)	C	RPD	Q	METHOD
Aluminum	24000.0		19500		**20.7**		P
Antimony	1.4		2.70		**63.4**		P
Arsenic	12.0		8.90		**29.7**		P
Barium	84.0		75.4		**10.8**		P
Beryllium	0.9		0.67		**33.5**		P
Cadmium	1.4		0.75		**60.5**		P
Calcium	19000.0		14700		**25.5**		P
Chromium	58.0		150		**88.5**		P
Cobalt	6.7		5.10		**27.1**		P
Copper	650.0		665		**2.3**		P
Iron	25000.0		22200		**11.9**		P
Lead	110.0		88.4		**21.8**		P
Magnesium	4300.0		3760		**13.4**		P
Manganese	820.0		670		**20.1**		P
Mercury	0.110		0.064		**52.9**		CV
Nickel	54.0		42.9		**22.9**		P
Potassium	980.0		1120		**13.3**		P
Selenium	1.2		1.50		**22.2**		F
Silver	0.32		<0.017				P
Sodium	130.0		350		**91.7**		P
Thallium	<1.3		0.84				P
Vanadium	21.0		14.8		**34.6**		F
Zinc	340.0		237		**35.7**		P

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Appendix H – Data Validation Report

(Provided in the attached CD)

U.S. Army Corps of Engineers
Louisville District

Ravenna Army Ammunition Plant
Characterization Sampling for Closure of Load Lines 1, 2, 3, 4 & 12
June & July 2011 Sampling
Ravenna, Ohio

Final Data Validation Report
Sample Delivery Groups:
Multiple

September 2012

Prepared for:
U.S. Army Corps of Engineers
Louisville District
Contract No. W912QR-08-D-0001
Delivery Order 0190003

Prepared by:
MEC^X, Ltd.
12269 East Vassar Drive
Aurora, Colorado 80014

CONTRACTOR STATEMENT OF INDEPENDANT TECHNICAL REVIEW

MEC^X, LP (MEC^X) has completed the Data Validation Report for Multiple Sample Delivery Groups from the Ravenna Army Ammunition Plant Characterization Sampling for Closure of Load Lines 1, 2, 3, 4, & 12, June & July 2011 Sampling. Notice is hereby given that an independent technical review has been conducted to determine the usability and bias of the analytical data.

Significant concerns and the resolution are as follows:

None

As noted above, all concerns resulting from this independent technical review have been considered.

Elizabeth Wessling
Senior Environmental Chemist
MEC^X Independent Technical Review Team Leader

Patti Meeks, Ph.D.
Senior Environmental Chemist
MEC^X Independent Technical Review Team Member

EXECUTIVE SUMMARY

The overall objective of the project described in this document was to confirm the completion of cleanup activities and to obtain site closure at Load Lines 1, 2, 3, 4, and 12. Data described in this report are comprised of eighty-six primary soil multi-incremental (MI) samples, seven primary discrete samples, five duplicate MI samples, five duplicate discrete samples, and two equipment rinsate samples collected by Prudent Technologies, Inc. in June and July 2011.

This report details the findings of the primary sample data validation, analysis of field duplicate results, and the determination of data usability performed by MEC^X, LP (MEC^X) on the samples described above.

One or more or the following analyses were performed for the primary samples (see Table 1) by TestAmerica Laboratories, North Canton (TA-North Canton) located in North Canton, Ohio:

- United States Environmental Protection Agency (USEPA) SW-846 Method 6020 for 22 metals or for arsenic only
- USEPA SW-846 Method 7470A/7471A for mercury
- USEPA SW-846 Method 8260B for 37 volatile organic compounds (VOCs)
- USEPA SW-846 Method 8270C for 32 semivolatile organic compounds (SVOCs) or for 16 polynuclear aromatic hydrocarbons (PAHs)
- USEPA SW-846 Method 8081 for 20 pesticides
- USEPA SW-846 Method 8082 for 7 polychlorinated biphenyls (PCBs)
- USEPA SW-846 Method 7196A for hexavalent chromium

TA-North Canton subcontracted the following analyses to TA-West Sacramento, located in Sacramento, California:

- USEPA SW-846 Method 8330B for 16 explosive compounds
- USEPA SW-846 8330M for nitroguanidine
- TestAmerica Laboratory Standard Operating Procedure WS-WC-005 for nitrocellulose (equivalent to USEPA SW-846 Method 9056)

Eight MI and eight discrete quality assurance (QA) samples were submitted to CT Laboratories (CT) in Baraboo, Wisconsin and were analyzed for one or more of the following analyses:

- USEPA SW-846 Method 6010C for 22 metals
- USEPA SW-846 Method 7471A for mercury
- USEPA SW-846 Method 8260B for 38 VOCs
- USEPA SW-846 Method 8270C for 65 SVOCs
- USEPA SW-846 Method 8081 for 22 pesticides
- USEPA SW-846 Method 8082 for 9 PCBs
- USEPA SW-846 Method 8330B for 16 explosive compounds

- USEPA SW-846 8330M for nitroguanidine
- USEPA SW-846 Method 9056 Modified for nitrocellulose

No hexavalent chromium QA samples were submitted to the QA laboratory.

Specific concerns regarding the primary data are noted below:

- Most chains-of-custody had some text that was overwritten or obliterated. Some changes were appropriately lined out but were not initialed or dated. A few changes were appropriately lined out and initialed but were not dated.

- Sample identifications and analyses were altered by the laboratory, apparently without direction from Prudent. A document provided by J. Jent indicated the changes were generally acceptable but did not provide written documentation of the changes.

- Hexavalent chromium was reported utilizing the method of standard additions (MSA), which is recommended for matrices expected to have interference. Results from MSA are best when the MSA linear regression slope is nearly equivalent to the initial calibration slope; however the slopes for most site samples were more than a factor of 10 less than the initial calibration slope, indicating a nominal change in absorbance is observed in the MSA analyses for a relatively significant change in concentration.

- Limit of Detection exceedances for nondetected site soil analytes in validated samples:

    - Pesticides – 51 LODs and 43 DLs

    - PCBs - 14 LODs and 14 DLs

    - VOCs - 74 LODs and 36 DLs

    - SVOCs - 59 LODs and 53 DLs

    - Metals – 1 LOD

Some data were rejected due to calibration or other quality control outliers. Rejected data are not usable. Results with DLs that exceed project criteria may be usable for their intended purposes; however, it is dependent on the final data user to make this determination on a case-by-case basis. All remaining results are usable for their intended purposes as qualified by MEC^X.

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APPENDICES

Appendix A Qualified Sample Forms Is

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Appendix C Primary/Field Duplicate Sample Comparisons

Appendix D Validator Checklists

ACRONYMS AND ABBREVIATIONS

ADR	Automated Data Review
°C	Degrees Celsius
CCB	Continuing Calibration Blank
CCC	Calibration Check Compounds
CCV	Continuing Calibration Verification
CT	CT Laboratories
%D	Percent Difference
DL	Detection Limit
DoD	Department of Defense
EDD	Electronic Data Deliverable
FWQAPP	Facility-Wide Quality Assurance Project Plan
GC/MS	Gas Chromatography/Mass Spectrometry
ICSA	Interference Check Sample A
ICSAB	Interference Check Sample AB
ICV	Initial Calibration Verification
ICP	Inductively Coupled Plasma
ISM	Incremental Sampling Methodology
LCG	Louisville Chemistry Guidance
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection
LOQ	Limit of Quantitation
MEC^X	MEC^X, LP
MRL	Method Reporting Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
OHARNG	Ohio Army National Guard
PCB	Polychlorinated Biphenyl
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
QSM	Quality Systems Manual
RL	Reporting Limit
RPD	Relative Percent Difference
RRF	Relative Response Factor
RSD	Relative Standard Deviation
RVAAP	Ravenna Army Ammunition Plant
SAIC	Science Applications International Corporation
SDG	Sample Delivery Group
SPCC	System Performance Check Compound
SVOC	Semivolatile Organic Compounds
TA	TestAmerica Laboratories
USACE	United State Army Corps of Engineers
USEPA	United State Environmental Protection Agency

1. INTRODUCTION

1.1 PROJECT OVERVIEW

The overall objective of the project described in this document was to confirm the completion of cleanup activities and to obtain site closure at Load Lines 1, 2, 3, 4, and 12.

Sampling was conducted by Prudent Technologies, Inc. (Prudent) in June and July 2012. Eighty-six primary soil multi-incremental (MI) samples, seven primary discrete samples, five duplicate MI samples, five duplicate discrete samples, and two equipment rinsates were collected.

One or more of the following analyses were performed for the primary samples (see Table 1) by TestAmerica Laboratories, North Canton (TA-North Canton) located in North Canton, Ohio:

- United States Environmental Protection Agency (USEPA) SW-846 Method 6020 for 22 metals or for arsenic only
- USEPA SW-846 Method 7470A/7471A for mercury
- USEPA SW-846 Method 8260B for 37 volatile organic compounds (VOCs)
- USEPA SW-846 Method 8270C for 32 semivolatile organic compounds (SVOCs) or for 16 polynuclear aromatic hydrocarbons (PAHs)
- USEPA SW-846 Method 8081 for 20 pesticides
- USEPA SW-846 Method 8082 for 7 polychlorinated biphenyls (PCBs)
- USEPA SW-846 Method 7196A for hexavalent chromium

TA-North Canton subcontracted the following analyses to TA-West Sacramento, located in Sacramento, California:

- USEPA SW-846 Method 8330B for 16 explosive compounds
- USEPA SW-846 8330M for nitroguanidine
- TestAmerica Laboratory Standard Operating Procedure WS-WC-005 for nitrocellulose (equivalent to USEPA SW-846 Method 9056)

Eight MI and 8 discrete quality assurance (QA) samples were submitted to CT Laboratories (CT) in Baraboo, Wisconsin. The evaluation of the QA samples and the sample comparisons are described in the Chemical Quality Assurance Report for the Ravenna Army Ammunition Plant Characterization Sampling for Closure of Load Lines 1, 2, 3, 4, & 12, June & July 2011 Sampling (MEC^X, 2012).

This report describes findings of the primary sample data validation, analysis of primary/field duplicate results, and the determination of data usability performed by MEC^X, LP (MEC^X) on the site samples reported in 11 sample delivery groups (SDGs) from TA-North Canton.

1.2 PREVIOUS ACTIVITIES AND DATA

Located in northeastern Ohio on approximately 21,000 acres, Ravenna Army Ammunitions Plant (RVAAP) was established in 1940 to load, store, and demilitarize conventional artillery ammunition, bombs, mines, fuses and boosters, primers and percussion elements. Ordnance production and storage for World War II continued until August 1945 when ordnance production at the facility was phased out and sent to Plum Brook Ordnance Works in Sandusky, Ohio and Keystone Ordnance Works in Meadville, Pennsylvania. All production at the facility had ceased by 1957 and the plant was placed on standby. In 1961, the plant was operational for seven months, processing and performing explosive melt-out of bombs. It was deactivated late in 1961. From mid-1968 until 1971, the plant was reactivated to load, assemble, and pack munitions on three load lines and two component lines. Operations ceased at Load Lines 1, 2, 3, and 4 in 1971; however, the Lines were reactivated to perform demilitarization operations for several months in 1973 and 1974. In 1992, RVAAP was again placed on "Inactive" status. Salvage and demolition operations started in 1998 and administrative control of the facility was transferred to the Ohio Army National Guard in 1999.

In 1999 and 2007 the buildings at Load Line 1 and Load Lines 2, 3, and 4, respectively, were demolished. The floor slabs and foundations were left in place due to lack of funding for their removal. Remedial investigations of Load Line 1 and Load Lines 2, 3, and 4 were completed in 2003 and 2004, respectively. The subsequent feasibility study, record of decision, remedial action work plan and remedial action for all four load lines were based on a future land use of the Ohio Army National Guard (OHARNG) training under a set of exposure assumptions. In 2007, remediation of areas outside of the building footprints was conducted to facilitate training of the OHARNG per the initial training exposure assumptions. As that remediation was being completed, additional Army funding became available which allowed for the removal of the building floor slabs and foundations in 2008 and 2009. Additionally, the set of assumptions associated with the OHARNG training had to be modified to account for changes in mission and training. Concurrent with the floor slab and foundation removal, URS Corporation determined levels of residual contamination in the soil below the floor slabs, and where those levels were above the project cleanup goals, removed those areas of soil. The subsurface characterization performed after the floor slabs were removed extended to a depth of four feet below ground surface and the resulting subsurface samples were field screened only.

In December 2009, members of the United States Armey Corps of Engineers (USACE) - Louisville District and Ohio Environmental Protection Agency collected and analyzed surface soil incremental sampling method (ISM) samples to evaluate surface soil contamination adjacent to the footprints of selected former buildings to determine if contamination was spread during the demolition of buildings In 2010, Prudent was contracted to perform sampling and characterization of deeper subsurface soils beneath the former building slabs via subsurface soil ISM. The comprehensive findings from both sampling events where compiled and presented in the *Final Sampling Report of Surface and Subsurface Incremental Sampling Methodology at Load Lines 1, 2, 3, and 4 (RVAAP-08, 09, 10 and 11)* (Prudent March 2011).

Following these investigations, an evaluation of all previous environmental information was being conducted for the Land Use Control (LUC) Assessment, per the Guidance Document for the *Evaluation of LUC Controls*, (USACE 2011), to comprehensively guide future remedial and administrative measures. Data gaps recognized during the LUC Assessment have been addressed via additional (characterization) sampling which was conducted in June-July 2011 by Prudent. This sampling effort is described in the *Draft Characterization Sampling Report of Surface and Subsurface Incremental Sampling Methodology at Load Lines 1, 2, 3, 4 and 12 (RVAAP -08, 09, 10, 11, and 12)* (Prudent December 2011). The additional characterization data is the subject of this data validation report.

2. DESCRIPTION OF WORK PERFORMED

This section describes the data verification and data validation procedures used during the evaluation of the site samples reported in 11 SDGs from TA-North Canton.

2.1 DATA VALIDATION PROCESS

Eighty-six primary soil multi-incremental (MI) samples, seven primary discrete samples, five duplicate MI samples, five duplicate discrete samples, and two equipment rinsate samples were collected in association with the field effort. Level IV validation was performed on 10% of the total number of primary samples collected. These samples and analyses are shown in Table 1 below. Primary samples were randomly chosen for Level IV validation; samples with associated QA samples or field duplicate samples were chosen where possible.

Table 1. Validated sample identification table

Sample ID	SDG	Matrix	Collection Date	Validation Level	Metals	Hexavalent Chromium	Explosives	Propellants	SVOCs	PCBs	Pesticides	VOCs
LL1SB-641M-0101-SO	J1728	Soil	7/6/2011	IV	-	-	-	-	x	-	-	-
LL2SB-512M-0101-SO	J1728	Soil	7/1/2011	IV	-	-	-	-	x	-	-	-
LL2SS-519M-0001-SO	J1728	Soil	7/2/2011	IV	-	-	-	-	x	x	-	-
LL2SS-516M-0001-SO	J1728	Soil	7/3/2011	IV	x	x	x	x	x	x	x	-
LL2SS-516V-0001-SO	J1728	Soil	7/3/2011	IV	-	-	-	-	-	-	-	x
LL3SB-415M-0103-SO	J1620	Soil	6/29/2011	IV	x	-	-	-	x	-	-	-
LL3SD-416M-0001-SD	J1728	Soil	7/2/2011	IV	x	x	x	x	x	x	x	-
LL3SD-416V-0001-SD	J1728	Soil	7/2/2011	IV	-	-	-	-	-	-	-	x
LL3SS-419M-0001-SO	J1728	Soil	7/2/2011	IV	-	-	-	-	x	-	-	-
CHASS-001M-0001-SO	J1620	Soil	6/29/2011	IV					x	x	x	-

Table 2. Duplicate identification table

Duplicate Sample ID	Parent Sample
LL2SS-517M-0001-SO	LL2SS-516M-0001-SO
LL2SS-517V-0001-SO	LL2SS-516V-0001-SO
LL3SD-417M-0001-SD	LL3SD-416M-0001-SD
LL3SD-417V-0001-SD	LL3SD-416V-0001-SD
LL4SS-417M-0001-SO	LL4SS-416M-0001/0002SO
LL4SS-417V-0001-SO	LL4SS-416V-0001/0002SO
L12SS-301M-0001-SO	L12SS-300M-0001-SO
L12SS-301V-0001-SO	L12SS-300V-0001-SO
CHASS-002M-0001-SO	CHASS-001M-0001-SO
CHASS-002V-0001-SO	CHASS-001V-0001-SO

Data validators assessed results based on the *Facility-Wide Sampling and Analysis Plan for Environmental Investigations at the Ravenna Army Ammunition Plant, Ravenna, Ohio* [SAIC,

March 2001, (FWQAPP)]), Appendix B of the Final Work Plan for Sampling & Closure of Load Lines 1, 2, 3, 4, 12 (RVAAP-08, 09, 10, 11, and 12) and other Areas of Concern, Department of Defense Quality Systems Manual for Environmental Laboratories Version 4.2 (DoD QSM, 2010), the specific EPA methods, the National Functional Guidelines for Organic Data Review (1994), and the National Functional Guidelines for Inorganic Data Review (1994). The following were reviewed for Level IV validation:

- Sample management (collection techniques, sample containers, preservation, handling, transport, chain-of-custody, holding times),
- Calibration data (initial, continuing, and method reporting limit),
- Method blank sample results,
- Laboratory control sample (LCS) or LCS/LCS duplicate (LCS/LCSD) recoveries and/or precision,
- Surrogate recoveries (if applicable),
- Matrix spike/matrix spike duplicate (MS/MSD) recoveries and precision,
- Laboratory duplicate precision,
- Post digestion spike accuracy,
- Serial dilution accuracy,
- Field QA/QC sample results,
- Interference check sample results,
- Gas chromatography/mass spectrometry (GC/MS) tuning, if a GC/MS is used,
- Internal standards performance,
- Sample results verification,
- Target compound identification,
- Raw data.

2.2 DATA VALIDATION QUALIFIERS

Data qualifiers, as defined below, were applied following the FWQAPP and the DoD QSM:

U Nondetected at the limit of detection
The analyte was analyzed for but not definitively detected.

J Estimated
The identification of the analyte is acceptable but the quality assurance criteria indicate that the quantitative values may be outside the normal expected range of precision. Additionally used to identify detects reported below the limit of quantitation (LOQ).

N Identity Presumptive and Tentative
There is presumptive evidence that the analyte is present but it has not been confirmed. There is an indication that the reported analyte is present; however, all quality control requirements necessary for confirmation were not met.

R Rejected
Data are considered to be rejected and shall not be used for environmental decisions.

2.3 DATA VALIDATION FLAGGING CODES

The qualification codes in the following table may have been used to flag the data described in this document: Sample qualifications are summarized in Appendix B. All qualifications and associated qualification codes have been entered into the electronic data deliverables (EDD) received from the laboratories and may be reviewed in the EDD appended to this report.

Table 3. Qualification code reference table

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect.
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient was noncompliant.
R	Calibration RRF was noncompliant.	%R for calibration is not within control limits.
B	Presumed contamination as indicated by the preparation (method) blank results.	Presumed contamination as indicated by the preparation (method) or calibration blank results.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or RPD high.	MS recovery was poor.
E	Not applicable	Duplicates showed poor agreement.
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D were not within control limits.
M	Tuning (BFB or DFTPP) was noncompliant.	ICPMS tuning was noncompliant
T	Presumed contamination as indicated by the trip blank results.	Not applicable.
+	False positive – reported compound was not present.	False positive – reported compound was not present.
-	False negative – compound was present but not reported.	False negative – compound was present but not reported.
F	Presumed contamination as indicated by the FB or ER results.	Presumed contamination as indicated by the FB or ER results.
$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Instrument performance for pesticides was poor.	Post Digestion Spike recovery was not within control limits.
*II, *III	A deficiency was found that has been described in the "Sample Management," section (*II) or the "Method Analyses" section (*III).	A deficiency was found that has been described in the "Sample Management," section (*II) or the "Method Analyses" section (*III).

3. DATA ACQUISITION ACTIVITIES

3.1 SAMPLE COLLECTION

Soil samples were collected in June and July 2011. The samples were submitted under chain of custody to the primary laboratory, TA-North Canton.

Unless otherwise noted below, the chains of custody associated with the samples validated at Level IV were appropriately signed by both field and/or laboratory personnel with all samples and analyses accounted for, cooler custody seals intact, and within the temperature limits of >0 and ≤6°C. All documentation regarding sample handling as presented in the case narratives, chains of custody, correspondence, and sample condition upon receipt forms was evaluated with the following remaining deficiencies. No further requests were made to the primary contractor or the laboratories, and no data were qualified.

SDG	Issue
Most SDGs	Most chains-of-custody had some text that was overwritten or obliterated. Some changed were appropriately lined out but were not initialed or dated. A few changes were appropriately lined out and initialed but were not dated.
J1728	Only SVOC analyses were requested for EQUIPMENT RINSATE 2-1; only pesticide analyses were requested for EQUIPMENT RINSATE 2-3; only PCB analyses were requested for EQUIPMENT RINSATE 2-5; only explosive analyses were requested for EQUIPMENT RINSATE 2-7; only propellant (nitroguanidine and nitrocellulose) analyses ere requested for EQUIPMENT RINSATE 2-9; only metals and mercury analyses were requested for EQUIPMENT RINSATE 2-10; and only hexavalent chromium analysis was requested for EQUIPMENT RINSATE 2-11. According to a document provided by J. Jent of Prudent, the laboratory reported all fractions as EQUIP RINSATE 2-1-11. No written documentation for the sample ID changes was supplied by the laboratory. No documentation indicating the laboratory contacted Prudent regarding this matter was provided.
J1728	No trip blanks accompanied the aqueous samples collected for VOC analyses. Trip blank are not required for soil samples. The detects for methylene chloride, a common laboratory contaminant, were rejected, "R," and coded with an "*II" qualification code.
J1585-1	Samples LL4SS-414M-0001-SO and LL4SS-414M-0002-SO (MS/MSD) were listed separately on the chain-of-custody for PAH analysis; PAH results were reported as LL4SS-414M-0001/0002SO. Samples LL4SS-416M-0001-SO and LL4SS-416M-0002-SO (MS/MSD) were listed separately on the chain-of-custody for the full suite of analyses; results were reported as LL4SS-416M-0001/0002SO. Samples LL4SS-416V-0001-SO and LL4SS-416V-0002-SO (MS/MSD) were listed separately on the chain-of-custody for VOC analyses; results were reported as LL4SS-416V-0001/0002SO. Samples L12SS-304M-0001-SO and L12SS-304M-0002-SO (MS/MSD) were listed separately on the chain-of-custody for PAH analysis; results were reported as L12SS-304M-0001/0002SO. No written documentation for the sample ID change was supplied by the laboratory. No documentation indicating the laboratory contacted Prudent regarding this matter was provided.

SDG	Issue
J1585-2	Arsenic was reported for L12SS-303M-0001-SO and L12SS-304M-0001/0002SO but was not requested on the chain-of-custody. According to a document provided by J. Jent of Prudent, the analysis was not requested, but was approved by J. Jent after the fact. No documentation indicating the laboratory contacted Prudent regarding this matter was provided.
J1599	Sample LL4SB-413M-0103-SO was not listed on the chain-of-custody. The sample was analyzed for PAHs. According to a document provided by J. Jent of Prudent, the laboratory logged the sample for the sample analyses as LL4SB-413M-0101-SO and LL4SB-413M-0102-SO. No written documentation for the choice of sample analyses was supplied by the laboratory. No documentation indicating the laboratory contacted Prudent regarding this matter was provided.
J1650	PAHs were requested for samples LL2SB-514M-0101-SO, LL2SB-514M-0102-SO, LL2SB-514M-0103-SO, LL2SB-515M-0101-SO, LL2SB-515M-0102-SO, LL2SB-515M-0103-SO; however PCBs were reported. According to a document provided by J. Jent of Prudent, the analysis was not requested, but was approved by J. Jent after the fact. No documentation indicating the laboratory contacted Prudent regarding this matter was provided.
J1653	Only SVOC analyses were requested for EQUIP RINSATE 1-1 and EQUIP RINSATE 1-2; only pesticide analyses were requested for EQUIP RINSATE 1-3 and EQUIP RINSATE 1-4; only PCB analyses were requested for EQUIP RINSATE 1-5 and 1-6; only explosive analyses were requested for EQUIP RINSATE 1-7 and 1-8; only propellant (nitroguanidine and nitrocellulose) analyses were requested for EQUIP RINSATE 2-9; only metals (no mercury) analyses was requested for EQUIP RINSATE 1-10; and only hexavalent chromium analysis was requested for EQUIP RINSATE 1-11. According to a document provided by J. Jent of Prudent, the laboratory reported all fractions as EQUIP RINSATE 1. No written documentation for the sample ID change was supplied by the laboratory. No documentation indicating the laboratory contacted Prudent regarding this matter was provided.
J1653	EQUIP RINSATE 1 was analyzed for mercury. According to a document provided by J. Jent of Prudent, mercury analysis should have been requested for this sample and the laboratory caught this oversight. No documentation regarding the analysis change was provided by the laboratory. No documentation indicating the laboratory contacted Prudent regarding this matter was provided.
J1653	The date and time of sampling for the EQUIP RINSATE samples were not listed on the chain-of-custody. Date and time were logged in as per sample labels. No documentation indicating the laboratory contacted Prudent regarding this matter was provided.

3.2 SAMPLE ANALYSIS

TA-North Canton, the primary laboratory, analyzed a total of eighty-six MI and seven discrete primary soil samples, five MI and five discrete field duplicate samples, and two equipment rinsate samples by USEPA SW-846 Methods 6020 for various metals, USEPA SW-846 Method

7470A/7471A for mercury, USEPA SW-846 Method 8270C for SVOCs and PAHs, USEPA SW-846 Method 8081 for pesticides, USEPA SW-846 Method 8082 for PCBs, USEPA SW-846 Method 8260B for VOCs, and USEPA Method 7196A for hexavalent chromium. TA-North Canton subcontracted USEPA SW-846 Method 8330B for explosive compounds, USEPA SW-846 8330M for nitroguanidine, and TestAmerica Laboratory Standard Operating Procedure WS-WC-005 for nitrocellulose (equivalent to USEPA SW-846 9056M).

3.3 DATA COMPLETENESS

No documentation was provided by the laboratory for the analysis and ID changes detailed in Section 3.1. Data completeness for the method-specific deliverables was found to be generally acceptable as no deliverables were missing.

3.4 METHOD REQUIRMENTS

All method preservation requirements were met.

3.5 HOLDING TIME REQUIREMENTS

The extraction and analytical holding times for the analyses reviewed in this document are as follows:

Table 4. Extraction and analysis holding times

Method	Analysis	Holding Time			
		Extraction		Analysis	
		Water	Soil	Water	Soil
6020	Metals	N/A	N/A	180 days	180 days
7470A/7471A	Mercury	N/A	N/A	28 days	28 days
8260B	VOCs	N/A	N/A	14 days	14 days
8270C	SVOCs	7 days	14 days	40 days	40 days
8081	Pesticides	7 days	14 days	40 days	40 days
8082	PCBs	7 days	14 days	40 days	40 days
8330B	Explosives	7 days	14 days	40 days	40 days
8330	Nitroguanidine	7 days	14 days	40 days	40 days
9056 M	Nitrocellulose	N/A	N/A	28 days	28 days
7196A	Hexavalent chromium	24 hours	28 days	24 hours	24 hours

Hexavalent chromium in samples LL3SD-416M-0001-SD and LL2SS-516M-0001-SO were analyzed beyond the 24-hour holding time; therefore, these results were qualified as estimated, "J-," and coded with an "H" qualification code.

3.6 DETECTION LIMIT REQUIREMENTS

The laboratory reported the detection limit (DL), limit of detection (LOD), LOQ, and reporting limit (RL) on the hardcopy sample result summaries. Due to a limitation of the Automated Data Review EDD format, only two of these quantities could be reported in the EDD. Per project criteria, the RL was set at the LOQ; therefore, the laboratory reported the RL/LOQ in the EDD

reporting limit field. As the DL was approximately three times lower than the LOD, the laboratory reported the DL in the remaining available EDD field.

As the LOD is defined as the concentration at which there is a 1% probability of a false negative, the LODs for nondetected validated sample results were compared against the criteria listed in Table 3-3 to 3.9 of the FWQAPP and Appendix A of the QAPP Addendum. The following LODs exceeded these criteria; however, unless noted otherwise, the DLs met the project criterion, indicating the laboratory was capable of detecting the analytes at concentrations equivalent to the project criterion.

- Pesticides – 51 LODs and 43 DLs
- PCBs - 14 LODs and 14 DLs
- VOCs - 74 LODs and 36 DLs
- SVOCs - 59 LODs and 53 DLs
- Metals – 1 LOD

There were no project criteria for cis-1,2-dichloroethene or trans-1,2-dichloroethene.

Results with only LODs exceeding project criteria are usable, as the laboratory DLs were low enough to allow detection at concentrations below the project criteria. As noted in the Executive Summary, results with DLs that exceed project criteria may be usable for their intended purposes; it is dependent on the final data user to make this determination on a case-by-case basis.

4. DATA QUALITY EVALUATION

This section summarizes the data quality of validated samples for each analytical method evaluated.

4.1 EXPLOSIVES

Sixteen primary MI soil samples, five field duplicates, and two equipment rinsate samples were analyzed by TA-West Sacramento for explosives by USEPA SW-846 Method 8330B. Thirteen primary MI soil samples, five field duplicates, and two equipment rinsate samples were analyzed for nitroguanidine by USEPA SW-846 Method 8330. Three samples were validated at Level IV.

- MDL studies were not evaluated as part of this project.
- Calibration
    - Initial calibration average percent relative standard deviations (%RSDs) were within the control limits listed in DoD QSM Table F-2 of ≤20%, or the linear regression r^2 values were ≥0.990.
    - The second source initial calibration verification standard (ICV) for both the primary and confirmation calibrations were within the control limits listed in DoD QSM Table F-2 of 85-115%.
    - The %D for RDX on the confirmation column was -15.2%; therefore, the unconfirmed result for RDX in LL3SD-416M-0001-SD was qualified as estimated, "UJ." All remaining continuing calibration verification (CCV) standard %Ds were within the control limits listed in DoD QSM Table F-2 of ≤15%.
    - MRL standard recoveries were within the reasonable control limit of ±30%.
- Blanks: The method blanks associated with the validated samples had no target compound detects above the control limits listed in DoD QSM Table F-2 of one-half the LOQ or one-tenth the amount detected in a sample.
- Blank Spikes and Laboratory Control Samples: Recoveries were within the control limits listed in DoD QSM Table G-13 for the 13 listed compounds and within the reasonable laboratory control limits for nitroglycerin, PETN, and tetryl.
- Surrogate Recovery: As no surrogate control limit was listed in the DoD QSM, surrogate recoveries were assessed against the reasonable laboratory-established control limits of 78-108%.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on validated LL2SS-516M-0001-SO. The recoveries were within the control limits listed in DoD QSM Table G-13 for the 13 listed compounds and within the reasonable laboratory control

limits for nitroglycerin, PETN, and tetryl. The RPDs were within the control limits listed in DoD QSM Table F-2 of ≤30%.

- Compound Identification: Compound identification was verified for those samples validated at a Level IV. Review of the sample chromatogram, retention times, and spectra indicated no problems with target compound identification. The intercolumn %D exceeded 100% for tetryl, nitrobenzene, and 1,3,5-trinitrobenzene in LL3SD-416M-0001-SD at 127%, 127%, and 106%, respectively; therefore, these results were qualified as tentatively identified, "N." The qualified results were coded with an "*III" qualification code.

  As per DoD QSM Table F-2, all results were reported from the primary column. As the primary chromatography was generally better than the confirmation column, it was the reviewer's professional opinion that the results should stand as reported by the laboratory.

- Compound Quantification and Reported Detection Limits: Compound quantification was verified for those samples validated at a Level IV. The LOQs were supported by the low point of the initial calibration and the laboratory DLs. Any result reported between the DL and the LOQ was qualified as estimated, "J."

  Target compound confirmation was performed for detects in the validated samples. The intercolumn RPDs exceeded the criteria listed in DoD QSM Table F-2 of ≤40% for tetryl, nitrobenzene, and 1,3,5-trinitrobenzene in LL3SD-416M-0001-SD at 127%, 127%, and 106%, respectively. These results were qualified as estimated, "J," and coded with a "*III" qualification code.

- System Performance: Review of the raw data indicated no problems with system performance.

- Manual Integrations: Some manual integrations were performed for initial calibration standards, CCVs and sample data reviewed at Level IV. Most manual integrations were performed to standardize the baseline.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

  - Field Blanks and Equipment Rinsates: Two equipment rinsate samples were collected and analyzed for explosives. There were no detects above the DL in either sample.

  - Field Duplicates: Five field duplicates were collected and analyzed for explosive compounds. All RPDs were within the control limits in FWQAPP Table 3-1 of ≤50%. The RPD criterion was only applied when both sample results were ≥5× the LOQ.

In cases where results were <5× the LOQ, the reasonable control limit of ± the LOQ was applied. See Appendix C for comparisons of all samples and analytes.

4.2 PROPELLANTS

Thirteen primary MI soil samples, five field duplicates, and two equipment rinsate samples were subcontracted to TA-West Sacramento and analyzed for nitroguanidine by USEPA SW-846 Method 8330 and nitrocellulose as nitrate/nitrite by laboratory standard operating procedure WS-WC-0050 (equivalent to USEPA SW-846 Method 9056M). Three samples were validated at Level IV.

- MDL studies were not evaluated as part of this project.
- Calibration
    - Nitroguanidine initial calibration average percent relative standard deviations (%RSDs) were within the control limits listed in DoD QSM Table F-2 of ≤20%, or the linear regression r^2 values were ≥0.990. Nitrocellulose linear regression r values were within the control limit listed in the DoD QSM Table F-11 of ≥0.995.
    - The nitroguanidine second source ICV for both the primary and confirmation calibrations were within the control limits listed in DoD QSM Table F-2 of 85-115%. The nitrocellulose ICV recoveries were within the control limits listed in DoD QSM Table F-11 of 90-110%.
    - The nitroguanidine CCV standard %Ds were within the control limits listed in DoD QSM Table F-2 of ≤15%. The nitrocellulose CCV recoveries were within the control limits listed in DoD QSM Table F-11 of 90-110%.
    - MRL standard recoveries were within the reasonable control limit of ±30%.
- Blanks: The method blanks associated with the validated samples had no target compound detects above the control limits listed in DoD QSM Tables F-2 and F-11 of one-half the LOQ limit or one-tenth the amount detected in a sample.
- Blank Spikes and Laboratory Control Samples: No nitroguanidine or nitrocellulose LCS control limits are listed in the DoD QSM. Nitroguanidine was recovered within the reasonable laboratory-established control limits of 72-121%. The nitrocellulose recoveries were within the laboratory-established control limits of 34-115%.
- Surrogate Recovery: A surrogate was not used for the analyses of nitroguanidine or nitrocellulose.
- Matrix Spike/Matrix Spike Duplicate: No nitroguanidine or nitrocellulose MS/MSD control limits are listed in the DoD QSM. Nitroguanidine MS/MSD analyses were performed on validated sample LL2SS-516M-0001-SO. The nitroguanidine recoveries and RPDs were within the reasonable laboratory-established control limits of 72-121%. Nitrocellulose

MS/MSD analyses were performed on validated sample LL3SD-416M-0101-SD. Both recoveries were below the laboratory-established control limits of 34-115%, at 20% each; therefore, nitrocellulose detected in the samples in SDG J1728 were qualified as estimated, "J-". The qualified results were coded with a "Q" qualification code.

The RPDs were within the control limits listed in DoD QSM Tables F-2 and F-11 of ≤30% and ≤20%, for nitroguanidine and nitrocellulose, respectively.

- Compound Identification: Compound identification was verified for those samples validated at a Level IV. Review of the sample chromatogram, retention times, and spectra indicated no problems with target compound identification. As there were no nitroguanidine detects in the validated samples, compound identification was verified for the LCS and MS/MSD samples.

  As per DoD QSM Table F-2, all nitroguanidine results were reported from the primary column. As the primary chromatography was generally better than the confirmation column, it was the reviewer's professional opinion that the results should stand as reported by the laboratory.

- Compound Quantification and Reported Detection Limits: Compound quantification was verified for those samples validated at a Level IV. The LOQs were supported by the low point of the initial calibration and the laboratory DLs. Any result reported between the DL and the LOQ was qualified as estimated, "J."

- System Performance: Review of the raw data indicated no problems with system performance.

- Manual Integrations: No manual integrations were noted in the nitroguanidine analyses.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

  - Field Blanks and Equipment Rinsates: Two equipment rinsate samples were collected and analyzed for propellants. There were no detects above the DL in the equipment rinsate samples.

  - Field Duplicates: Five field duplicate pairs were collected and analyzed for nitroguanidine and nitrocellulose. All RPDs were within the control limits in FWQAPP Table 3-1 of ≤50%. The RPD criterion was only applied when both sample results were ≥5× the LOQ. In cases where results were <5× the LOQ, the reasonable control limit of ± the LOQ was applied. See Appendix C for comparisons of all samples and analytes.

4.3 POLYCHLORINATED BIPHENYLS (PCBS)

Thirty primary MI soil samples, five field duplicates, and two equipment rinsate samples were analyzed by TA-North Canton for PCBs by USEPA SW-846 Method 8082. Four samples were validated at Level IV.

- MDL studies were not evaluated as part of this project.
- Calibration: Calibration criteria were met.
    - Initial calibration average %RSDs were within the control limits listed in the DoD QSM Table F-2 of ≤20%, or the coefficient of determination r^2 values were ≥0.990.
    - The second source ICV was within the control limits listed in the DoD QSM Table F-2 of ±20% for all applicable Aroclors.
    - The CCV standard %Ds were within the control limits listed in the DoD QSM Table F-2 of ±20%.
    - Although not required by the DoD QSM, a standard of 3× the DL is required by the FWQAPP. As no MRLs were analyzed, the results were qualified as estimated, "UJ," for nondetects and "J," for detects reported at concentrations less than 10× the LOQ. At concentrations greater than 10× the nominal LOQ, it was the reviewer's professional opinion the CCVs were more indicative of the instrument performance relative to the sample. All qualified results were coded with a "C" qualification code.
- Blanks: The method blank associated with those samples validated at Level IV had no target compound detects above the control limits listed in the DoD QSM Table F-2, of one-half the LOQ for target compounds or one-tenth the amount detected in a sample.
- Blank Spikes and Laboratory Control Samples: LCS recoveries were within the control limits listed in DoD QSM Table G-17 of 40-140% and 60-130% for Aroclors 1016 and 1260, respectively.
- Surrogate Recovery: DCB was recovered above the control on both analytical columns in three of the four samples validated at Level IV. Detects in the affected samples were qualified as estimated, "J," and coded with an "S" qualification code.

Results qualified for surrogate recovery outliers			
Sample	**Surrogate**	**% Recoveries**	**Qualified Detects**
LL2SS-519M-0001-SO	DCB	156% / 135%	Aroclor 1254
LL2SS-516M-0001-SO	DCB	152% / 200%	Aroclor 1254
LL3SD-416M-0001-SD	DCB	164% / 322%	Aroclor 1254

The MS and MSD analyses of sample LL2SS-516M-0001-SO indicated a matrix effect on the surrogate. Remaining recoveries were within the DoD QSM control limits listed in Table G-3 of 60-125% for DCB, or the laboratory control limits of for TCX.

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed for sample LL2SS-516M-0001-SO. Recoveries in the MS and MSD were above the control limits listed in DoD QSM Table G-17 of 60-130% for Aroclor 1260, at 138% and 143%, respectively. The detect for Aroclor 1254 in the parent sample was qualified as estimated, "J," and coded with a "Q" qualification code. The remaining recoveries were within the control limits listed in DoD QSM Table G-17 of 40-140% for Aroclor 1016. RPDs for both Aroclors were within the control limit listed in DoD QSM Table F-2 of ≤30%.

- Compound Identification: Compound identification was verified for the samples validated at Level IV. Review of the sample chromatograms, standards, and retention times indicated no problems with target compound identification.

- Compound Quantification and Reported Detection Limits: Compound quantification was verified for the samples validated at a Level IV. The LOQs were supported by the low point of the initial calibration and the laboratory DLs. Any result reported between the DL and the LOQ was qualified as estimated, "J."

  The samples were analyzed on two analytical columns for target compound confirmation. The intercolumn RPDs were within the control limit listed in DoD QSM Table F-2 of ≤40%.

- System Performance: Review of the raw data indicated no problems with system performance.

- Manual integrations: Some routine manual integrations were performed for the samples and calibration and QC data associated with the sample data, primarily to correct baseline integration of multiple Aroclor peaks. All manual integrations reviewed at Level IV were deemed appropriate by the reviewer.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

  - Field Blanks and Equipment Rinsates: The samples validated for this SDG had no associated field blank. Two equipment rinsate samples were collected in association with this field effort. The equipment rinsate analyzed for PCBs had no detects above the DL.

  - Field Duplicates: Five field duplicate samples were collected and analyzed for PCBs. Except as noted below, RPDs were within the control limits in FWQAPP Table 3-1 of ≤50%. The RPD criterion was only applied when both sample results were ≥5× the LOQ. In cases where results were <5× the LOQ, the reasonable control limit of ± the LOQ was applied. See Appendix C for comparisons of all samples and analytes.

Table 5. PCBs field duplicate outliers

Analyte	Sample	Result (µg/kg)	Duplicate	Result (µg/kg)	RPD	W/In LOQ?
Aroclor 1254	LL2SS-516M-0001/0002-SO	670	LL2SS-517M-0001-SO	250	N/A	No

4.4 PESTICIDES

Thirteen primary MI soil samples, five field duplicates, and two equipment rinsate samples collected were analyzed by TA-North Canton for pesticides by USEPA SW-846 Method 8081. Three samples were validated at Level IV.

- MDL studies were not evaluated as part of this project.
- Calibration: Most calibration criteria were met.
    - Initial calibration average %RSDs were within the control limits listed in DoD QSM Table F-2 of ≤20%, or the coefficient of determination r^2 values were ≥0.990.
    - The second source ICV recoveries were within the control limit listed in DoD QSM Table F-2 of ±20%.
    - The DDT/Endrin breakdown standards were within the control limits listed in DoD QSM Table F-2 of ≤15%.
    - Except as noted below, the CCV standard %Ds affecting sample data were within the control limits listed in DoD QSM Table F-2 of ±20%. Results noted in the table below, all nondetects, were qualified as estimated, "UJ," and were coded with a "C" qualification code.

Samples qualified for CCV %D outliers			
Analyte	**Primary Column %D**	**Confirmation Column %D**	**Affected Samples**
heptachlor	-22.3%	-24.7%	
4,4'-DDT	-29.5%	-31.4%	
endrin aldehyde	-25.8%	-28.0%	CHASS-001M-0001-SO
methoxychlor	-26.9%	-29.0%	CHASS-001M-0001-SO
endrin ketone	-23.9%	-24.3%	
toxaphene	-21.3% (avg.)	-25.0% (avg.)	

    - Although not required by the DoD QSM, a standard of 3× the DL is required by the FWQAPP. As no MRLs were analyzed, the results were qualified as estimated, "UJ," for nondetects and "J," for detects reported at concentrations less than 10× the LOQ. At concentrations greater than 10× the LOQ it was the reviewer's professional opinion the CCVs were more indicative of the instrument performance relative to the sample. All qualified results were coded with a "C" qualification code.

- Blanks: The method blanks associated with the validated samples had no target compound detects above the control limits listed in DoD QSM Table F-2, of one-half the LOQ or one-tenth the amount detected in a site sample.

- Blank Spikes and Laboratory Control Samples: Recoveries were within the control limits listed in DoD QSM Table G-15.

- Surrogate Recovery: Recoveries affecting sample results were within the control limits listed in DoD QSM Table G-3.

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on sample LL2SS-516M-0001-SO. As the parent and MS/MSD analyses were performed at 20× dilutions, recoveries and RPDs were not assessed as the spiked concentrations were considered diluted out.

- Compound Identification: Compound identification was verified for the samples validated at Level IV. Review of the sample chromatograms and retention times indicated no problems with target compound identification.

  The intercolumn %RPD comparison exceeded 100% for the result listed in the table below. The result was qualified as tentatively identified, "N," and was coded with a *III qualification code.

Results qualified as tentatively identified		
Sample	**Analyte**	**Intercolumn %D**
LL2SS-516M-0001-SD	gamma-chlordane	115%

- Compound Quantification and Reported Detection Limits: Compound quantification was verified for the samples validated at a Level IV. The LOQs were supported by the low point of the initial calibration and the laboratory DLs. Any result reported between the DL and the LOQ was qualified as estimated, "J."

  The case narratives for these SDG noted that the following samples validated at Level IV required the following dilutions: CHASS-001M-0001-SO (2×), SS2SS-516M-0001-SO (50×), and SS3SD-416M-0001-SD (20×). The reasons for the dilutions were not provided, either in the narrative or the preparation data; however, possible matrix interference from the presence of Aroclor 1254 may account for some dilutions.

  The samples were analyzed on two analytical columns for target compound confirmation. The intercolumn RPDs were above the control limit listed in DoD QSM Table F-2 of ≤40% for results noted in the table below. The results were qualified as estimated, "J," and coded with a *III qualification code.

Results qualified for intercolumn RPDs >40%		
Sample	**Analyte**	**Intercolumn RPD**
LL3SD-416M-0001-SD	beta-BHC	76%

Results qualified for intercolumn RPDs >40%		
Sample	**Analyte**	**Intercolumn RPD**
LL2SS-516M-0001-SO	gamma-chlordane	115%

- System Performance: Review of the raw data indicated no problems with system performance.

- Manual integrations: Manual integrations were performed for several standards and QC associated with the samples validated at Level IV, primarily for baseline correction of toxaphene peaks and several individual pesticide peaks. The manual integrations reviewed at Level IV were deemed appropriate by the reviewer.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

    - Field Blanks and Equipment Rinsates: Two equipment rinsate samples were collected in association with this field effort. The equipment rinsate analyzed for pesticides associated with the samples validated at Level IV had no detects above the DL.

    - Field Duplicate Samples: Five were collected and analyzed for pesticides. All RPDs were within the control limits in FWQAPP Table 3-1 of ≤50%. The RPD criterion was only applied when both sample results were ≥5× the LOQ. In cases where results were <5× the LOQ, the reasonable control limit of ± the LOQ was applied. See Appendix C for comparisons of all samples and analytes.

4.5 SEMIVOLATILE ORGANIC COMPOUNDS (SVOCS) AND POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)

Thirteen primary MI soil samples, five field duplicates, and two equipment rinsates were analyzed by TA-North Canton for SVOCs by USEPA Method 8270C. Fifty primary MI soil samples were analyzed by TA-North Canton for PAHs by USEPA Method 8270C. Eight samples were validated at Level IV.

- MDL studies were not evaluated as part of this project.

- GC/MS Tuning: The DFTPP tunes met the method abundance criteria. The samples were analyzed within 12 hours of the DFTPP injection time.

- Calibration: Calibration criteria were met, with exceptions affecting sample results noted in the tables below.

    - Initial calibration average RRFs and ICV and CCV RRFs were within method control limits of ≥0.050 for system performance check compounds (SPCCs). All initial calibration %RSDs were within the method control limits listed in the DoD QSM

Table F-4 of ≤30% for calibration check compounds (CCCs) and ≤15% for remaining compounds, or linear regression r values ≥0.995.

- With one exception listed in the table below, all second source ICV standard recoveries affecting sample data were within the control limits listed in the DoD QSM Table F-4, of ±20%. The retained sample results associated with the outlier were qualified as estimated, "UJ," and coded with a "C" qualification code.

Samples qualified for ICV recovery outliers			
Analyte	**Recovery**	**Date / Instrument**	**Affected Samples**
2,4-dinitrophenol	73.2%	07/28/11 / HP9	All samples validated at Level IV

- Continuing calibration %Ds affecting sample data were within the method control limits of ≤20% listed in DoD QSM Table F-4.

- Although not required by the DoD QSM, a standard of 3× the DL is required by the FWQAPP. As no MRLs were analyzed, the retained results were qualified as estimated, "UJ," for nondetects and "J," for detects reported at concentrations less than 10× the LOQ. At concentrations greater than 10× the LOQ it was the reviewer's professional opinion the CCVs were more indicative of the instrument performance relative to the sample. All qualified results were coded with a "C" qualification code.

- Blanks: With one exception, the method blanks associated with those samples validated at Level IV had no target compound detects above the control limits listed in DoD QSM Table F-4 of one-half the LOQ for target compounds or one-tenth the amount detected in any sample, and no common laboratory contaminants detected above the LOQ. Bis(2-ethylhexyl) phthalate was detected below the LOQ in prep batches 200-8437 and 200-8076 at 28.3 µg/Kg and 23.2 µg/Kg, respectively. Bis(2-ethylhexyl) phthalate detected in associated sample CHASS-001M-0001-SO was qualified as nondetected, "U," at the level of contamination, and coded with a "B" qualification code.

- Blank Spikes and Laboratory Control Samples: With exceptions affecting sample data listed in the table below, LCS recoveries were within the control limits listed in DoD Tables G-2 (poor performers) and G-7, or within the laboratory-established control limits when no QSM limit was prescribed. The nondetected results listed in the table below were qualified as estimated, "UJ," and were coded with an "L" qualification code.

Samples qualified for LCS recovery outliers				
QC Batch	**Analyte**	**Recovery**	**Recovery Limits**	**Affected samples**
240-8237	hexachlorobutadiene	37%	40-115%	LL3SD-416M-0001-SD
	1,2-dichlorobenzene	42%	45-110%	
	1,3-dichlorobenzene	38%	40-100%	
	1,2,4-trichlorobenzene	38%	45-110%	
	2,4,5-trichlorophenol	49%	50-110%	
	2,4,6-trichlorophenol	36%	45-110%	

- Surrogate Recovery: Surrogate recoveries were within the control limits listed in the DoD QSM Table G-3.

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on samples LL2SS-516M-0001-SO for full list semivolatiles and on LL3SS-419M-0001-SO for PAHs. Recoveries were within the control limits Listed in DoD QSM Tables G-2 (poor performers) and G-7 or with the laboratory-established control limits if no QSM limits were prescribed, with exceptions affecting parent sample data listed in the table below. Recoveries were not evaluated if the native sample concentration exceeded four times the spike amount.

  Nondetected results noted in the table below associated with MS/MSD recoveries less than 10% were rejected, "R." Nondetected parent sample results with recoveries ≥10% were qualified as estimated, "UJ." The remaining parent results noted in the table below were qualified as estimated, "J-" for detects. All qualified results were coded with a "Q" qualification code.

Samples qualified for MS/MSD recovery outliers			
Parent Sample	**Analyte**	**MS / MSD %R**	**Recovery Limits**
LL2SS-516M-0001-SO	**benzoic acid**	**0% / 0%**	10-110%
	4,6-dinitro-2-methylphenol	**0% / 0%**	30-135%
	2,4-dinitrophenol	**0% / 0%**	15-130%
	hexachloroethane	23% / 25%	35-110%
	pentachlorophenol	**0% / 0%**	25-120%
LL3SS-419M-0001-SO LL3SS-419M-0001-SO	anthracene	31% / 22%	55-105%
	benzo(a)anthracene	15% / 2%	50-110%
	benzo(a)pyrene	20% / 9%	50-110%
	benzo(b)fluoranthene	21% / 9%	45-115%
	benzo(k)fluoranthene	39% / 29%	45-125%
	chrysene	17% / 5%	55-110%
	fluoranthene	**-60% / -80%**	55-115%
	pyrene	**-32% / -53%**	45-125%
	phenanthrene	**-47% / -66%**	50-110%

Bold analytes and recoveries indicate rejected results.

The RPDs were within the control limit of ≤30% listed in DoD QSM Table F-4, with exceptions affecting parent sample data listed in the table below. Results listed in the table below were qualified as estimated, "J," for detects and, "UJ," for nondetects.

Samples qualified for MS/MSD RPD outliers		
Parent Sample	**Analyte**	**RPD**
LL2SS-516M-0001-SO	1,3-dichlorobenzene	31%
	benzo(a)pyrene	58%
	2,4,6-trichlorophenol	200%

- Internal Standards Performance: The internal standard area counts and retention times were within the DoD QSM Table F-4 control limits established by the midpoint initial

calibration standard: ±30 seconds for retention times and -50% / +100% for internal standard areas.

- Compound Identification: Compound identification was verified for the samples validated at Level IV. Review of the sample chromatograms, retention times, and spectra indicated no problems with target compound identification.

- Compound Quantification and Reported Detection Limits: Compound quantification was verified for the samples validated at Level IV. All of the samples had a two-milliliter final extract volume, resulting in an effective 2× dilution. Three samples validated at Level IV were analyzed at additional dilutions for target compound concentrations. The LOQs were supported by the low point of the initial calibration and the laboratory DLs. Any result reported between the DL and the LOQ was qualified as estimated, "J," by the laboratory.

  Nitrobenzene, 2,4-dinitrotoluene, and 2,6-dinitrotoluene were reported by both 8330B and 8270C. As the LOQs were lower for the 8330B results, the 8270C results were rejected, "R," in favor of the 8330B results for the samples validated at Level IV. The rejected results were coded with a "D" qualification code.

- System Performance: Review of the raw data indicated no problems with system performance.

- Manual Integrations: Some routine manual integrations were performed for the samples and calibration and QC data associated with the sample data, including separation of benzo(b)fluoranthene and benzo(k)fluoranthene, split peaks, missed peaks, and baseline correction. All manual integrations reviewed at Level IV were deemed appropriate by the reviewer.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

  - Field Blanks and Equipment Rinsates: The samples validated for this SDG had no associated field blank. Two equipment rinsate samples were collected in association with this field effort. The equipment rinsate associated with the samples validated at Level IV in these SDGs had no reportable target compounds detected above the DL.

  - Field Duplicate Samples: Five were collected and analyzed for semivolatiles. Except as noted below, RPDs were within the control limits in FWQAPP Table 3-1 of ≤50%. The RPD criterion was only applied when both sample results were ≥5× the LOQ. In cases where results were <5× the LOQ, the reasonable control limit of ± the LOQ was applied. Based on professional judgment, when one result was

reported as nondetected, a control limit of ±10× was applied. See Appendix C for a complete comparison of all primary and field duplicate results.

Table 6. SVOC field duplicate outliers

Analyte	Sample	Result (µg/kg)	Duplicate	Result (µg/kg)	RPD	W/In LOQ?
Acenaphthalene	LL3SD-416M-0001-SO	1600	LL3SD-417M-0001-SO	550	98%	N/A
Anthracene		3100		1000	102%	N/A
Benzo(a)anthracene		8600		2900	99%	N/A
Benzo(a)pyrene		6800		2500	92%	N/A
Benzo(b)fluoranthene		9100		3100	98%	N/A
Benzo(g,h,i)perylene		4200		1500	95%	N/A
Benzo(k)fluoranthene		5000		1900	90%	N/A
Chrysene		8200		2500	107%	N/A
Dibenzo(a,h)anthracene		1200		590	68%	N/A
Fluoranthene		19000		5500	110%	N/A
Fluorene		1000		320	103%	N/A
Indeno(1,2,3-cd)pyrene		4100		1500	93%	N/A
Phenanthrene		9200		2800	107%	N/A
Pyrene		13000		4000	106%	N/A
Acenaphthene		360		130	N/A	No
Fluoranthene	LL4SS-416M-0001-SO	250	LL4SS-417M-0001-SO	140	56%	N/A
Anthracene		46		33	N/A	No
Naphthalene		31		56	N/A	No
Acenaphthylene	L12SS-300M-0001-SO	280	L12SS-301M-0001-SO	600	N/A	No
2-Methylnaphthalene	LL2SS-516M-0001-SO	45	LL2SS-517M-0001-SO	74	N/A	No
Acenaphthene		110		150	N/A	No
Bis(2-ethylhexyl)phthalate		110		380	N/A	No

4.6 VOLATILE ORGANIC COMPOUNDS (VOCS)

Eleven primary discrete soil samples, five field duplicates and two equipment rinsate samples were analyzed by TA-North Canton for volatile compounds by USEPA Method 8260B.

- MDL studies were not evaluated as part of this project.
- GC/MS Tuning: The BFB tunes met the method abundance criteria. The samples were analyzed within 12 hours of the BFB injection time.
- Calibration: Calibration criteria were met.
    - Initial calibration average RRFs and ICV and CCV RRFs were within the control limits listed in DoD QSM Table F-4 of ≥0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, and ≥0.10 for chloromethane and bromoform, and 1,1-dichloroethane. All initial calibration %RSDs were within the method control limits

listed in the DoD QSM Table F-4 of ≤30% for CCCs and ≤15% for remaining compounds, or linear regression r values ≥0.995.

- o All second source initial calibration verification standard recoveries affecting sample data validated at Level IV were within the control limits listed in DoD QSM Table F-4 of 80-120%.

- o Continuing calibration %Ds affecting sample data validated at Level IV were within the method control limits of ≤20% listed in DoD QSM Table F-4.

- o Although not required by the DoD QSM, a standard of 3× the DL is required by the FWQAPP. As no MRLs were analyzed, the results were qualified as estimated, "UJ," for nondetects and "J," for detects reported at concentrations less than 10× the LOQ. At concentrations greater than 10× the LOQ it was the reviewer's professional opinion the CCVs were more indicative of the instrument performance relative to the sample. All qualified results were coded with a "C" qualification code.

- Blanks: Methylene chloride was detected below the LOQ at 90.5 µg/Kg; however, methylene chloride was not detected in the associated validated samples. The method blank associated with the samples validated at Level IV had no other target compound detects above the control limits listed in DoD QSM Table F-4 of one-half the LOQ or one-tenth the amount of any sample detect, and no common laboratory contaminants detected above the LOQ.

- Blank Spikes and Laboratory Control Samples: The LCS recoveries were within the control limits listed in DoD QSM Table G-5.

- Surrogate Recovery: Except as noted below, the surrogate recoveries were within the control limits listed in DoD QSM Table G-6. Results listed in the table below were qualified as estimated, "J-" for detects and "UJ" for nondetects. All qualified results were coded with an "S" qualification code.

Samples qualified for surrogate recovery outliers				
Sample	**Surrogate**	**%R**	**Limits**	**Qualified analytes**
LL3SD-416V-0001-SD	bromofluorobenzene toluene-d8	77% 74%	85-120% 85-115%	All
LL2SS-516V-0001-SO	bromofluorobenzene toluene-d8	77% 76%	85-120% 85-115%	All

- Matrix Spike/Matrix Spike Duplicate: An MS only analysis was performed on sample LL2SS-516V-0001-SO. Except as noted below, recoveries were within the control limits listed in DoD QSM Table G-5. Parent sample results for the outliers, all nondetects, were qualified as estimated, "UJ," and the qualified results were coded with a "Q" qualification code.

Samples qualified for MS/MSD recovery outliers			
Parent Sample	**Analyte**	**%R**	**Recovery Limits**
LL2SS-516M-0001-SO	cis-1,3-dichloropropene	66%	70-125%
	bromodichloromethane	68%	70-130%
	m, p-xylenes (total qualified)	78%	80-125%
	styrene	71%	70-125%
	trans-1,3-dichloropropene	61%	65-125%
	vinyl chloride	58%	60-125%

- Internal Standards Performance: The internal standard area counts and retention times were within DoD QSM Table F-4 control limits established by the midpoint initial calibration standard: ±30 seconds for retention times and -50% / +100% for internal standard areas.

- Compound Identification: Compound identification was verified for the samples validated at Level IV. Review of the sample chromatograms, retention times, and spectra indicated no problems with target compound identification.

- Compound Quantification and Reported Detection Limits: Compound quantification was verified for the samples validated at Level IV. The LOQs were supported by the low point of the initial calibration and the laboratory DLs. Any result reported between the DL and the LOQ was qualified as estimated, "J," by the laboratory.

- System Performance: Review of the raw data indicated no problems with system performance.

- Manual Integrations: Manual integrations were not performed for the samples validated at Level IV, or for associated calibration and QC samples.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

    - Trip Blanks: No trip blanks were associated with the validated samples.

    - Field Blanks and Equipment Rinsates: The samples validated for this SDG had no associated field blank. Two equipment rinsate samples were collected in association with the samples in this field effort; however, neither was analyzed for volatiles.

    - Field Duplicate Samples: Five were collected and analyzed for volatiles. All RPDs were within the control limits in FWQAPP Table 3-1 of ≤50%. The RPD criterion was only applied when both sample results were ≥5× the LOQ. In cases where results were <5× the LOQ, the reasonable control limit of ± the LOQ was applied. See Appendix C for a complete comparison of all primary and field duplicate results.

4.7 METALS

Thirteen primary MI soil samples, five field duplicates, and two equipment rinsates were analyzed by TA-North Canton for various metals by USEPA Methods 6020 and 7471A. Eight primary MI soil samples were analyzed by TA-North Canton for only arsenic by USEPA Method 6020. Four samples were validated at Level IV.

- MDL studies were not evaluated as part of this project.
- Calibration: Except as noted below, calibration criteria were met.
    - o As per DoD QSM Table F-8, the mass calibrations were ≤0.1 atomic mass units (amu) of the true values and the resolutions were <0.9 amu at full width at 10% peak height. Except as noted below, the %RSDs were within the control limit listed in the DoD QSM Table F-8 of ≤5%.

      Results listed in the table below were qualified as estimated, "J," and were qualified with an "M" qualification code.

Samples qualified for tune %RSD outliers		
Analyte	**%RSD**	**Qualified Samples**
^{78}Selenium	18%	LL3SD-416M-0001-SO, LL2SS-516M-0001-SO

    - o Initial calibration: Linear regression r-values were within the control limit listed in the DoD QSM Tables F-7 and F-8 of ≥0.995.
    - o The ICP-mass spectrometer (ICPMS) ICV and CCV recoveries were within the control limits listed in DoD QSM Table F-8 of 90-110%. The mercury ICV and CCV recoveries were within the control limits listed in DoD QSM Table F-7 of 90-110% and 80-120%, respectively.
    - o Except as noted below, the MRL recoveries were within the control limits listed in DoD QSM Tables F-7 and F-8 of 80-120%. The nondetected results listed in the table below were rejected, "R," and were qualified with a "C" qualification code.

Samples qualified for MRL %R outliers		
Analyte	**%R**	**Qualified Samples**
Silver	0%	LL3SD-416M-0001-SO, LL2SS-516M-0001-SO

- Blanks: The method blanks and CCBs (Level IV only) had no applicable detects above the control limit listed in DoD QSM Tables F-7 and F-8 of one-half the MRL or one-tenth the amount detected in a sample.
- Interference Check Samples: ICP and ICPMS interference check sample A (ICSA) and AB (ICSAB) recoveries were within the control limits listed in DoD QSM Table F-8 of 80-120%. There were no analytes detected in the ICSA above the control limit listed in DoD QSM Table F-8 of <DL.

- Blank Spikes and Laboratory Control Samples: LCS recoveries were within the control limits listed in DoD QSM Table G-19 of 80-120%.

- Laboratory Duplicates: No laboratory duplicate analyses were performed on a site sample.

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on LL2SS-516M-0001-SO and LL1SB-645M-0101-SO for all analytes except mercury. Although not a valid MS/MSD sample, MS/MSD analyses were performed on EQUIP RINSATE 2-11-11 for mercury only. Except as noted below, recoveries were within the control limits listed in DoD QSM Table G-19 of 80-120%. Matrix spike control limits were not applied when the native sample concentration exceeded the spiked amount by a factor of four or more.

  Results noted in the table below (all detects) were qualified as estimated, "J," in the associated samples; however, nondetected results were not qualified for recoveries above the control limit. All qualified results were coded with a "Q" qualification code. When no other qualifications with conflicting bias were assigned to a result, detected results with low recoveries were assigned a negative bias, "J-." As per the National Functional Guidelines, all samples in an SDG were qualified for associated %R outliers; however, parent MS/MSD samples were not qualified for outliers in another parent sample.

Samples qualified for matrix spike recovery outliers			
Parent Sample	**Analyte**	**Recovery**	**Qualified Samples**
LL2SS-516M-0001-SO	Antimony	26%, 27%	Antimony in all samples in SDG J1728
	Arsenic	64%, - - -	Arsenic in all validated samples in SDG J1728
	Chromium	17%, 69%	Chromium in all samples in SDG J1728.
	Cobalt	71%, - - -	Cobalt in all samples in SDG J1728 except LL1SB-645M-0101-SO
	Copper	67%, - - -	Copper in all samples in SDG J1728
	Lead	63%, - - -	Lead in all samples in SDG J1728 except LL1SB-645M-0101-SO
	Nickel	34%, 73%	Nickel in all samples in SDG J1728
	Selenium	62%, 70%	Selenium in all samples in SDG J1728
LL1SB-645M-0101-SO	Antimony	46%, 44%	Antimony in all samples in SDG J1728
	Arsenic	70%, - - -	Arsenic in all validated samples in SDG J1728
	Cadmium	66%, 63%	Cadmium in all validated samples in SDG J1728 except LL2SS-516M-0001-SO
	Chromium	11%, 4%	Chromium in all samples in SDG J1728
	Copper	31%, 13%	Copper in all samples in SDG J1728
	Nickel	47%, 55%	Nickel in all samples in SDG J1728
	Selenium	68%, 66%	Selenium in all samples in SDG J1728
	Barium	- - -, 64%	Barium in all validated samples in SDG J1728 except LL2SS-516M-0001-SO

"- - -" indicates an acceptable recovery.

The thallium RPD (29%) exceeded the control limit for LL1SB-645M-0101-SO; therefore, except for LL2SS-516M-0001-SO, thallium in all samples in SDG J1728 were qualified as estimated, "J," for detects and, "UJ," for nondetects. The qualified results were coded with an "*III" qualification code.

- Serial Dilution: Serial dilution analyses were performed on LL2SS-516M-0001-SO and LL1SB-645M-0101-SO for all analytes except mercury. Except as noted below, serial dilution %Ds were within the control limit listed in DoD QSM Table F-8 of ≤10%. The serial dilution control limit is only applicable when the original sample concentration is minimally ≥50× the DL for ICP and ICP-MS analytes and ≥25× the DL for mercury. As per the National Functional Guidelines, all samples in an SDG were qualified for associated %D outliers; however, parent MS/MSD samples were not qualified for outliers in another parent sample.

  All detect results for the analytes noted in the table below were qualified as estimated, "J," and were coded with an "A" qualification code. When no other qualifications with conflicting bias were assigned to a result, detected results noted in the table below were assigned a negative bias, "J-."

Samples qualified for serial dilution %D outliers			
Parent Sample	**Analyte**	**%D**	**Qualified Samples**
LL2SS-516M-0001-SO	Aluminum	16%	Aluminum in all samples in SDG J1728 except LL1SB-645M-0101-SO
	Calcium	12%	Calcium in all samples in SDG J1728 except LL1SB-645M-0101-SO
LL1SB-645M-0101-SO	Cadmium	15%	Cadmium in all samples in SDG J1728 except LL2SS-516M-0001-SO

- Internal Standards: As per the DOD QSM Table F-8, the ICPMS sample internal standards intensities were within 30-120% of those in the ICB.

- Sample Result Verification: For Level IV validation, calculations were verified and the sample results reported on the sample result summary were verified against the raw data. Any result reported between the DL and the LOQ was qualified as estimated, "J."

  Due to instrument limitations, the mercury raw data did not list the sample absorbances; therefore, the reviewer was not able to calculate the sample results from the raw data. Additionally, the ICP-MS raw data did not list absorbances for the ICV, CCV, ICSAB, and MRL samples, and the %R was listed instead of the sample concentrations.

- Manual Integrations: No manual integrations were noted in the mercury analyses.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

- Field Blanks and Equipment Rinsates: Two equipment rinsate samples were collected in association with the samples in this field effort. Sodium was detected in one of the rinsate samples at 260 µg/L; therefore, sodium detected in LL3SD-416M-0001-SD was qualified as nondetected, "U." The qualified result was coded with an "F" qualification code.

- Field Duplicate Samples: Five samples were collected and analyzed for metals. Except as noted below, the RPDs were within the control limits in FWQAPP Table 3-1 of ≤50%. The RPD criterion was only applied when both sample results were ≥5× the LOQ. In cases where results were <5× the LOQ, the reasonable control limit of ± the LOQ was applied. See Appendix C for a complete comparison of all primary and field duplicate results.

Table 7. Metals field duplicate outliers

Analyte	Sample	Result (mg/kg)	Duplicate	Result (mg/kg)	RPD	W/In LOQ?
Nickel	LL4SS-416M-0001/0002-SO	24	LL4SS-417M-0001-SO	47	65%	N/A

4.8 GENERAL CHEMISTRY - HEXAVALENT CHROMIUM

Thirteen primary MI soil samples, five field duplicates, and two equipment rinsate samples were analyzed by TA-North Canton for hexavalent chromium by Method 7196A. Three samples were validated at Level IV.

- MDL studies were not evaluated as part of this project.

- Calibration: Calibration criteria were met.

  - Initial calibration: Hexavalent chromium linear regression r values were within the control limit listed in the DoD QSM Table F-9 of ≥0.995.

  - The ICV and CCV recoveries were within the control limits listed in DoD QSM Table F-9 of 90-110%.

  - Although not required by the DoD QSM, a standard of 3× the DL is required by the FWQAPP. As no MRLs were analyzed, the results, both detects, were qualified as estimated, "J," for detects reported at concentrations less than 10× the LOQ.

- Blanks: Except as noted below, the method blanks and CCBs had no applicable detects above the control limit listed in the DoD QSM Table F-9 of one-half the MRL or one-tenth the amount detected in a sample.

  Results listed in the table below were qualified as "J," for detects and "UJ," for nondetects and all qualified results were coded with a B" qualification code. When no other qualifications with conflicting bias were assigned to a result, detected results assigned a negative bias, "J-."

Samples qualified for method blank detects			
Analyte	**MB result (mg/kg)**	**LOQ (mg/kg)**	**Qualified Samples**
Hexavalent chromium	-0.60	0.80	LL34SD-416M-0001-SO, LL2SS-516M-0001-SO

- Blank Spikes and Laboratory Control Samples: Hexavalent chromium recoveries were within the laboratory-established control limits of 80-120%.

- Laboratory Duplicates: No laboratory duplicates were performed for hexavalent chromium.

- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed for hexavalent chromium. The method requires one matrix spike to be analyzed for every 10 environmental samples analyzed; however, as the samples were all reported by the method of standard additions (see below), the reviewer deemed a matrix spike unnecessary.

- Sample Result Verification: For Level IV validation, calculations were verified and the sample results reported on the sample result summary were verified against the raw data. Any result reported between the DL and the LOQ was qualified as estimated, "J."

  Hexavalent chromium was reported utilizing the method of standard additions (MSA), which is recommended for matrices expected to have interference. Results from MSA are best when the MSA linear regression slope is nearly equivalent to the initial calibration slope; however the slopes for most site samples were more than a factor of 10 less than the initial calibration slope, indicating a nominal change in absorbance is observed in the MSA analyses for a relatively significant change in concentration.

- Manual Integrations: Manual integrations are not applicable to these analyses.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

  - Field Blanks and Equipment Rinsates: Three equipment rinsate samples were collected in association with the samples in this field effort. Hexavalent chromium was not detected in any of the equipment rinsate samples.

  - Field Duplicate Samples: Five field duplicate pairs were collected and analyzed for nitrocellulose and hexavalent chromium. All RPDs were within the control limits in FWQAPP Table 3-1 of ≤50%. The RPD criterion was only applied when both sample results were ≥5× the LOQ. In cases where results were <5× the LOQ, the reasonable control limit of ± the LOQ was applied. See Appendix C for comparisons of all samples and analytes

5. DATA USABILITY

5.1 DATA QUALIFICATION SUMMARY

Table 8, below, lists the number of analytes qualified for quality control outliers. A summary of the qualifications applied to the data can be found in Appendix B.

Some data were rejected for calibration and other QC criteria outliers. In instances where a data point had multiple results, the reviewer chose the most technically sound result to report and rejected the remaining data points. These rejected data points for multiple results do not affect data quality or usability and are not included in Table 8.

5.2 DATA USABILITY

According to a table provided by Prudent, all planned samples were collected; therefore, the field completeness was 100%.

The analytical completeness goal for the project established in the FWQAPP was 90% for each method. Data with LOQs that exceeded the established criteria and data estimated for quality control outliers or for detects between the DL and the LOQ were included in Table 8 for informational purposes only. The completeness goal was met for all analyses. The following table summarizes the calculated completeness for the project.

Table 8. Analytical completeness for primary data

			Number of Results					
Analysis	**Samples Analyzed**	**Analytes per Sample**	**Total**	**Rejected**	**LODs / DLs Exceeding Criteria**	**Estimated for QC Outliers**	**Estimated for Detects <LOQ**	**Percent Complete**
Explosives	2	16	30	0	0/0	4	3	100%
PCBs	4	7	28	0	14/14	28	1	100%
Pesticides*	3	21	63	0	51/43	63	3	93.5%
SVOCs**	8	64 or 16	273	4	59/53	200	5	98.5%
VOCs	2	37	74	2	74/36	72	1	100%
Metals	3	23 or 1	47	2	1/0	29	6	95.7%
Hexavalent chromium	2	1	2	0	0/0	2	2	100%
Nitroguanidine	2	1	2	0	0/0	0	0	100%
Nitrocellulose	2	1	2	0	0/0	2	2	100%
Totals			**521**	**8**	**199/146**	**400**	**23**	**98.5%**

*Duplicate results exist for some of the samples reviewed by ADR. The sample count is inclusive of the extra results.

**The reviewer chose to report 2,4-dinitrotoluene and 2,6-dinitrotoluene from the 8330B analyses and therefore, these two compounds are not included in the analytes count.

6. CONCLUSIONS AND RECOMMENDATIONS

6.1 PRIMARY AND FIELD DUPLICATE SAMPLE COMPARISON SUMMARY

Primary and field duplicate sample comparisons were considered to be in good agreement. About 3% of the field duplicate pair results were above the FWQAPP control limit of 50%, or +/- the LOQ for results below the LOQ.

Most RPD outliers were in the SVOCs and most outliers were in pair LL3SD-416M-0001-SD/LL3SD-417M-0001-SD. Higher concentrations (2× to 3×) were reported in the parent sample.

Table 9. Primary/field duplicate sample comparison summary

Method	Number of Analytes	Primary/Field Duplicate Pairs	Total Analytes	Number of results within control limits	Number of results above control limit
Explosives	16	5	80	80	0
PCBs	7	5	35	34	1
Pesticides	20	5	90	90	0
SVOCs	66	5	341	319	22
VOCs	37	5	185	185	0
Metals	23	5	113	112	1
Hexavalent chromium	1	5	5	5	0
Nitroguanidine	1	5	5	5	0
Nitrocellulose	1	5	5	5	0

6.2 SPECIFIC DATA CONCERNS

Specific concerns regarding the data are noted below:

- Most chains-of-custody had some text that was overwritten or obliterated. Some changes were appropriately lined out but were not initialed or dated. A few changes were appropriately lined out and initialed but were not dated.
- MRLs were not analyzed in association with most methods.
- Sample identifications and analyses were altered by the laboratory, apparently without direction from Prudent. A document provided by J. Jent indicated the changes were generally acceptable but did not provide written documentation for the changes.
- Hexavalent chromium was reported utilizing the method of standard additions (MSA), which is recommended for matrices expected to have interference. Results from MSA are best when the MSA linear regression slope is nearly equivalent to the initial calibration slope; however the slopes for most site samples were more than a factor of 10 less than the initial calibration slope, indicating a nominal change in absorbance is observed in the MSA analyses for a relatively significant change in concentration.

- LOD exceedances:
  - Pesticides – 51 LODs and 43 DLs
  - PCBs - 14 LODs and 14 DLs
  - VOCs - 74 LODs and 36 DLs
  - SVOCs - 59 LODs and 53 DLs
  - Metals – 1 LOD

In order to avoid repetition of the issues noted above, the following actions should be taken:

- MEC^X recommends that all sample ID and analysis changes be documented in writing and approved by the contractor project manager. All documentation should be included in the sample data packages.
- MEC^X recommends adding the MRL requirement to the laboratory's statement of work.
- The proper procedure for making changes on a chain-of-custody should be reviewed with the Prudent field sampling team.
- MEC^X recommends requesting the laboratory, TA-North Canton, to analyze one MRL standard and one matrix spike by MSA in order to confirm the laboratory's accuracy in reporting hexavalent chromium by MSA.
- MEC^x recommends clearly conveying the LOD/LOQ goals to the laboratory to ensure that project goals are met.

7. REFERENCES

Contract Laboratory Program National Functional Guidelines for Organic Data Review. United States Environmental Protection Agency Contract Laboratory Program (CLP). February 1994.

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Department of Defense Quality Systems Manual for Environmental Laboratories, Version 4.2. DoD Data Quality Workgroup. October 2010.

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Facility-Wide Sampling and Analysis Plan for Environmental Investigations at the Ravenna Army Ammunition Plant, Ravenna, Ohio. SAIC. March 2001.

Final Work Plan for Sampling & Closure of Load Lines 1,2,3,4,12 (RVAAP-08,09,10,11, and 12) and other Areas of Concern. Prudent Technologies, Inc. July 2010.

Final Sampling Report of Surface and Subsurface Incremental Sampling Methodology at Load Lines 1, 2, 3, and 4 (RVAAP-08, 09, 10 and 11). Prudent Technologies, Inc. March 2011.

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Quality Assurance Project Plan Addendum for the Sampling of Soils Below Floor Slabs at LLs-2, 3, 4, and Excavation and Transportation of Contaminated Soils to Load Lines 4. URS. April 2008.

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Revision 6. United States Environmental Protection Agency. January 3, 2008.

APPENDIX A

Qualified Sample Result Forms

Qualification Code Reference Table

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect.
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient was noncompliant.
R	Calibration RRF was noncompliant.	%R for calibration is not within control limits.
B	Presumed contamination as indicated by the preparation (method) blank results.	Presumed contamination as indicated by the preparation (method) or calibration blank results.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or RPD high.	MS recovery was poor.
E	Not applicable	Duplicates showed poor agreement.
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable	ICP Serial Dilution %D were not within control limits.
M	Tuning (BFB or DFTPP) was noncompliant.	ICPMS tuning was noncompliant
T	Presumed contamination as indicated by the trip blank results.	Not applicable
+	False positive – reported compound was not present.	False positive – reported compound was not present.
-	False negative – compound was present but not reported.	False negative – compound was present but not reported.
F	Presumed contamination as indicated by the FB or ER results.	Presumed contamination as indicated by the FB or ER results.
$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Instrument performance for pesticides was poor.	Post Digestion Spike recovery was not within control limits.
*II, *III	A deficiency was found that has been described in the "Sample Management," section (*II) or the "Method Analyses" section (*III).	A deficiency was found that has been described in the "Sample Management," section (*II) or the "Method Analyses" section (*III).

Validated Sample Result Forms: 240-1620-1

Analysis Method 6020

Sample Name LL3SB-415M-0103-SO **AnalysisType:** RES/TOT

Lab Sample Name: 240-1620-3 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
ARSENIC	7440-38-2	19	0.47	0.049	mg/Kg			

Analysis Method 8081A

Sample Name CHASS-0001M-0001-SO **AnalysisType:** RES

Lab Sample Name: 240-1620-4 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
4,4'-DDD	72-54-8	1.4	4	1.3	ug/Kg	U	UJ	C
4,4'-DDE	72-55-9	1.4	3.4	0.79	ug/Kg	U	UJ	C
4,4'-DDT	50-29-3	1.4	4	1.3	ug/Kg	U	UJ	C
ALDRIN	309-00-2	2.7	8.1	2.4	ug/Kg	U	UJ	C
ALPHA-BHC	319-84-6	2.7	5	1.5	ug/Kg	U	UJ	C
ALPHA-CHLORDANE	5103-71-9	2.7	6.1	1.9	ug/Kg	U	UJ	C
BETA-BHC	319-85-7	2.7	7.1	2.2	ug/Kg	U	UJ	C
DELTA-BHC	319-86-8	2.7	8.1	2.4	ug/Kg	U	UJ	C
DIELDRIN	60-57-1	1.4	3.4	0.95	ug/Kg	U	UJ	C
ENDOSULFAN I	959-98-8	1.4	3.4	1	ug/Kg	U	UJ	C
ENDOSULFAN II	33213-65-9	2.7	5	1.7	ug/Kg	U	UJ	C
ENDOSULFAN SULFATE	1031-07-8	2.7	6.1	1.8	ug/Kg	U	UJ	C
ENDRIN	72-20-8	1.4	3.4	1	ug/Kg	U	UJ	C
ENDRIN ALDEHYDE	7421-93-4	2.7	6.1	2	ug/Kg	U	UJ	C
ENDRIN KETONE	53494-70-5	1.4	4	1.3	ug/Kg	U	UJ	C
GAMMA-BHC	58-89-9	2.7	5	1.5	ug/Kg	U	UJ	C
GAMMA-CHLORDANE	5103-74-2	1.4	3.4	0.85	ug/Kg	U	UJ	C
HEPTACHLOR	76-44-8	2.7	7.1	2.2	ug/Kg	U	UJ	C
HEPTACHLOR EPOXIDE	1024-57-3	2.7	5	1.6	ug/Kg	U	UJ	C
METHOXYCHLOR	72-43-5	6.7	10	3	ug/Kg	U	UJ	C
TOXAPHENE	8001-35-2	40	140	38	ug/Kg	U	UJ	C

Analysis Method 8082

Sample Name CHASS-0001M-0001-SO **AnalysisType:** RES

Lab Sample Name: 240-1620-4 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
AROCLOR 1016	12674-11-2	25	66	21	ug/Kg	U	UJ	C
AROCLOR 1221	11104-28-2	25	50	16	ug/Kg	U	UJ	C
AROCLOR 1232	11141-16-5	25	45	14	ug/Kg	U	UJ	C
AROCLOR 1242	53469-21-9	25	40	13	ug/Kg	U	UJ	C
AROCLOR 1248	12672-29-6	25	55	17	ug/Kg	U	UJ	C
AROCLOR 1254	11097-69-1	25	55	17	ug/Kg	U	UJ	C
AROCLOR 1260	11096-82-5	25	55	17	ug/Kg	U	UJ	C

Analysis Method 8270C

Sample Name CHASS-0001M-0001-SO **AnalysisType:** RES

Lab Sample Name: 240-1620-4 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
1,2,4-TRICHLOROBENZENE	120-82-1	27	50	27	ug/Kg	U	UJ	C
1,2-DICHLOROBENZENE	95-50-1	27	50	9.8	ug/Kg	U	UJ	C
1,3-DICHLOROBENZENE	541-73-1	27	50	11	ug/Kg	U	UJ	C
1,4-DICHLOROBENZENE	106-46-7	27	50	20	ug/Kg	U	UJ	C
2,4,5-TRICHLOROPHENOL	95-95-4	27	150	25	ug/Kg	U	UJ	C
2,4,6-TRICHLOROPHENOL	88-06-2	81	150	81	ug/Kg	U	UJ	C
2,4-DICHLOROPHENOL	120-83-2	27	150	20	ug/Kg	U	UJ	C
2,4-DIMETHYLPHENOL	105-67-9	81	150	20	ug/Kg	U	UJ	C
2,4-DINITROPHENOL	51-28-5	81	330	81	ug/Kg	U	UJ	C
2,4-DINITROTOLUENE	121-14-2	27	200	27	ug/Kg	U	UJ	C
2,6-DINITROTOLUENE	606-20-2	27	200	21	ug/Kg	U	R	D
2-CHLORONAPHTHALENE	91-58-7	3.3	50	3.3	ug/Kg	U	UJ	C
2-CHLOROPHENOL	95-57-8	27	50	27	ug/Kg	U	UJ	C
2-METHYLNAPHTHALENE	91-57-6	3.3	6.7	3.3	ug/Kg	U	UJ	C
2-METHYLPHENOL	95-48-7	81	200	81	ug/Kg	U	UJ	C
2-NITROANILINE	88-74-4	27	200	9.2	ug/Kg	U	UJ	C
2-NITROPHENOL	88-75-5	27	50	27	ug/Kg	U	UJ	C
3,3'-DICHLOROBENZIDINE	91-94-1	81	100	18	ug/Kg	U	UJ	C
3-METHYLPHENOL & 4-METHYL	65794-96-9	81	400	20	ug/Kg	U	UJ	C
3-NITROANILINE	99-09-2	81	200	16	ug/Kg	U	UJ	C
4,6-DINITRO-2-METHYLPHENOL	534-52-1	81	150	81	ug/Kg	U	UJ	C
4-BROMOPHENYL-PHENYLETHE	101-55-3	27	50	13	ug/Kg	U	UJ	C
4-CHLORO-3-METHYLPHENOL	59-50-7	27	150	21	ug/Kg	U	UJ	C
4-CHLOROANILINE	106-47-8	27	150	17	ug/Kg	U	UJ	C
4-CHLOROPHENYL-PHENYLETH	7005-72-3	27	50	13	ug/Kg	U	UJ	C
4-NITROANILINE	100-01-6	27	200	26	ug/Kg	U	UJ	C
4-NITROPHENOL	100-02-7	81	330	81	ug/Kg	U	UJ	C
ACENAPHTHENE	83-32-9	3.3	6.7	3.3	ug/Kg	U	UJ	C

Analysis Method 8270C

ACENAPHTHYLENE	208-96-8	3.3	6.7	3.3	ug/Kg	U	UJ	C
ANTHRACENE	120-12-7	3.3	6.7	3.3	ug/Kg	U	UJ	C
BENZO(A)ANTHRACENE	56-55-3	3.3	6.7	3.3	ug/Kg	U	UJ	C
BENZO(A)PYRENE	50-32-8	3.3	6.7	3.3	ug/Kg	U	UJ	C
BENZO(B)FLUORANTHENE	205-99-2	3.3	6.7	3.3	ug/Kg	U	UJ	C
BENZO(G,H,I)PERYLENE	191-24-2	3.3	6.7	3.3	ug/Kg	U	UJ	C
BENZO(K)FLUORANTHENE	207-08-9	3.3	6.7	3.3	ug/Kg	U	UJ	C
BENZOIC ACID	65-85-0	340	670	340	ug/Kg	U M	UJ	C
BENZYL ALCOHOL	100-51-6	27	330	21	ug/Kg	U	UJ	C
BIS(2-CHLOROETHOXY)METHAN	111-91-1	27	100	22	ug/Kg	U	UJ	C
BIS(2-CHLOROETHYL) ETHER	111-44-4	3.3	100	2	ug/Kg	U	UJ	C
BIS(2-CHLOROISOPROPYL) ETHE	108-60-1	27	100	9.6	ug/Kg	U	UJ	C
BIS(2-ETHYLHEXYL) PHTHALAT	117-81-7	80	50	19	ug/Kg		UJ	B, C
BUTYLBENZYL PHTHALATE	85-68-7	27	50	10	ug/Kg	U	UJ	C
CARBAZOLE	86-74-8	27	50	27	ug/Kg	U	UJ	C
CHRYSENE	218-01-9	3.3	6.7	1.1	ug/Kg	U	UJ	C
DIBENZO(A,H)ANTHRACENE	53-70-3	3.3	6.7	3.3	ug/Kg	U	UJ	C
DIBENZOFURAN	132-64-9	3.3	50	3.3	ug/Kg	U	UJ	C
DIETHYL PHTHALATE	84-66-2	21	50	16	ug/Kg	J	J	C
DIMETHYL PHTHALATE	131-11-3	27	50	17	ug/Kg	U	UJ	C
DI-N-BUTYL PHTHALATE	84-74-2	18	50	15	ug/Kg	J	J	C
DI-N-OCTYL PHTHALATE	117-84-0	27	50	27	ug/Kg	U	UJ	C
FLUORANTHENE	206-44-0	3.3	6.7	3.3	ug/Kg	U	UJ	C
FLUORENE	86-73-7	3.3	6.7	3.3	ug/Kg	U	UJ	C
HEXACHLOROBENZENE	118-74-1	3.3	6.7	2.1	ug/Kg	U	UJ	C
HEXACHLOROBUTADIENE	87-68-3	27	50	27	ug/Kg	U	UJ	C
HEXACHLOROCYCLOPENTADIE	77-47-4	27	330	27	ug/Kg	U	UJ	C
HEXACHLOROETHANE	67-72-1	27	50	9.1	ug/Kg	U	UJ	C
INDENO(1,2,3-CD)PYRENE	193-39-5	3.3	6.7	3.3	ug/Kg	U	UJ	C
ISOPHORONE	78-59-1	27	50	13	ug/Kg	U	UJ	C
NAPHTHALENE	91-20-3	3.3	6.7	3.3	ug/Kg	U	UJ	C
NITROBENZENE	98-95-3	3.3	100	2.2	ug/Kg	U	UJ	C

Analysis Method 8270C

N-NITROSO-DI-N-PROPYLAMINE	621-64-7	27	50	27	ug/Kg	U	UJ	C
N-NITROSODIPHENYLAMINE	86-30-6	27	50	21	ug/Kg	U	UJ	C
PENTACHLOROPHENOL	87-86-5	81	150	81	ug/Kg	U	UJ	C
PHENANTHRENE	85-01-8	3.3	6.7	3.3	ug/Kg	U	UJ	C
PHENOL	108-95-2	27	50	27	ug/Kg	U	UJ	C
PYRENE	129-00-0	3.3	6.7	3.3	ug/Kg	U	UJ	C

Sample Name LL3SB-415M-0103-SO **AnalysisType:** RES

Lab Sample Name: 240-1620-3 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
ACENAPHTHENE	83-32-9	3.3	6.8	3.3	ug/Kg	U	UJ	C
ACENAPHTHYLENE	208-96-8	3.3	6.8	3.3	ug/Kg	U	UJ	C
ANTHRACENE	120-12-7	6.9	6.8	3.3	ug/Kg		J	C
BENZO(A)ANTHRACENE	56-55-3	89	6.8	3.3	ug/Kg			
BENZO(A)PYRENE	50-32-8	100	6.8	3.3	ug/Kg			
BENZO(B)FLUORANTHENE	205-99-2	120	6.8	3.3	ug/Kg	M		
BENZO(G,H,I)PERYLENE	191-24-2	55	6.8	3.3	ug/Kg		J	C
BENZO(K)FLUORANTHENE	207-08-9	56	6.8	3.3	ug/Kg	M	J	C
CHRYSENE	218-01-9	88	6.8	1.1	ug/Kg			
DIBENZO(A,H)ANTHRACENE	53-70-3	17	6.8	3.3	ug/Kg		J	C
FLUORANTHENE	206-44-0	87	6.8	3.3	ug/Kg			
FLUORENE	86-73-7	3.3	6.8	3.3	ug/Kg	U	UJ	C
INDENO(1,2,3-CD)PYRENE	193-39-5	50	6.8	3.3	ug/Kg		J	C
NAPHTHALENE	91-20-3	3.3	6.8	3.3	ug/Kg	U	UJ	C
PHENANTHRENE	85-01-8	23	6.8	3.3	ug/Kg		J	C
PYRENE	129-00-0	89	6.8	3.3	ug/Kg			

Validated Sample Result Forms: 240-1728-1

Analysis Method 6020

Sample Name LL2SS-516M-0001-SO **AnalysisType:** RE3/TOT

Lab Sample Name: 240-1728-14 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
ALUMINUM	7429-90-5	8100	9.9	2.5	mg/Kg	J	J-	A
ANTIMONY	7440-36-0	0.15	0.19	0.059	mg/Kg	J	J	Q
ARSENIC	7440-38-2	10	0.48	0.05	mg/Kg		J-	Q
BARIUM	7440-39-3	79	0.48	0.12	mg/Kg	J		
BERYLLIUM	7440-41-7	0.86	0.48	0.017	mg/Kg	D		
CADMIUM	7440-43-9	0.27	0.95	0.015	mg/Kg	J D		
CALCIUM	7440-70-2	17000	200	40	mg/Kg	J	J-	A
CHROMIUM	7440-47-3	27	0.48	0.15	mg/Kg		J-	Q
COBALT	7440-48-4	8.3	0.48	0.021	mg/Kg	D	J-	Q
COPPER	7440-50-8	19	0.38	0.1	mg/Kg		J-	Q
IRON	7439-89-6	20000	49	11	mg/Kg	J	J	Q
LEAD	7439-92-1	35	0.29	0.067	mg/Kg		J-	Q
MAGNESIUM	7439-95-4	4100	99	8.8	mg/Kg			
MANGANESE	7439-96-5	670	2.4	0.76	mg/Kg	D J	J-	Q
NICKEL	7440-02-0	26	0.48	0.082	mg/Kg		J-	Q
POTASSIUM	7440-09-7	1100	99	3.7	mg/Kg			
SELENIUM	7782-49-2	1.2	0.48	0.02	mg/Kg		J-	Q, M
SILVER	7440-22-4	0.24	0.48	0.076	mg/Kg	U	R	C
SODIUM	7440-23-5	160	99	14	mg/Kg			
THALLIUM	7440-28-0	0.17	0.19	0.054	mg/Kg	J	J	
VANADIUM	7440-62-2	15	0.48	0.041	mg/Kg			
ZINC	7440-66-6	88	19	4.8	mg/Kg	D J	J-	Q

Analysis Method 6020

Sample Name LL3SD-416M-0001-SD **AnalysisType:** RES/TOT

Lab Sample Name: 240-1728-4 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
ALUMINUM	7429-90-5	10000	86	22	mg/Kg	D	J-	A
ANTIMONY	7440-36-0	1.4	0.17	0.054	mg/Kg		J-	Q
ARSENIC	7440-38-2	14	0.43	0.045	mg/Kg		J-	Q
BARIUM	7440-39-3	150	0.43	0.11	mg/Kg		J-	Q
BERYLLIUM	7440-41-7	1.3	0.86	0.03	mg/Kg	D		
CADMIUM	7440-43-9	1	1.7	0.027	mg/Kg	J D	J-	Q, A
CALCIUM	7440-70-2	15000	1700	350	mg/Kg	D	J-	A
CHROMIUM	7440-47-3	26	0.43	0.14	mg/Kg		J-	Q
COBALT	7440-48-4	21	0.86	0.039	mg/Kg	D	J-	Q
COPPER	7440-50-8	9.6	0.35	0.095	mg/Kg		J-	Q
IRON	7439-89-6	24000	43	9.4	mg/Kg			
LEAD	7439-92-1	23	0.26	0.061	mg/Kg		J-	Q
MAGNESIUM	7439-95-4	3400	86	7.7	mg/Kg			
MANGANESE	7439-96-5	3700	4.3	1.4	mg/Kg	D	J-	Q
NICKEL	7440-02-0	28	0.43	0.075	mg/Kg		J-	Q
POTASSIUM	7440-09-7	730	86	3.3	mg/Kg			
SELENIUM	7782-49-2	1.1	0.43	0.018	mg/Kg		J-	Q, M
SILVER	7440-22-4	0.43	0.86	0.14	mg/Kg	U	R	C
SODIUM	7440-23-5	110	86	12	mg/Kg		U	F
THALLIUM	7440-28-0	0.16	0.17	0.049	mg/Kg	J	J	*III
VANADIUM	7440-62-2	23	0.43	0.037	mg/Kg			
ZINC	7440-66-6	160	35	8.6	mg/Kg	D	J-	Q

Analysis Method 7196A

Sample Name LL2SS-516M-0001-SO **AnalysisType:** RES/TOT

Lab Sample Name: 240-1728-14 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
HEXAVALENT CHROMIUM	18540-29-9	0.45	0.82	0.28	mg/Kg	J	J-	B, H

Sample Name LL3SD-416M-0001-SD **AnalysisType:** RES/TOT

Lab Sample Name: 240-1728-4 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
HEXAVALENT CHROMIUM	18540-29-9	0.46	0.82	0.28	mg/Kg	J	J-	B, H

Analysis Method 7471A

Sample Name LL2SS-516M-0001-SO **AnalysisType:** RES/TOT

Lab Sample Name: 240-1728-14 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
MERCURY	7439-97-6	0.023	0.1	0.014	mg/Kg	J	J	

Sample Name LL3SD-416M-0001-SD **AnalysisType:** RES/TOT

Lab Sample Name: 240-1728-4 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
MERCURY	7439-97-6	0.3	0.085	0.012	mg/Kg			

Analysis Method 8081A

Sample Name LL2SS-516M-0001-SO **AnalysisType:** RES

Lab Sample Name: 240-1728-14 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
4,4'-DDD	72-54-8	14	41	13	ug/Kg	U	UJ	C
4,4'-DDE	72-55-9	19	35	7.9	ug/Kg	J D	J	C
4,4'-DDT	50-29-3	14	41	13	ug/Kg	U	UJ	C
ALDRIN	309-00-2	27	81	24	ug/Kg	U	UJ	C
ALPHA-BHC	319-84-6	27	51	15	ug/Kg	U J	UJ	C
ALPHA-CHLORDANE	5103-71-9	27	61	19	ug/Kg	U J	UJ	C
BETA-BHC	319-85-7	27	71	22	ug/Kg	U J	UJ	C
DELTA-BHC	319-86-8	27	81	24	ug/Kg	U	UJ	C
DIELDRIN	60-57-1	14	35	9.6	ug/Kg	U J	UJ	C
ENDOSULFAN I	959-98-8	14	35	11	ug/Kg	U	UJ	C
ENDOSULFAN II	33213-65-9	27	51	17	ug/Kg	U	UJ	C
ENDOSULFAN SULFATE	1031-07-8	27	61	18	ug/Kg	U	UJ	C
ENDRIN	72-20-8	14	35	10	ug/Kg	U J	UJ	C
ENDRIN ALDEHYDE	7421-93-4	27	61	20	ug/Kg	U	UJ	C
ENDRIN KETONE	53494-70-5	14	41	13	ug/Kg	U J	UJ	C
GAMMA-BHC	58-89-9	27	51	15	ug/Kg	U J	UJ	C
GAMMA-CHLORDANE	5103-74-2	9.9	35	8.6	ug/Kg	D J	NJ	C, *III
HEPTACHLOR	76-44-8	27	71	22	ug/Kg	U J	UJ	C
HEPTACHLOR EPOXIDE	1024-57-3	27	51	16	ug/Kg	U J	UJ	C
METHOXYCHLOR	72-43-5	67	100	31	ug/Kg	U J	UJ	C
TOXAPHENE	8001-35-2	410	1400	390	ug/Kg	U M	UJ	C

Analysis Method 8081A

Sample Name LL3SD-416M-0001-SD **AnalysisType:** RES

Lab Sample Name: 240-1728-4 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
4,4'-DDD	72-54-8	34	100	32	ug/Kg	U	UJ	C
4,4'-DDE	72-55-9	34	87	20	ug/Kg	U	UJ	C
4,4'-DDT	50-29-3	34	100	32	ug/Kg	U	UJ	C
ALDRIN	309-00-2	68	200	61	ug/Kg	U	UJ	C
ALPHA-BHC	319-84-6	68	130	37	ug/Kg	U Q	UJ	C
ALPHA-CHLORDANE	5103-71-9	68	150	48	ug/Kg	U	UJ	C
BETA-BHC	319-85-7	130	180	56	ug/Kg	J D	J	C, *III
DELTA-BHC	319-86-8	68	200	61	ug/Kg	U	UJ	C
DIELDRIN	60-57-1	34	87	24	ug/Kg	U	UJ	C
ENDOSULFAN I	959-98-8	34	87	27	ug/Kg	U	UJ	C
ENDOSULFAN II	33213-65-9	68	130	42	ug/Kg	U	UJ	C
ENDOSULFAN SULFATE	1031-07-8	68	150	44	ug/Kg	U	UJ	C
ENDRIN	72-20-8	34	87	25	ug/Kg	U	UJ	C
ENDRIN ALDEHYDE	7421-93-4	68	150	51	ug/Kg	U	UJ	C
ENDRIN KETONE	53494-70-5	34	100	32	ug/Kg	U	UJ	C
GAMMA-BHC	58-89-9	68	130	38	ug/Kg	U Q	UJ	C
GAMMA-CHLORDANE	5103-74-2	34	87	21	ug/Kg	U Q	UJ	C
HEPTACHLOR	76-44-8	68	180	56	ug/Kg	U	UJ	C
HEPTACHLOR EPOXIDE	1024-57-3	68	130	41	ug/Kg	U	UJ	C
METHOXYCHLOR	72-43-5	170	250	76	ug/Kg	U	UJ	C
TOXAPHENE	8001-35-2	1000	3400	970	ug/Kg	U M	UJ	C

Analysis Method 8082

Sample Name LL2SS-516M-0001-SO **AnalysisType:** RES

Lab Sample Name: 240-1728-14 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
AROCLOR 1016	12674-11-2	130	330	110	ug/Kg	U	UJ	C
AROCLOR 1221	11104-28-2	130	250	81	ug/Kg	U	UJ	C
AROCLOR 1232	11141-16-5	130	230	71	ug/Kg	U	UJ	C
AROCLOR 1242	53469-21-9	130	200	66	ug/Kg	U	UJ	C
AROCLOR 1248	12672-29-6	130	280	87	ug/Kg	U	UJ	C
AROCLOR 1254	11097-69-1	670	280	87	ug/Kg	D	J	C, Q, S
AROCLOR 1260	11096-82-5	130	280	87	ug/Kg	U J	UJ	C

Sample Name LL2SS-519M-0001-SO **AnalysisType:** RES

Lab Sample Name: 240-1728-13 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
AROCLOR 1016	12674-11-2	130	330	110	ug/Kg	U	UJ	C
AROCLOR 1221	11104-28-2	130	250	82	ug/Kg	U	UJ	C
AROCLOR 1232	11141-16-5	130	230	71	ug/Kg	U	UJ	C
AROCLOR 1242	53469-21-9	130	200	66	ug/Kg	U	UJ	C
AROCLOR 1248	12672-29-6	130	280	87	ug/Kg	U	UJ	C
AROCLOR 1254	11097-69-1	490	280	87	ug/Kg	D	J	C, S
AROCLOR 1260	11096-82-5	130	280	87	ug/Kg	U	UJ	C

Analysis Method 8082

Sample Name LL3SD-416M-0001-SD **AnalysisType:** RES

Lab Sample Name: 240-1728-4 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
AROCLOR 1016	12674-11-2	25	66	21	ug/Kg	U	UJ	C
AROCLOR 1221	11104-28-2	25	51	16	ug/Kg	U	UJ	C
AROCLOR 1232	11141-16-5	25	46	14	ug/Kg	U	UJ	C
AROCLOR 1242	53469-21-9	25	41	13	ug/Kg	U	UJ	C
AROCLOR 1248	12672-29-6	25	56	17	ug/Kg	U	UJ	C
AROCLOR 1254	11097-69-1	44	56	17	ug/Kg	J	J	C, S
AROCLOR 1260	11096-82-5	25	56	17	ug/Kg	U	UJ	C

Analysis Method 8260B

Sample Name LL2SS-516V-0001-SO **AnalysisType:** RES

Lab Sample Name: 240-1728-15 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
1,1,1-TRICHLOROETHANE	71-55-6	9.2	230	19	ug/Kg	U	UJ	C, S
1,1,2,2-TETRACHLOROETHANE	79-34-5	23	230	8.2	ug/Kg	U	UJ	C, S
1,1,2-TRICHLOROETHANE	79-00-5	23	230	11	ug/Kg	U	UJ	C, S
1,1-DICHLOROETHANE	75-34-3	23	230	16	ug/Kg	U	UJ	C, S
1,1-DICHLOROETHENE	75-35-4	23	230	16	ug/Kg	U	UJ	C, S
1,2-DIBROMOETHANE	106-93-4	23	230	9.2	ug/Kg	U	UJ	C, S
1,2-DICHLOROETHANE	107-06-2	23	230	9.2	ug/Kg	U	UJ	C, S
1,2-DICHLOROETHENE (TOTAL)	540-59-0	7.5	460	7.5	ug/Kg	U	UJ	C, S
1,2-DICHLOROPROPANE	78-87-5	9.2	230	7.5	ug/Kg	U	UJ	C, S
2-BUTANONE	78-93-3	92	920	39	ug/Kg	U	UJ	C, S
2-HEXANONE	591-78-6	46	920	18	ug/Kg	U	UJ	C, S
4-METHYL-2-PENTANONE	108-10-1	92	920	44	ug/Kg	U	UJ	C, S
ACETONE	67-64-1	180	920	160	ug/Kg	U	UJ	C, S
BENZENE	71-43-2	23	230	11	ug/Kg	U	UJ	C, S
BROMOCHLOROMETHANE	74-97-5	23	230	12	ug/Kg	U	UJ	C, S
BROMODICHLOROMETHANE	75-27-4	23	230	9.1	ug/Kg	U J	UJ	C, Q, S
BROMOFORM	75-25-2	23	230	17	ug/Kg	U	UJ	C, S
BROMOMETHANE	74-83-9	46	230	27	ug/Kg	U	UJ	C, S
CARBON DISULFIDE	75-15-0	23	230	11	ug/Kg	U	UJ	C, S
CARBON TETRACHLORIDE	56-23-5	9.2	230	5.9	ug/Kg	U	UJ	C, S
CHLOROBENZENE	108-90-7	9.2	230	5.9	ug/Kg	U	UJ	C, S
CHLOROETHANE	75-00-3	92	230	56	ug/Kg	U	UJ	C, S
CHLOROFORM	67-66-3	23	230	8.1	ug/Kg	U	UJ	C, S
CHLOROMETHANE	74-87-3	23	230	13	ug/Kg	U	UJ	C, S
CIS-1,2-DICHLOROETHENE	156-59-2	9.2	230	6.3	ug/Kg	U	UJ	C, S
CIS-1,3-DICHLOROPROPENE	10061-01-5	9.2	230	7.2	ug/Kg	U J	UJ	C, Q, S
DIBROMOCHLOROMETHANE	124-48-1	23	230	11	ug/Kg	U	UJ	C, S
ETHYL BENZENE	100-41-4	9.2	230	4.9	ug/Kg	U	UJ	C, S

Analysis Method 8260B

METHYLENE CHLORIDE	75-09-2	200	230	71	ug/Kg	J	R	*II
STYRENE	100-42-5	9.2	230	5.1	ug/Kg	U J	UJ	C, Q, S
TETRACHLOROETHENE	127-18-4	23	230	11	ug/Kg	U	UJ	C, S
TOLUENE	108-88-3	23	230	16	ug/Kg	U	UJ	C, S
TOTAL XYLENES	1330-20-7	27	460	7.4	ug/Kg	U	UJ	C, Q, S
TRANS-1,2-DICHLOROETHENE	156-60-5	23	230	8.4	ug/Kg	U	UJ	C, S
TRANS-1,3-DICHLOROPROPENE	10061-02-6	23	230	18	ug/Kg	U J	UJ	C, Q, S
TRICHLOROETHENE	79-01-6	23	230	8.9	ug/Kg	U	UJ	C, S
VINYL CHLORIDE	75-01-4	23	230	16	ug/Kg	U J	UJ	C, Q, S

Analysis Method 8260B

Sample Name LL3SD-416V-0001-SD **AnalysisType:** RES

Lab Sample Name: 240-1728-5 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
1,1,1-TRICHLOROETHANE	71-55-6	9.3	230	20	ug/Kg	U	UJ	C, S
1,1,2,2-TETRACHLOROETHANE	79-34-5	23	230	8.3	ug/Kg	U	UJ	C, S
1,1,2-TRICHLOROETHANE	79-00-5	23	230	11	ug/Kg	U	UJ	C, S
1,1-DICHLOROETHANE	75-34-3	23	230	16	ug/Kg	U	UJ	C, S
1,1-DICHLOROETHENE	75-35-4	23	230	17	ug/Kg	U	UJ	C, S
1,2-DIBROMOETHANE	106-93-4	23	230	9.3	ug/Kg	U	UJ	C, S
1,2-DICHLOROETHANE	107-06-2	23	230	9.3	ug/Kg	U	UJ	C, S
1,2-DICHLOROETHENE (TOTAL)	540-59-0	7.7	470	7.7	ug/Kg	U	UJ	C, S
1,2-DICHLOROPROPANE	78-87-5	9.3	230	7.7	ug/Kg	U	UJ	C, S
2-BUTANONE	78-93-3	93	930	40	ug/Kg	U	UJ	C, S
2-HEXANONE	591-78-6	47	930	19	ug/Kg	U	UJ	C, S
4-METHYL-2-PENTANONE	108-10-1	93	930	45	ug/Kg	U	UJ	C, S
ACETONE	67-64-1	190	930	160	ug/Kg	U	UJ	C, S
BENZENE	71-43-2	23	230	11	ug/Kg	U	UJ	C, S
BROMOCHLOROMETHANE	74-97-5	23	230	12	ug/Kg	U	UJ	C, S
BROMODICHLOROMETHANE	75-27-4	23	230	9.2	ug/Kg	U	UJ	C, S
BROMOFORM	75-25-2	23	230	18	ug/Kg	U	UJ	C, S
BROMOMETHANE	74-83-9	47	230	27	ug/Kg	U	UJ	C, S
CARBON DISULFIDE	75-15-0	42	230	11	ug/Kg	J	J-	C, S
CARBON TETRACHLORIDE	56-23-5	9.3	230	6	ug/Kg	U	UJ	C, S
CHLOROBENZENE	108-90-7	9.3	230	6	ug/Kg	U	UJ	C, S
CHLOROETHANE	75-00-3	93	230	57	ug/Kg	U	UJ	C, S
CHLOROFORM	67-66-3	23	230	8.2	ug/Kg	U	UJ	C, S
CHLOROMETHANE	74-87-3	23	230	13	ug/Kg	U	UJ	C, S
CIS-1,2-DICHLOROETHENE	156-59-2	9.3	230	6.4	ug/Kg	U	UJ	C, S
CIS-1,3-DICHLOROPROPENE	10061-01-5	9.3	230	7.4	ug/Kg	U	UJ	C, S
DIBROMOCHLOROMETHANE	124-48-1	23	230	11	ug/Kg	U	UJ	C, S
ETHYL BENZENE	100-41-4	9.3	230	5	ug/Kg	U	UJ	C, S

Analysis Method 8260B

METHYLENE CHLORIDE	75-09-2	150	230	72	ug/Kg	J	R	*II
STYRENE	100-42-5	9.3	230	5.2	ug/Kg	U	UJ	C, S
TETRACHLOROETHENE	127-18-4	23	230	11	ug/Kg	U	UJ	C, S
TOLUENE	108-88-3	23	230	16	ug/Kg	U	UJ	C, S
TOTAL XYLENES	1330-20-7	28	470	7.6	ug/Kg	U	UJ	C, S
TRANS-1,2-DICHLOROETHENE	156-60-5	23	230	8.6	ug/Kg	U	UJ	C, S
TRANS-1,3-DICHLOROPROPENE	10061-02-6	23	230	19	ug/Kg	U	UJ	C, S
TRICHLOROETHENE	79-01-6	23	230	9.1	ug/Kg	U	UJ	C, S
VINYL CHLORIDE	75-01-4	23	230	17	ug/Kg	U	UJ	C, S

Analysis Method 8270C

Sample Name LL1SB-641M-0101-SO **AnalysisType:** RES

Lab Sample Name: 240-1728-42 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
ACENAPHTHENE	83-32-9	10	6.7	3.3	ug/Kg		J	C
ACENAPHTHYLENE	208-96-8	8.6	6.7	3.3	ug/Kg		J	C
ANTHRACENE	120-12-7	64	6.7	3.3	ug/Kg		J	C
BENZO(A)ANTHRACENE	56-55-3	230	6.7	3.3	ug/Kg			
BENZO(A)PYRENE	50-32-8	190	6.7	3.3	ug/Kg			
BENZO(B)FLUORANTHENE	205-99-2	220	6.7	3.3	ug/Kg	M		
BENZO(G,H,I)PERYLENE	191-24-2	130	6.7	3.3	ug/Kg			
BENZO(K)FLUORANTHENE	207-08-9	160	6.7	3.3	ug/Kg	M		
CHRYSENE	218-01-9	200	6.7	1.1	ug/Kg			
DIBENZO(A,H)ANTHRACENE	53-70-3	30	6.7	3.3	ug/Kg		J	C
FLUORANTHENE	206-44-0	510	6.7	3.3	ug/Kg			
FLUORENE	86-73-7	12	6.7	3.3	ug/Kg		J	C
INDENO(1,2,3-CD)PYRENE	193-39-5	110	6.7	3.3	ug/Kg			
NAPHTHALENE	91-20-3	13	6.7	3.3	ug/Kg		J	C
PHENANTHRENE	85-01-8	220	6.7	3.3	ug/Kg			
PYRENE	129-00-0	370	6.7	3.3	ug/Kg			

Analysis Method 8270C

Sample Name LL2SB-512M-0101-SO **AnalysisType:** RES

Lab Sample Name: 240-1728-1 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
ACENAPHTHENE	83-32-9	8.5	6.8	3.4	ug/Kg			
ACENAPHTHYLENE	208-96-8	25	6.8	3.4	ug/Kg		J	C
ANTHRACENE	120-12-7	32	6.8	3.4	ug/Kg		J	C
BENZO(A)ANTHRACENE	56-55-3	130	6.8	3.4	ug/Kg			
BENZO(A)PYRENE	50-32-8	160	6.8	3.4	ug/Kg			
BENZO(B)FLUORANTHENE	205-99-2	190	6.8	3.4	ug/Kg	M		
BENZO(G,H,I)PERYLENE	191-24-2	84	6.8	3.4	ug/Kg			
BENZO(K)FLUORANTHENE	207-08-9	76	6.8	3.4	ug/Kg	M		
CHRYSENE	218-01-9	120	6.8	1.1	ug/Kg			
DIBENZO(A,H)ANTHRACENE	53-70-3	22	6.8	3.4	ug/Kg	M	J	C
FLUORANTHENE	206-44-0	220	6.8	3.4	ug/Kg			
FLUORENE	86-73-7	13	6.8	3.4	ug/Kg		J	C
INDENO(1,2,3-CD)PYRENE	193-39-5	80	6.8	3.4	ug/Kg			
NAPHTHALENE	91-20-3	7.9	6.8	3.4	ug/Kg		J	C
PHENANTHRENE	85-01-8	100	6.8	3.4	ug/Kg			
PYRENE	129-00-0	200	6.8	3.4	ug/Kg			

Analysis Method 8270C

Sample Name LL2SS-516M-0001-SO **AnalysisType:** RES

Lab Sample Name: 240-1728-14 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
1,2,4-TRICHLOROBENZENE	120-82-1	110	200	110	ug/Kg	U	UJ	C
1,2-DICHLOROBENZENE	95-50-1	110	200	39	ug/Kg	U	UJ	C
1,3-DICHLOROBENZENE	541-73-1	110	200	45	ug/Kg	U J	UJ	C, *III
1,4-DICHLOROBENZENE	106-46-7	110	200	81	ug/Kg	U	UJ	C
2,4,5-TRICHLOROPHENOL	95-95-4	110	610	100	ug/Kg	U	UJ	C
2,4,6-TRICHLOROPHENOL	88-06-2	330	610	330	ug/Kg	U J	UJ	C, *III
2,4-DICHLOROPHENOL	120-83-2	110	610	81	ug/Kg	U	UJ	C
2,4-DIMETHYLPHENOL	105-67-9	330	610	81	ug/Kg	U	UJ	C
2,4-DINITROPHENOL	51-28-5	330	1300	330	ug/Kg	U J	R	Q
2,4-DINITROTOLUENE	121-14-2	110	810	110	ug/Kg	U	U	
2,6-DINITROTOLUENE	606-20-2	110	810	86	ug/Kg	U	UJ	C
2-CHLORONAPHTHALENE	91-58-7	13	200	13	ug/Kg	U	UJ	C
2-CHLOROPHENOL	95-57-8	110	200	110	ug/Kg	U	UJ	C
2-METHYLNAPHTHALENE	91-57-6	45	27	13	ug/Kg		J	C
2-METHYLPHENOL	95-48-7	330	810	330	ug/Kg	U	UJ	C
2-NITROANILINE	88-74-4	110	810	37	ug/Kg	U	UJ	C
2-NITROPHENOL	88-75-5	110	200	110	ug/Kg	U	UJ	C
3,3'-DICHLOROBENZIDINE	91-94-1	330	410	73	ug/Kg	U	UJ	C
3-METHYLPHENOL & 4-METHYL	65794-96-9	330	1600	81	ug/Kg	U	UJ	C
3-NITROANILINE	99-09-2	330	810	65	ug/Kg	U	UJ	C
4,6-DINITRO-2-METHYLPHENOL	534-52-1	330	610	330	ug/Kg	U J	R	Q
4-BROMOPHENYL-PHENYLETHE	101-55-3	110	200	53	ug/Kg	U	UJ	C
4-CHLORO-3-METHYLPHENOL	59-50-7	110	610	86	ug/Kg	U	UJ	C
4-CHLOROANILINE	106-47-8	110	610	69	ug/Kg	U	UJ	C
4-CHLOROPHENYL-PHENYLETH	7005-72-3	110	200	53	ug/Kg	U	UJ	C
4-NITROANILINE	100-01-6	110	810	110	ug/Kg	U	UJ	C
4-NITROPHENOL	100-02-7	330	1300	330	ug/Kg	U	UJ	C
ACENAPHTHENE	83-32-9	110	27	13	ug/Kg		J	C

Analysis Method 8270C

ACENAPHTHYLENE	208-96-8	340	27	13	ug/Kg			
ANTHRACENE	120-12-7	420	27	13	ug/Kg			
BENZO(A)ANTHRACENE	56-55-3	1500	27	13	ug/Kg			
BENZO(A)PYRENE	50-32-8	1600	27	13	ug/Kg	J	J	*III
BENZO(B)FLUORANTHENE	205-99-2	1900	27	13	ug/Kg	M		
BENZO(G,H,I)PERYLENE	191-24-2	870	27	13	ug/Kg			
BENZO(K)FLUORANTHENE	207-08-9	980	27	13	ug/Kg	M		
BENZOIC ACID	65-85-0	1400	2700	1400	ug/Kg	U	R	Q
BENZYL ALCOHOL	100-51-6	110	1300	86	ug/Kg	U	UJ	C
BIS(2-CHLOROETHOXY)METHAN	111-91-1	110	410	90	ug/Kg	U	UJ	C
BIS(2-CHLOROETHYL) ETHER	111-44-4	13	410	8.1	ug/Kg	U	UJ	C
BIS(2-CHLOROISOPROPYL) ETHE	108-60-1	110	410	39	ug/Kg	U	UJ	C
BIS(2-ETHYLHEXYL) PHTHALAT	117-81-7	110	200	77	ug/Kg	U	UJ	C
BUTYLBENZYL PHTHALATE	85-68-7	110	200	41	ug/Kg	U	UJ	C
CARBAZOLE	86-74-8	140	200	110	ug/Kg	J	J	C
CHRYSENE	218-01-9	1400	27	4.5	ug/Kg			
DIBENZO(A,H)ANTHRACENE	53-70-3	240	27	13	ug/Kg		J	C
DIBENZOFURAN	132-64-9	100	200	13	ug/Kg	J	J	C
DIETHYL PHTHALATE	84-66-2	110	200	65	ug/Kg	U	UJ	C
DIMETHYL PHTHALATE	131-11-3	110	200	69	ug/Kg	U	UJ	C
DI-N-BUTYL PHTHALATE	84-74-2	110	200	61	ug/Kg	U	UJ	C
DI-N-OCTYL PHTHALATE	117-84-0	110	200	110	ug/Kg	U	UJ	C
FLUORANTHENE	206-44-0	2900	27	13	ug/Kg	J		
FLUORENE	86-73-7	180	27	13	ug/Kg		J	C
HEXACHLOROBENZENE	118-74-1	13	27	8.6	ug/Kg	U	UJ	C
HEXACHLOROBUTADIENE	87-68-3	110	200	110	ug/Kg	U	UJ	C
HEXACHLOROCYCLOPENTADIE	77-47-4	110	1300	110	ug/Kg	U	UJ	C
HEXACHLOROETHANE	67-72-1	110	200	37	ug/Kg	U J	UJ	C, Q
INDENO(1,2,3-CD)PYRENE	193-39-5	890	27	13	ug/Kg			
ISOPHORONE	78-59-1	75	200	53	ug/Kg	J	J	C
NAPHTHALENE	91-20-3	58	27	13	ug/Kg		J	C
NITROBENZENE	98-95-3	13	410	9	ug/Kg	U	R	D

Analysis Method 8270C

N-NITROSO-DI-N-PROPYLAMINE	621-64-7	110	200	110	ug/Kg	U	UJ	C
N-NITROSODIPHENYLAMINE	86-30-6	110	200	86	ug/Kg	U	UJ	C
PENTACHLOROPHENOL	87-86-5	330	610	330	ug/Kg	U J	R	Q
PHENANTHRENE	85-01-8	1400	27	13	ug/Kg			
PHENOL	108-95-2	110	200	110	ug/Kg	U	UJ	C
PYRENE	129-00-0	2400	27	13	ug/Kg	J		

Sample Name LL2SS-519M-0001-SO **AnalysisType:** RES

Lab Sample Name: 240-1728-13 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
ACENAPHTHENE	83-32-9	37	6.8	3.4	ug/Kg		J	C
ACENAPHTHYLENE	208-96-8	130	6.8	3.4	ug/Kg			
ANTHRACENE	120-12-7	170	6.8	3.4	ug/Kg			
BENZO(A)ANTHRACENE	56-55-3	520	6.8	3.4	ug/Kg			
BENZO(A)PYRENE	50-32-8	590	6.8	3.4	ug/Kg			
BENZO(B)FLUORANTHENE	205-99-2	630	6.8	3.4	ug/Kg	M		
BENZO(G,H,I)PERYLENE	191-24-2	430	6.8	3.4	ug/Kg			
BENZO(K)FLUORANTHENE	207-08-9	410	6.8	3.4	ug/Kg	M		
CHRYSENE	218-01-9	550	6.8	1.1	ug/Kg			
DIBENZO(A,H)ANTHRACENE	53-70-3	97	6.8	3.4	ug/Kg			
FLUORANTHENE	206-44-0	1100	6.8	3.4	ug/Kg			
FLUORENE	86-73-7	76	6.8	3.4	ug/Kg			
INDENO(1,2,3-CD)PYRENE	193-39-5	400	6.8	3.4	ug/Kg			
NAPHTHALENE	91-20-3	30	6.8	3.4	ug/Kg		J	C
PHENANTHRENE	85-01-8	560	6.8	3.4	ug/Kg			
PYRENE	129-00-0	850	6.8	3.4	ug/Kg			

Analysis Method 8270C

Sample Name LL3SD-416M-0001-SD **AnalysisType:** RES

Lab Sample Name: 240-1728-4 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
1,2,4-TRICHLOROBENZENE	120-82-1	550	1000	550	ug/Kg	U Q	UJ	C, L
1,2-DICHLOROBENZENE	95-50-1	550	1000	200	ug/Kg	U Q	UJ	C, L
1,3-DICHLOROBENZENE	541-73-1	550	1000	220	ug/Kg	U Q	UJ	C, L
1,4-DICHLOROBENZENE	106-46-7	550	1000	410	ug/Kg	U	UJ	C
2,4,5-TRICHLOROPHENOL	95-95-4	550	3100	510	ug/Kg	U Q	UJ	C, L
2,4,6-TRICHLOROPHENOL	88-06-2	1600	3100	1600	ug/Kg	U Q	UJ	C, L
2,4-DICHLOROPHENOL	120-83-2	550	3100	410	ug/Kg	U	UJ	C
2,4-DIMETHYLPHENOL	105-67-9	1600	3100	410	ug/Kg	U	UJ	C
2,4-DINITROPHENOL	51-28-5	1600	6700	1600	ug/Kg	U	UJ	C
2,4-DINITROTOLUENE	121-14-2	550	4100	550	ug/Kg	U	R	D
2,6-DINITROTOLUENE	606-20-2	550	4100	430	ug/Kg	U	R	D
2-CHLORONAPHTHALENE	91-58-7	67	1000	67	ug/Kg	U	UJ	C
2-CHLOROPHENOL	95-57-8	550	1000	550	ug/Kg	U	UJ	C
2-METHYLNAPHTHALENE	91-57-6	67	140	67	ug/Kg	U	UJ	C
2-METHYLPHENOL	95-48-7	1600	4100	1600	ug/Kg	U	UJ	C
2-NITROANILINE	88-74-4	550	4100	190	ug/Kg	U	UJ	C
2-NITROPHENOL	88-75-5	550	1000	550	ug/Kg	U	UJ	C
3,3'-DICHLOROBENZIDINE	91-94-1	1600	2000	370	ug/Kg	U	UJ	C
3-METHYLPHENOL & 4-METHYL	65794-96-9	1600	8200	410	ug/Kg	U	UJ	C
3-NITROANILINE	99-09-2	1600	4100	330	ug/Kg	U	UJ	C
4,6-DINITRO-2-METHYLPHENOL	534-52-1	1600	3100	1600	ug/Kg	U	UJ	C
4-BROMOPHENYL-PHENYLETHE	101-55-3	550	1000	270	ug/Kg	U	UJ	C
4-CHLORO-3-METHYLPHENOL	59-50-7	550	3100	430	ug/Kg	U	UJ	C
4-CHLOROANILINE	106-47-8	550	3100	350	ug/Kg	U	UJ	C
4-CHLOROPHENYL-PHENYLETH	7005-72-3	550	1000	270	ug/Kg	U	UJ	C
4-NITROANILINE	100-01-6	550	4100	530	ug/Kg	U	UJ	C
4-NITROPHENOL	100-02-7	1600	6700	1600	ug/Kg	U	UJ	C
ACENAPHTHENE	83-32-9	360	140	67	ug/Kg	D	J	C

Analysis Method 8270C

ACENAPHTHYLENE	208-96-8	1600	140	67	ug/Kg	D		
ANTHRACENE	120-12-7	3100	140	67	ug/Kg	D		
BENZO(A)ANTHRACENE	56-55-3	8600	140	67	ug/Kg	D		
BENZO(A)PYRENE	50-32-8	6800	140	67	ug/Kg	D		
BENZO(B)FLUORANTHENE	205-99-2	9100	140	67	ug/Kg	D M		
BENZO(G,H,I)PERYLENE	191-24-2	4200	140	67	ug/Kg	D		
BENZO(K)FLUORANTHENE	207-08-9	5000	140	67	ug/Kg	D M		
BENZOIC ACID	65-85-0	6800	13000	6800	ug/Kg	U	UJ	C
BENZYL ALCOHOL	100-51-6	550	6700	430	ug/Kg	U	UJ	C
BIS(2-CHLOROETHOXY)METHAN	111-91-1	550	2000	450	ug/Kg	U	UJ	C
BIS(2-CHLOROETHYL) ETHER	111-44-4	67	2000	41	ug/Kg	U	UJ	C
BIS(2-CHLOROISOPROPYL) ETHE	108-60-1	550	2000	190	ug/Kg	U	UJ	C
BIS(2-ETHYLHEXYL) PHTHALAT	117-81-7	550	1000	390	ug/Kg	U	UJ	C
BUTYLBENZYL PHTHALATE	85-68-7	550	1000	200	ug/Kg	U	UJ	C
CARBAZOLE	86-74-8	1100	1000	550	ug/Kg	D	J	C
CHRYSENE	218-01-9	8200	140	22	ug/Kg	D		
DIBENZO(A,H)ANTHRACENE	53-70-3	1200	140	67	ug/Kg	D	J	C
DIBENZOFURAN	132-64-9	550	1000	67	ug/Kg	J D	J	C
DIETHYL PHTHALATE	84-66-2	550	1000	330	ug/Kg	U	UJ	C
DIMETHYL PHTHALATE	131-11-3	550	1000	350	ug/Kg	U	UJ	C
DI-N-BUTYL PHTHALATE	84-74-2	550	1000	310	ug/Kg	U	UJ	C
DI-N-OCTYL PHTHALATE	117-84-0	550	1000	550	ug/Kg	U	UJ	C
FLUORANTHENE	206-44-0	19000	140	67	ug/Kg	D		
FLUORENE	86-73-7	1000	140	67	ug/Kg	D		
HEXACHLOROBENZENE	118-74-1	67	140	43	ug/Kg	U	UJ	C
HEXACHLOROBUTADIENE	87-68-3	550	1000	550	ug/Kg	U Q	UJ	C, L
HEXACHLOROCYCLOPENTADIE	77-47-4	550	6700	550	ug/Kg	U	UJ	C
HEXACHLOROETHANE	67-72-1	550	1000	180	ug/Kg	U	UJ	C
INDENO(1,2,3-CD)PYRENE	193-39-5	4100	140	67	ug/Kg	D		
ISOPHORONE	78-59-1	550	1000	270	ug/Kg	U	UJ	C
NAPHTHALENE	91-20-3	170	140	67	ug/Kg	D	J	C
NITROBENZENE	98-95-3	67	2000	45	ug/Kg	U	R	D

Analysis Method 8270C

N-NITROSO-DI-N-PROPYLAMINE	621-64-7	550	1000	550	ug/Kg	U	UJ	C
N-NITROSODIPHENYLAMINE	86-30-6	550	1000	430	ug/Kg	U	UJ	C
PENTACHLOROPHENOL	87-86-5	1600	3100	1600	ug/Kg	U	UJ	C
PHENANTHRENE	85-01-8	9200	140	67	ug/Kg	D		
PHENOL	108-95-2	550	1000	550	ug/Kg	U	UJ	C
PYRENE	129-00-0	13000	140	67	ug/Kg	D		

Sample Name LL3SS-419M-0001-SO **AnalysisType:** RES

Lab Sample Name: 240-1728-8 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
ACENAPHTHENE	83-32-9	100	13	6.7	ug/Kg			
ACENAPHTHYLENE	208-96-8	6.7	13	6.7	ug/Kg	U	UJ	C
ANTHRACENE	120-12-7	300	13	6.7	ug/Kg	J	J-	Q
BENZO(A)ANTHRACENE	56-55-3	480	13	6.7	ug/Kg	J	J-	Q
BENZO(A)PYRENE	50-32-8	400	13	6.7	ug/Kg	J	J-	Q
BENZO(B)FLUORANTHENE	205-99-2	440	13	6.7	ug/Kg	M J	J-	Q
BENZO(G,H,I)PERYLENE	191-24-2	250	13	6.7	ug/Kg	J		
BENZO(K)FLUORANTHENE	207-08-9	290	13	6.7	ug/Kg	M J	J-	Q
CHRYSENE	218-01-9	470	13	2.2	ug/Kg	J	J-	Q
DIBENZO(A,H)ANTHRACENE	53-70-3	56	13	6.7	ug/Kg		J	C
FLUORANTHENE	206-44-0	1200	13	6.7	ug/Kg	J	R	Q
FLUORENE	86-73-7	120	13	6.7	ug/Kg	J	J	C
INDENO(1,2,3-CD)PYRENE	193-39-5	220	13	6.7	ug/Kg	J		
NAPHTHALENE	91-20-3	79	13	6.7	ug/Kg		J	C
PHENANTHRENE	85-01-8	990	13	6.7	ug/Kg	J	R	Q
PYRENE	129-00-0	930	13	6.7	ug/Kg	J	R	Q

Analysis Method 8330

Sample Name LL2SS-516M-0001-SO **AnalysisType:** RES/WET

Lab Sample Name: 240-1728-14 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
1,3,5-TRINITROBENZENE	99-35-4	0.25	0.25	0.02	mg/kg	U	U	
1,3-DINITROBENZENE	99-65-0	0.25	0.25	0.05	mg/kg	U	U	
2,4,6-TRINITROTOLUENE	118-96-7	0.25	0.25	0.02	mg/kg	U	U	
2,4-DINITROTOLUENE	121-14-2	0.25	0.25	0.02	mg/kg	U	U	
2,6-DINITROTOLUENE	606-20-2	0.25	0.25	0.03	mg/kg	U	R	D
2-AMINO-4,6-DINITROTOLUENE	35572-78-2	0.25	0.25	0.1	mg/kg	U	U	
2-NITROTOLUENE	88-72-2	0.25	0.25	0.08	mg/kg	U	U	
3-NITROTOLUENE	99-08-1	0.25	0.25	0.07	mg/kg	U	U	
4-AMINO-2,6-DINITROTOLUENE	19406-51-0	0.25	0.25	0.02	mg/kg	U	U	
4-NITROTOLUENE	99-99-0	0.25	0.25	0.08	mg/kg	U	U	
HEXAHYDRO-1,3,5-TRINITRO-1,3,	121-82-4	0.25	0.25	0.04	mg/kg	U	U	
METHYL-2,4,6-TRINITROPHENYL	479-45-8	0.25	0.25	0.05	mg/kg	U	U	
NITROBENZENE	98-95-3	0.25	0.25	0.05	mg/kg	U	U	
NITROGLYCERINE	55-63-0	0.5	0.5	0.13	mg/kg	U	U	
OCTAHYDRO-TETRANITRO-1,3,5,	2691-41-0	0.25	0.25	0.03	mg/kg	U	U	
PETN	78-11-5	0.5	0.5	0.16	mg/kg	U	U	

Analysis Method 8330

Sample Name LL3SD-416M-0001-SD **AnalysisType:** DL/WET

Lab Sample Name: 240-1728-4 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
1,3,5-TRINITROBENZENE	99-35-4	0.031	0.25	0.02	mg/kg	J PG	NJ	*III
1,3-DINITROBENZENE	99-65-0	0.25	0.25	0.05	mg/kg	U	U	
2,4,6-TRINITROTOLUENE	118-96-7	0.32	0.25	0.02	mg/kg			
2,4-DINITROTOLUENE	121-14-2	0.25	0.25	0.02	mg/kg	U	R	D
2,6-DINITROTOLUENE	606-20-2	0.25	0.25	0.03	mg/kg	U	U	
2-AMINO-4,6-DINITROTOLUENE	35572-78-2	0.25	0.25	0.099	mg/kg	U	U	
2-NITROTOLUENE	88-72-2	0.25	0.25	0.079	mg/kg	U	U	
3-NITROTOLUENE	99-08-1	0.25	0.25	0.069	mg/kg	U	U	
4-AMINO-2,6-DINITROTOLUENE	19406-51-0	0.25	0.25	0.02	mg/kg	U	U	
4-NITROTOLUENE	99-99-0	0.25	0.25	0.079	mg/kg	U	U	
HEXAHYDRO-1,3,5-TRINITRO-1,3,	121-82-4	0.25	0.25	0.04	mg/kg	U	UJ	C
METHYL-2,4,6-TRINITROPHENYL	479-45-8	0.12	0.25	0.05	mg/kg	J PG	NJ	*III
NITROBENZENE	98-95-3	0.11	0.25	0.05	mg/kg	J PG	NJ	*III
NITROGLYCERINE	55-63-0	0.5	0.5	0.13	mg/kg	U	U	
OCTAHYDRO-TETRANITRO-1,3,5,	2691-41-0	0.25	0.25	0.03	mg/kg	U	U	
PETN	78-11-5	0.5	0.5	0.16	mg/kg	U	U	

Analysis Method 8330 MODIFIED

Sample Name LL2SS-516M-0001-SO **AnalysisType:** DL/WET

Lab Sample Name: 240-1728-14 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
NITROGUANIDINE	556-88-7	0.24	0.24	0.02	mg/kg	U	U	

Sample Name LL3SD-416M-0001-SD **AnalysisType:** DL/WET

Lab Sample Name: 240-1728-4 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
NITROGUANIDINE	556-88-7	0.24	0.24	0.02	mg/kg	U	U	

Analysis Method WS-WC-0050

Sample Name LL2SS-516M-0001-SO **AnalysisType:** RES/TOT

Lab Sample Name: 240-1728-14 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
NITROCELLULOSE	9004-70-0	0.85	5.1	0.79	mg/kg	J	J-	Q

Sample Name LL3SD-416M-0001-SD **AnalysisType:** RES/TOT

Lab Sample Name: 240-1728-4 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
NITROCELLULOSE	9004-70-0	1.4	5.1	0.8	mg/kg	J	J-	Q

Validated Sample Result Forms: 240-1728-1

Analysis Method 6020

Sample Name LL2SS-516M-0001-SO **AnalysisType:** RE3/TOT

Lab Sample Name: 240-1728-14 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
ALUMINUM	7429-90-5	8100	9.9	2.5	mg/Kg	J	J-	A
ANTIMONY	7440-36-0	0.15	0.19	0.059	mg/Kg	J	J	Q
ARSENIC	7440-38-2	10	0.48	0.05	mg/Kg		J-	Q
BARIUM	7440-39-3	79	0.48	0.12	mg/Kg	J		
BERYLLIUM	7440-41-7	0.86	0.48	0.017	mg/Kg	D		
CADMIUM	7440-43-9	0.27	0.95	0.015	mg/Kg	J D		
CALCIUM	7440-70-2	17000	200	40	mg/Kg	J	J-	A
CHROMIUM	7440-47-3	27	0.48	0.15	mg/Kg		J-	Q
COBALT	7440-48-4	8.3	0.48	0.021	mg/Kg	D	J-	Q
COPPER	7440-50-8	19	0.38	0.1	mg/Kg		J-	Q
IRON	7439-89-6	20000	49	11	mg/Kg	J	J	Q
LEAD	7439-92-1	35	0.29	0.067	mg/Kg		J-	Q
MAGNESIUM	7439-95-4	4100	99	8.8	mg/Kg			
MANGANESE	7439-96-5	670	2.4	0.76	mg/Kg	D J	J-	Q
NICKEL	7440-02-0	26	0.48	0.082	mg/Kg		J-	Q
POTASSIUM	7440-09-7	1100	99	3.7	mg/Kg			
SELENIUM	7782-49-2	1.2	0.48	0.02	mg/Kg		J-	Q, M
SILVER	7440-22-4	0.24	0.48	0.076	mg/Kg	U	R	C
SODIUM	7440-23-5	160	99	14	mg/Kg			
THALLIUM	7440-28-0	0.17	0.19	0.054	mg/Kg	J	J	
VANADIUM	7440-62-2	15	0.48	0.041	mg/Kg			
ZINC	7440-66-6	88	19	4.8	mg/Kg	D J	J-	Q

Analysis Method 6020

Sample Name LL3SD-416M-0001-SD **AnalysisType:** RES/TOT

Lab Sample Name: 240-1728-4 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
ALUMINUM	7429-90-5	10000	86	22	mg/Kg	D	J-	A
ANTIMONY	7440-36-0	1.4	0.17	0.054	mg/Kg		J-	Q
ARSENIC	7440-38-2	14	0.43	0.045	mg/Kg		J-	Q
BARIUM	7440-39-3	150	0.43	0.11	mg/Kg		J-	Q
BERYLLIUM	7440-41-7	1.3	0.86	0.03	mg/Kg	D		
CADMIUM	7440-43-9	1	1.7	0.027	mg/Kg	J D	J-	Q, A
CALCIUM	7440-70-2	15000	1700	350	mg/Kg	D	J-	A
CHROMIUM	7440-47-3	26	0.43	0.14	mg/Kg		J-	Q
COBALT	7440-48-4	21	0.86	0.039	mg/Kg	D	J-	Q
COPPER	7440-50-8	9.6	0.35	0.095	mg/Kg		J-	Q
IRON	7439-89-6	24000	43	9.4	mg/Kg			
LEAD	7439-92-1	23	0.26	0.061	mg/Kg		J-	Q
MAGNESIUM	7439-95-4	3400	86	7.7	mg/Kg			
MANGANESE	7439-96-5	3700	4.3	1.4	mg/Kg	D	J-	Q
NICKEL	7440-02-0	28	0.43	0.075	mg/Kg		J-	Q
POTASSIUM	7440-09-7	730	86	3.3	mg/Kg			
SELENIUM	7782-49-2	1.1	0.43	0.018	mg/Kg		J-	Q, M
SILVER	7440-22-4	0.43	0.86	0.14	mg/Kg	U	R	C
SODIUM	7440-23-5	110	86	12	mg/Kg		U	F
THALLIUM	7440-28-0	0.16	0.17	0.049	mg/Kg	J	J	*III
VANADIUM	7440-62-2	23	0.43	0.037	mg/Kg			
ZINC	7440-66-6	160	35	8.6	mg/Kg	D	J-	Q

Analysis Method 7196A

Sample Name LL2SS-516M-0001-SO **AnalysisType:** RES/TOT

Lab Sample Name: 240-1728-14 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
HEXAVALENT CHROMIUM	18540-29-9	0.45	0.82	0.28	mg/Kg	J	J-	B, H, C

Sample Name LL3SD-416M-0001-SD **AnalysisType:** RES/TOT

Lab Sample Name: 240-1728-4 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
HEXAVALENT CHROMIUM	18540-29-9	0.46	0.82	0.28	mg/Kg	J	J-	B, H, C

Analysis Method 7471A

Sample Name LL2SS-516M-0001-SO **AnalysisType:** RES/TOT

Lab Sample Name: 240-1728-14 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
MERCURY	7439-97-6	0.023	0.1	0.014	mg/Kg	J	J	

Sample Name LL3SD-416M-0001-SD **AnalysisType:** RES/TOT

Lab Sample Name: 240-1728-4 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
MERCURY	7439-97-6	0.3	0.085	0.012	mg/Kg			

Analysis Method 8081A

Sample Name LL2SS-516M-0001-SO **AnalysisType:** RES

Lab Sample Name: 240-1728-14 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
4,4'-DDD	72-54-8	14	41	13	ug/Kg	U	UJ	C
4,4'-DDE	72-55-9	19	35	7.9	ug/Kg	J D	J	C
4,4'-DDT	50-29-3	14	41	13	ug/Kg	U	UJ	C
ALDRIN	309-00-2	27	81	24	ug/Kg	U	UJ	C
ALPHA-BHC	319-84-6	27	51	15	ug/Kg	U J	UJ	C
ALPHA-CHLORDANE	5103-71-9	27	61	19	ug/Kg	U J	UJ	C
BETA-BHC	319-85-7	27	71	22	ug/Kg	U J	UJ	C
DELTA-BHC	319-86-8	27	81	24	ug/Kg	U	UJ	C
DIELDRIN	60-57-1	14	35	9.6	ug/Kg	U J	UJ	C
ENDOSULFAN I	959-98-8	14	35	11	ug/Kg	U	UJ	C
ENDOSULFAN II	33213-65-9	27	51	17	ug/Kg	U	UJ	C
ENDOSULFAN SULFATE	1031-07-8	27	61	18	ug/Kg	U	UJ	C
ENDRIN	72-20-8	14	35	10	ug/Kg	U J	UJ	C
ENDRIN ALDEHYDE	7421-93-4	27	61	20	ug/Kg	U	UJ	C
ENDRIN KETONE	53494-70-5	14	41	13	ug/Kg	U J	UJ	C
GAMMA-BHC	58-89-9	27	51	15	ug/Kg	U J	UJ	C
GAMMA-CHLORDANE	5103-74-2	9.9	35	8.6	ug/Kg	D J	NJ	C, *III
HEPTACHLOR	76-44-8	27	71	22	ug/Kg	U J	UJ	C
HEPTACHLOR EPOXIDE	1024-57-3	27	51	16	ug/Kg	U J	UJ	C
METHOXYCHLOR	72-43-5	67	100	31	ug/Kg	U J	UJ	C
TOXAPHENE	8001-35-2	410	1400	390	ug/Kg	U M	UJ	C

Analysis Method 8081A

Sample Name LL3SD-416M-0001-SD **AnalysisType:** RES

Lab Sample Name: 240-1728-4 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
4,4'-DDD	72-54-8	34	100	32	ug/Kg	U	UJ	C
4,4'-DDE	72-55-9	34	87	20	ug/Kg	U	UJ	C
4,4'-DDT	50-29-3	34	100	32	ug/Kg	U	UJ	C
ALDRIN	309-00-2	68	200	61	ug/Kg	U	UJ	C
ALPHA-BHC	319-84-6	68	130	37	ug/Kg	U Q	UJ	C
ALPHA-CHLORDANE	5103-71-9	68	150	48	ug/Kg	U	UJ	C
BETA-BHC	319-85-7	130	180	56	ug/Kg	J D	J	C, *III
DELTA-BHC	319-86-8	68	200	61	ug/Kg	U	UJ	C
DIELDRIN	60-57-1	34	87	24	ug/Kg	U	UJ	C
ENDOSULFAN I	959-98-8	34	87	27	ug/Kg	U	UJ	C
ENDOSULFAN II	33213-65-9	68	130	42	ug/Kg	U	UJ	C
ENDOSULFAN SULFATE	1031-07-8	68	150	44	ug/Kg	U	UJ	C
ENDRIN	72-20-8	34	87	25	ug/Kg	U	UJ	C
ENDRIN ALDEHYDE	7421-93-4	68	150	51	ug/Kg	U	UJ	C
ENDRIN KETONE	53494-70-5	34	100	32	ug/Kg	U	UJ	C
GAMMA-BHC	58-89-9	68	130	38	ug/Kg	U Q	UJ	C
GAMMA-CHLORDANE	5103-74-2	34	87	21	ug/Kg	U Q	UJ	C
HEPTACHLOR	76-44-8	68	180	56	ug/Kg	U	UJ	C
HEPTACHLOR EPOXIDE	1024-57-3	68	130	41	ug/Kg	U	UJ	C
METHOXYCHLOR	72-43-5	170	250	76	ug/Kg	U	UJ	C
TOXAPHENE	8001-35-2	1000	3400	970	ug/Kg	U M	UJ	C

Analysis Method 8082

Sample Name LL2SS-516M-0001-SO **AnalysisType:** RES

Lab Sample Name: 240-1728-14 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
AROCLOR 1016	12674-11-2	130	330	110	ug/Kg	U	UJ	C
AROCLOR 1221	11104-28-2	130	250	81	ug/Kg	U	UJ	C
AROCLOR 1232	11141-16-5	130	230	71	ug/Kg	U	UJ	C
AROCLOR 1242	53469-21-9	130	200	66	ug/Kg	U	UJ	C
AROCLOR 1248	12672-29-6	130	280	87	ug/Kg	U	UJ	C
AROCLOR 1254	11097-69-1	670	280	87	ug/Kg	D	J	C, Q, S
AROCLOR 1260	11096-82-5	130	280	87	ug/Kg	U J	UJ	C

Sample Name LL2SS-519M-0001-SO **AnalysisType:** RES

Lab Sample Name: 240-1728-13 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
AROCLOR 1016	12674-11-2	130	330	110	ug/Kg	U	UJ	C
AROCLOR 1221	11104-28-2	130	250	82	ug/Kg	U	UJ	C
AROCLOR 1232	11141-16-5	130	230	71	ug/Kg	U	UJ	C
AROCLOR 1242	53469-21-9	130	200	66	ug/Kg	U	UJ	C
AROCLOR 1248	12672-29-6	130	280	87	ug/Kg	U	UJ	C
AROCLOR 1254	11097-69-1	490	280	87	ug/Kg	D	J	C, S
AROCLOR 1260	11096-82-5	130	280	87	ug/Kg	U	UJ	C

Analysis Method 8082

Sample Name LL3SD-416M-0001-SD **AnalysisType:** RES

Lab Sample Name: 240-1728-4 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
AROCLOR 1016	12674-11-2	25	66	21	ug/Kg	U	UJ	C
AROCLOR 1221	11104-28-2	25	51	16	ug/Kg	U	UJ	C
AROCLOR 1232	11141-16-5	25	46	14	ug/Kg	U	UJ	C
AROCLOR 1242	53469-21-9	25	41	13	ug/Kg	U	UJ	C
AROCLOR 1248	12672-29-6	25	56	17	ug/Kg	U	UJ	C
AROCLOR 1254	11097-69-1	44	56	17	ug/Kg	J	J	C, S
AROCLOR 1260	11096-82-5	25	56	17	ug/Kg	U	UJ	C

Analysis Method 8260B

Sample Name LL2SS-516V-0001-SO **AnalysisType:** RES

Lab Sample Name: 240-1728-15 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
1,1,1-TRICHLOROETHANE	71-55-6	9.2	230	19	ug/Kg	U	UJ	C, S
1,1,2,2-TETRACHLOROETHANE	79-34-5	23	230	8.2	ug/Kg	U	UJ	C, S
1,1,2-TRICHLOROETHANE	79-00-5	23	230	11	ug/Kg	U	UJ	C, S
1,1-DICHLOROETHANE	75-34-3	23	230	16	ug/Kg	U	UJ	C, S
1,1-DICHLOROETHENE	75-35-4	23	230	16	ug/Kg	U	UJ	C, S
1,2-DIBROMOETHANE	106-93-4	23	230	9.2	ug/Kg	U	UJ	C, S
1,2-DICHLOROETHANE	107-06-2	23	230	9.2	ug/Kg	U	UJ	C, S
1,2-DICHLOROETHENE (TOTAL)	540-59-0	7.5	460	7.5	ug/Kg	U	UJ	C, S
1,2-DICHLOROPROPANE	78-87-5	9.2	230	7.5	ug/Kg	U	UJ	C, S
2-BUTANONE	78-93-3	92	920	39	ug/Kg	U	UJ	C, S
2-HEXANONE	591-78-6	46	920	18	ug/Kg	U	UJ	C, S
4-METHYL-2-PENTANONE	108-10-1	92	920	44	ug/Kg	U	UJ	C, S
ACETONE	67-64-1	180	920	160	ug/Kg	U	UJ	C, S
BENZENE	71-43-2	23	230	11	ug/Kg	U	UJ	C, S
BROMOCHLOROMETHANE	74-97-5	23	230	12	ug/Kg	U	UJ	C, S
BROMODICHLOROMETHANE	75-27-4	23	230	9.1	ug/Kg	U J	UJ	C, Q, S
BROMOFORM	75-25-2	23	230	17	ug/Kg	U	UJ	C, S
BROMOMETHANE	74-83-9	46	230	27	ug/Kg	U	UJ	C, S
CARBON DISULFIDE	75-15-0	23	230	11	ug/Kg	U	UJ	C, S
CARBON TETRACHLORIDE	56-23-5	9.2	230	5.9	ug/Kg	U	UJ	C, S
CHLOROBENZENE	108-90-7	9.2	230	5.9	ug/Kg	U	UJ	C, S
CHLOROETHANE	75-00-3	92	230	56	ug/Kg	U	UJ	C, S
CHLOROFORM	67-66-3	23	230	8.1	ug/Kg	U	UJ	C, S
CHLOROMETHANE	74-87-3	23	230	13	ug/Kg	U	UJ	C, S
CIS-1,2-DICHLOROETHENE	156-59-2	9.2	230	6.3	ug/Kg	U	UJ	C, S
CIS-1,3-DICHLOROPROPENE	10061-01-5	9.2	230	7.2	ug/Kg	U J	UJ	C, Q, S
DIBROMOCHLOROMETHANE	124-48-1	23	230	11	ug/Kg	U	UJ	C, S
ETHYL BENZENE	100-41-4	9.2	230	4.9	ug/Kg	U	UJ	C, S

Analysis Method 8260B

METHYLENE CHLORIDE	75-09-2	200	230	71	ug/Kg	J	R	*II
STYRENE	100-42-5	9.2	230	5.1	ug/Kg	U J	UJ	C, Q, S
TETRACHLOROETHENE	127-18-4	23	230	11	ug/Kg	U	UJ	C, S
TOLUENE	108-88-3	23	230	16	ug/Kg	U	UJ	C, S
TOTAL XYLENES	1330-20-7	27	460	7.4	ug/Kg	U	UJ	C, Q, S
TRANS-1,2-DICHLOROETHENE	156-60-5	23	230	8.4	ug/Kg	U	UJ	C, S
TRANS-1,3-DICHLOROPROPENE	10061-02-6	23	230	18	ug/Kg	U J	UJ	C, Q, S
TRICHLOROETHENE	79-01-6	23	230	8.9	ug/Kg	U	UJ	C, S
VINYL CHLORIDE	75-01-4	23	230	16	ug/Kg	U J	UJ	C, Q, S

Analysis Method 8260B

Sample Name LL3SD-416V-0001-SD **AnalysisType:** RES

Lab Sample Name: 240-1728-5 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
1,1,1-TRICHLOROETHANE	71-55-6	9.3	230	20	ug/Kg	U	UJ	C, S
1,1,2,2-TETRACHLOROETHANE	79-34-5	23	230	8.3	ug/Kg	U	UJ	C, S
1,1,2-TRICHLOROETHANE	79-00-5	23	230	11	ug/Kg	U	UJ	C, S
1,1-DICHLOROETHANE	75-34-3	23	230	16	ug/Kg	U	UJ	C, S
1,1-DICHLOROETHENE	75-35-4	23	230	17	ug/Kg	U	UJ	C, S
1,2-DIBROMOETHANE	106-93-4	23	230	9.3	ug/Kg	U	UJ	C, S
1,2-DICHLOROETHANE	107-06-2	23	230	9.3	ug/Kg	U	UJ	C, S
1,2-DICHLOROETHENE (TOTAL)	540-59-0	7.7	470	7.7	ug/Kg	U	UJ	C, S
1,2-DICHLOROPROPANE	78-87-5	9.3	230	7.7	ug/Kg	U	UJ	C, S
2-BUTANONE	78-93-3	93	930	40	ug/Kg	U	UJ	C, S
2-HEXANONE	591-78-6	47	930	19	ug/Kg	U	UJ	C, S
4-METHYL-2-PENTANONE	108-10-1	93	930	45	ug/Kg	U	UJ	C, S
ACETONE	67-64-1	190	930	160	ug/Kg	U	UJ	C, S
BENZENE	71-43-2	23	230	11	ug/Kg	U	UJ	C, S
BROMOCHLOROMETHANE	74-97-5	23	230	12	ug/Kg	U	UJ	C, S
BROMODICHLOROMETHANE	75-27-4	23	230	9.2	ug/Kg	U	UJ	C, S
BROMOFORM	75-25-2	23	230	18	ug/Kg	U	UJ	C, S
BROMOMETHANE	74-83-9	47	230	27	ug/Kg	U	UJ	C, S
CARBON DISULFIDE	75-15-0	42	230	11	ug/Kg	J	J-	C, S
CARBON TETRACHLORIDE	56-23-5	9.3	230	6	ug/Kg	U	UJ	C, S
CHLOROBENZENE	108-90-7	9.3	230	6	ug/Kg	U	UJ	C, S
CHLOROETHANE	75-00-3	93	230	57	ug/Kg	U	UJ	C, S
CHLOROFORM	67-66-3	23	230	8.2	ug/Kg	U	UJ	C, S
CHLOROMETHANE	74-87-3	23	230	13	ug/Kg	U	UJ	C, S
CIS-1,2-DICHLOROETHENE	156-59-2	9.3	230	6.4	ug/Kg	U	UJ	C, S
CIS-1,3-DICHLOROPROPENE	10061-01-5	9.3	230	7.4	ug/Kg	U	UJ	C, S
DIBROMOCHLOROMETHANE	124-48-1	23	230	11	ug/Kg	U	UJ	C, S
ETHYL BENZENE	100-41-4	9.3	230	5	ug/Kg	U	UJ	C, S

Analysis Method 8260B

METHYLENE CHLORIDE	75-09-2	150	230	72	ug/Kg	J	R	*II
STYRENE	100-42-5	9.3	230	5.2	ug/Kg	U	UJ	C, S
TETRACHLOROETHENE	127-18-4	23	230	11	ug/Kg	U	UJ	C, S
TOLUENE	108-88-3	23	230	16	ug/Kg	U	UJ	C, S
TOTAL XYLENES	1330-20-7	28	470	7.6	ug/Kg	U	UJ	C, S
TRANS-1,2-DICHLOROETHENE	156-60-5	23	230	8.6	ug/Kg	U	UJ	C, S
TRANS-1,3-DICHLOROPROPENE	10061-02-6	23	230	19	ug/Kg	U	UJ	C, S
TRICHLOROETHENE	79-01-6	23	230	9.1	ug/Kg	U	UJ	C, S
VINYL CHLORIDE	75-01-4	23	230	17	ug/Kg	U	UJ	C, S

Analysis Method 8270C

Sample Name LL1SB-641M-0101-SO **AnalysisType:** RES

Lab Sample Name: 240-1728-42 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
ACENAPHTHENE	83-32-9	10	6.7	3.3	ug/Kg		J	C
ACENAPHTHYLENE	208-96-8	8.6	6.7	3.3	ug/Kg		J	C
ANTHRACENE	120-12-7	64	6.7	3.3	ug/Kg		J	C
BENZO(A)ANTHRACENE	56-55-3	230	6.7	3.3	ug/Kg			
BENZO(A)PYRENE	50-32-8	190	6.7	3.3	ug/Kg			
BENZO(B)FLUORANTHENE	205-99-2	220	6.7	3.3	ug/Kg	M		
BENZO(G,H,I)PERYLENE	191-24-2	130	6.7	3.3	ug/Kg			
BENZO(K)FLUORANTHENE	207-08-9	160	6.7	3.3	ug/Kg	M		
CHRYSENE	218-01-9	200	6.7	1.1	ug/Kg			
DIBENZO(A,H)ANTHRACENE	53-70-3	30	6.7	3.3	ug/Kg		J	C
FLUORANTHENE	206-44-0	510	6.7	3.3	ug/Kg			
FLUORENE	86-73-7	12	6.7	3.3	ug/Kg		J	C
INDENO(1,2,3-CD)PYRENE	193-39-5	110	6.7	3.3	ug/Kg			
NAPHTHALENE	91-20-3	13	6.7	3.3	ug/Kg		J	C
PHENANTHRENE	85-01-8	220	6.7	3.3	ug/Kg			
PYRENE	129-00-0	370	6.7	3.3	ug/Kg			

Analysis Method 8270C

Sample Name LL2SB-512M-0101-SO **AnalysisType:** RES

Lab Sample Name: 240-1728-1 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
ACENAPHTHENE	83-32-9	8.5	6.8	3.4	ug/Kg			
ACENAPHTHYLENE	208-96-8	25	6.8	3.4	ug/Kg		J	C
ANTHRACENE	120-12-7	32	6.8	3.4	ug/Kg		J	C
BENZO(A)ANTHRACENE	56-55-3	130	6.8	3.4	ug/Kg			
BENZO(A)PYRENE	50-32-8	160	6.8	3.4	ug/Kg			
BENZO(B)FLUORANTHENE	205-99-2	190	6.8	3.4	ug/Kg	M		
BENZO(G,H,I)PERYLENE	191-24-2	84	6.8	3.4	ug/Kg			
BENZO(K)FLUORANTHENE	207-08-9	76	6.8	3.4	ug/Kg	M		
CHRYSENE	218-01-9	120	6.8	1.1	ug/Kg			
DIBENZO(A,H)ANTHRACENE	53-70-3	22	6.8	3.4	ug/Kg	M	J	C
FLUORANTHENE	206-44-0	220	6.8	3.4	ug/Kg			
FLUORENE	86-73-7	13	6.8	3.4	ug/Kg		J	C
INDENO(1,2,3-CD)PYRENE	193-39-5	80	6.8	3.4	ug/Kg			
NAPHTHALENE	91-20-3	7.9	6.8	3.4	ug/Kg		J	C
PHENANTHRENE	85-01-8	100	6.8	3.4	ug/Kg			
PYRENE	129-00-0	200	6.8	3.4	ug/Kg			

Analysis Method 8270C

Sample Name LL2SS-516M-0001-SO **AnalysisType:** RES

Lab Sample Name: 240-1728-14 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
1,2,4-TRICHLOROBENZENE	120-82-1	110	200	110	ug/Kg	U	UJ	C
1,2-DICHLOROBENZENE	95-50-1	110	200	39	ug/Kg	U	UJ	C
1,3-DICHLOROBENZENE	541-73-1	110	200	45	ug/Kg	U J	UJ	C, *III
1,4-DICHLOROBENZENE	106-46-7	110	200	81	ug/Kg	U	UJ	C
2,4,5-TRICHLOROPHENOL	95-95-4	110	610	100	ug/Kg	U	UJ	C
2,4,6-TRICHLOROPHENOL	88-06-2	330	610	330	ug/Kg	U J	UJ	C, *III
2,4-DICHLOROPHENOL	120-83-2	110	610	81	ug/Kg	U	UJ	C
2,4-DIMETHYLPHENOL	105-67-9	330	610	81	ug/Kg	U	UJ	C
2,4-DINITROPHENOL	51-28-5	330	1300	330	ug/Kg	U J	R	Q
2,4-DINITROTOLUENE	121-14-2	110	810	110	ug/Kg	U	U	
2,6-DINITROTOLUENE	606-20-2	110	810	86	ug/Kg	U	UJ	C
2-CHLORONAPHTHALENE	91-58-7	13	200	13	ug/Kg	U	UJ	C
2-CHLOROPHENOL	95-57-8	110	200	110	ug/Kg	U	UJ	C
2-METHYLNAPHTHALENE	91-57-6	45	27	13	ug/Kg		J	C
2-METHYLPHENOL	95-48-7	330	810	330	ug/Kg	U	UJ	C
2-NITROANILINE	88-74-4	110	810	37	ug/Kg	U	UJ	C
2-NITROPHENOL	88-75-5	110	200	110	ug/Kg	U	UJ	C
3,3'-DICHLOROBENZIDINE	91-94-1	330	410	73	ug/Kg	U	UJ	C
3-METHYLPHENOL & 4-METHYL	65794-96-9	330	1600	81	ug/Kg	U	UJ	C
3-NITROANILINE	99-09-2	330	810	65	ug/Kg	U	UJ	C
4,6-DINITRO-2-METHYLPHENOL	534-52-1	330	610	330	ug/Kg	U J	R	Q
4-BROMOPHENYL-PHENYLETHE	101-55-3	110	200	53	ug/Kg	U	UJ	C
4-CHLORO-3-METHYLPHENOL	59-50-7	110	610	86	ug/Kg	U	UJ	C
4-CHLOROANILINE	106-47-8	110	610	69	ug/Kg	U	UJ	C
4-CHLOROPHENYL-PHENYLETH	7005-72-3	110	200	53	ug/Kg	U	UJ	C
4-NITROANILINE	100-01-6	110	810	110	ug/Kg	U	UJ	C
4-NITROPHENOL	100-02-7	330	1300	330	ug/Kg	U	UJ	C
ACENAPHTHENE	83-32-9	110	27	13	ug/Kg		J	C

Analysis Method 8270C

ACENAPHTHYLENE	208-96-8	340	27	13	ug/Kg			
ANTHRACENE	120-12-7	420	27	13	ug/Kg			
BENZO(A)ANTHRACENE	56-55-3	1500	27	13	ug/Kg			
BENZO(A)PYRENE	50-32-8	1600	27	13	ug/Kg	J	J	*III
BENZO(B)FLUORANTHENE	205-99-2	1900	27	13	ug/Kg	M		
BENZO(G,H,I)PERYLENE	191-24-2	870	27	13	ug/Kg			
BENZO(K)FLUORANTHENE	207-08-9	980	27	13	ug/Kg	M		
BENZOIC ACID	65-85-0	1400	2700	1400	ug/Kg	U	R	Q
BENZYL ALCOHOL	100-51-6	110	1300	86	ug/Kg	U	UJ	C
BIS(2-CHLOROETHOXY)METHAN	111-91-1	110	410	90	ug/Kg	U	UJ	C
BIS(2-CHLOROETHYL) ETHER	111-44-4	13	410	8.1	ug/Kg	U	UJ	C
BIS(2-CHLOROISOPROPYL) ETHE	108-60-1	110	410	39	ug/Kg	U	UJ	C
BIS(2-ETHYLHEXYL) PHTHALAT	117-81-7	110	200	77	ug/Kg	U	UJ	C
BUTYLBENZYL PHTHALATE	85-68-7	110	200	41	ug/Kg	U	UJ	C
CARBAZOLE	86-74-8	140	200	110	ug/Kg	J	J	C
CHRYSENE	218-01-9	1400	27	4.5	ug/Kg			
DIBENZO(A,H)ANTHRACENE	53-70-3	240	27	13	ug/Kg		J	C
DIBENZOFURAN	132-64-9	100	200	13	ug/Kg	J	J	C
DIETHYL PHTHALATE	84-66-2	110	200	65	ug/Kg	U	UJ	C
DIMETHYL PHTHALATE	131-11-3	110	200	69	ug/Kg	U	UJ	C
DI-N-BUTYL PHTHALATE	84-74-2	110	200	61	ug/Kg	U	UJ	C
DI-N-OCTYL PHTHALATE	117-84-0	110	200	110	ug/Kg	U	UJ	C
FLUORANTHENE	206-44-0	2900	27	13	ug/Kg	J		
FLUORENE	86-73-7	180	27	13	ug/Kg		J	C
HEXACHLOROBENZENE	118-74-1	13	27	8.6	ug/Kg	U	UJ	C
HEXACHLOROBUTADIENE	87-68-3	110	200	110	ug/Kg	U	UJ	C
HEXACHLOROCYCLOPENTADIE	77-47-4	110	1300	110	ug/Kg	U	UJ	C
HEXACHLOROETHANE	67-72-1	110	200	37	ug/Kg	U J	UJ	C, Q
INDENO(1,2,3-CD)PYRENE	193-39-5	890	27	13	ug/Kg			
ISOPHORONE	78-59-1	75	200	53	ug/Kg	J	J	C
NAPHTHALENE	91-20-3	58	27	13	ug/Kg		J	C
NITROBENZENE	98-95-3	13	410	9	ug/Kg	U	R	D

Analysis Method 8270C

N-NITROSO-DI-N-PROPYLAMINE	621-64-7	110	200	110	ug/Kg	U	UJ	C
N-NITROSODIPHENYLAMINE	86-30-6	110	200	86	ug/Kg	U	UJ	C
PENTACHLOROPHENOL	87-86-5	330	610	330	ug/Kg	U J	R	Q
PHENANTHRENE	85-01-8	1400	27	13	ug/Kg			
PHENOL	108-95-2	110	200	110	ug/Kg	U	UJ	C
PYRENE	129-00-0	2400	27	13	ug/Kg	J		

Sample Name LL2SS-519M-0001-SO **AnalysisType:** RES

Lab Sample Name: 240-1728-13 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
ACENAPHTHENE	83-32-9	37	6.8	3.4	ug/Kg		J	C
ACENAPHTHYLENE	208-96-8	130	6.8	3.4	ug/Kg			
ANTHRACENE	120-12-7	170	6.8	3.4	ug/Kg			
BENZO(A)ANTHRACENE	56-55-3	520	6.8	3.4	ug/Kg			
BENZO(A)PYRENE	50-32-8	590	6.8	3.4	ug/Kg			
BENZO(B)FLUORANTHENE	205-99-2	630	6.8	3.4	ug/Kg	M		
BENZO(G,H,I)PERYLENE	191-24-2	430	6.8	3.4	ug/Kg			
BENZO(K)FLUORANTHENE	207-08-9	410	6.8	3.4	ug/Kg	M		
CHRYSENE	218-01-9	550	6.8	1.1	ug/Kg			
DIBENZO(A,H)ANTHRACENE	53-70-3	97	6.8	3.4	ug/Kg			
FLUORANTHENE	206-44-0	1100	6.8	3.4	ug/Kg			
FLUORENE	86-73-7	76	6.8	3.4	ug/Kg			
INDENO(1,2,3-CD)PYRENE	193-39-5	400	6.8	3.4	ug/Kg			
NAPHTHALENE	91-20-3	30	6.8	3.4	ug/Kg		J	C
PHENANTHRENE	85-01-8	560	6.8	3.4	ug/Kg			
PYRENE	129-00-0	850	6.8	3.4	ug/Kg			

Analysis Method 8270C

Sample Name LL3SD-416M-0001-SD **AnalysisType:** RES

Lab Sample Name: 240-1728-4 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
1,2,4-TRICHLOROBENZENE	120-82-1	550	1000	550	ug/Kg	U Q	UJ	C, L
1,2-DICHLOROBENZENE	95-50-1	550	1000	200	ug/Kg	U Q	UJ	C, L
1,3-DICHLOROBENZENE	541-73-1	550	1000	220	ug/Kg	U Q	UJ	C, L
1,4-DICHLOROBENZENE	106-46-7	550	1000	410	ug/Kg	U	UJ	C
2,4,5-TRICHLOROPHENOL	95-95-4	550	3100	510	ug/Kg	U Q	UJ	C, L
2,4,6-TRICHLOROPHENOL	88-06-2	1600	3100	1600	ug/Kg	U Q	UJ	C, L
2,4-DICHLOROPHENOL	120-83-2	550	3100	410	ug/Kg	U	UJ	C
2,4-DIMETHYLPHENOL	105-67-9	1600	3100	410	ug/Kg	U	UJ	C
2,4-DINITROPHENOL	51-28-5	1600	6700	1600	ug/Kg	U	UJ	C
2,4-DINITROTOLUENE	121-14-2	550	4100	550	ug/Kg	U	R	D
2,6-DINITROTOLUENE	606-20-2	550	4100	430	ug/Kg	U	R	D
2-CHLORONAPHTHALENE	91-58-7	67	1000	67	ug/Kg	U	UJ	C
2-CHLOROPHENOL	95-57-8	550	1000	550	ug/Kg	U	UJ	C
2-METHYLNAPHTHALENE	91-57-6	67	140	67	ug/Kg	U	UJ	C
2-METHYLPHENOL	95-48-7	1600	4100	1600	ug/Kg	U	UJ	C
2-NITROANILINE	88-74-4	550	4100	190	ug/Kg	U	UJ	C
2-NITROPHENOL	88-75-5	550	1000	550	ug/Kg	U	UJ	C
3,3'-DICHLOROBENZIDINE	91-94-1	1600	2000	370	ug/Kg	U	UJ	C
3-METHYLPHENOL & 4-METHYL	65794-96-9	1600	8200	410	ug/Kg	U	UJ	C
3-NITROANILINE	99-09-2	1600	4100	330	ug/Kg	U	UJ	C
4,6-DINITRO-2-METHYLPHENOL	534-52-1	1600	3100	1600	ug/Kg	U	UJ	C
4-BROMOPHENYL-PHENYLETHE	101-55-3	550	1000	270	ug/Kg	U	UJ	C
4-CHLORO-3-METHYLPHENOL	59-50-7	550	3100	430	ug/Kg	U	UJ	C
4-CHLOROANILINE	106-47-8	550	3100	350	ug/Kg	U	UJ	C
4-CHLOROPHENYL-PHENYLETH	7005-72-3	550	1000	270	ug/Kg	U	UJ	C
4-NITROANILINE	100-01-6	550	4100	530	ug/Kg	U	UJ	C
4-NITROPHENOL	100-02-7	1600	6700	1600	ug/Kg	U	UJ	C
ACENAPHTHENE	83-32-9	360	140	67	ug/Kg	D	J	C

Analysis Method 8270C

ACENAPHTHYLENE	208-96-8	1600	140	67	ug/Kg	D		
ANTHRACENE	120-12-7	3100	140	67	ug/Kg	D		
BENZO(A)ANTHRACENE	56-55-3	8600	140	67	ug/Kg	D		
BENZO(A)PYRENE	50-32-8	6800	140	67	ug/Kg	D		
BENZO(B)FLUORANTHENE	205-99-2	9100	140	67	ug/Kg	D M		
BENZO(G,H,I)PERYLENE	191-24-2	4200	140	67	ug/Kg	D		
BENZO(K)FLUORANTHENE	207-08-9	5000	140	67	ug/Kg	D M		
BENZOIC ACID	65-85-0	6800	13000	6800	ug/Kg	U	UJ	C
BENZYL ALCOHOL	100-51-6	550	6700	430	ug/Kg	U	UJ	C
BIS(2-CHLOROETHOXY)METHAN	111-91-1	550	2000	450	ug/Kg	U	UJ	C
BIS(2-CHLOROETHYL) ETHER	111-44-4	67	2000	41	ug/Kg	U	UJ	C
BIS(2-CHLOROISOPROPYL) ETHE	108-60-1	550	2000	190	ug/Kg	U	UJ	C
BIS(2-ETHYLHEXYL) PHTHALAT	117-81-7	550	1000	390	ug/Kg	U	UJ	C
BUTYLBENZYL PHTHALATE	85-68-7	550	1000	200	ug/Kg	U	UJ	C
CARBAZOLE	86-74-8	1100	1000	550	ug/Kg	D	J	C
CHRYSENE	218-01-9	8200	140	22	ug/Kg	D		
DIBENZO(A,H)ANTHRACENE	53-70-3	1200	140	67	ug/Kg	D	J	C
DIBENZOFURAN	132-64-9	550	1000	67	ug/Kg	J D	J	C
DIETHYL PHTHALATE	84-66-2	550	1000	330	ug/Kg	U	UJ	C
DIMETHYL PHTHALATE	131-11-3	550	1000	350	ug/Kg	U	UJ	C
DI-N-BUTYL PHTHALATE	84-74-2	550	1000	310	ug/Kg	U	UJ	C
DI-N-OCTYL PHTHALATE	117-84-0	550	1000	550	ug/Kg	U	UJ	C
FLUORANTHENE	206-44-0	19000	140	67	ug/Kg	D		
FLUORENE	86-73-7	1000	140	67	ug/Kg	D		
HEXACHLOROBENZENE	118-74-1	67	140	43	ug/Kg	U	UJ	C
HEXACHLOROBUTADIENE	87-68-3	550	1000	550	ug/Kg	U Q	UJ	C, L
HEXACHLOROCYCLOPENTADIE	77-47-4	550	6700	550	ug/Kg	U	UJ	C
HEXACHLOROETHANE	67-72-1	550	1000	180	ug/Kg	U	UJ	C
INDENO(1,2,3-CD)PYRENE	193-39-5	4100	140	67	ug/Kg	D		
ISOPHORONE	78-59-1	550	1000	270	ug/Kg	U	UJ	C
NAPHTHALENE	91-20-3	170	140	67	ug/Kg	D	J	C
NITROBENZENE	98-95-3	67	2000	45	ug/Kg	U	R	D

Analysis Method 8270C

N-NITROSO-DI-N-PROPYLAMINE	621-64-7	550	1000	550	ug/Kg	U	UJ	C
N-NITROSODIPHENYLAMINE	86-30-6	550	1000	430	ug/Kg	U	UJ	C
PENTACHLOROPHENOL	87-86-5	1600	3100	1600	ug/Kg	U	UJ	C
PHENANTHRENE	85-01-8	9200	140	67	ug/Kg	D		
PHENOL	108-95-2	550	1000	550	ug/Kg	U	UJ	C
PYRENE	129-00-0	13000	140	67	ug/Kg	D		

Sample Name LL3SS-419M-0001-SO **AnalysisType:** RES

Lab Sample Name: 240-1728-8 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
ACENAPHTHENE	83-32-9	100	13	6.7	ug/Kg			
ACENAPHTHYLENE	208-96-8	6.7	13	6.7	ug/Kg	U	UJ	C
ANTHRACENE	120-12-7	300	13	6.7	ug/Kg	J	J-	Q
BENZO(A)ANTHRACENE	56-55-3	480	13	6.7	ug/Kg	J	J-	Q
BENZO(A)PYRENE	50-32-8	400	13	6.7	ug/Kg	J	J-	Q
BENZO(B)FLUORANTHENE	205-99-2	440	13	6.7	ug/Kg	M J	J-	Q
BENZO(G,H,I)PERYLENE	191-24-2	250	13	6.7	ug/Kg	J		
BENZO(K)FLUORANTHENE	207-08-9	290	13	6.7	ug/Kg	M J	J-	Q
CHRYSENE	218-01-9	470	13	2.2	ug/Kg	J	J-	Q
DIBENZO(A,H)ANTHRACENE	53-70-3	56	13	6.7	ug/Kg		J	C
FLUORANTHENE	206-44-0	1200	13	6.7	ug/Kg	J	R	Q
FLUORENE	86-73-7	120	13	6.7	ug/Kg	J	J	C
INDENO(1,2,3-CD)PYRENE	193-39-5	220	13	6.7	ug/Kg	J		
NAPHTHALENE	91-20-3	79	13	6.7	ug/Kg		J	C
PHENANTHRENE	85-01-8	990	13	6.7	ug/Kg	J	R	Q
PYRENE	129-00-0	930	13	6.7	ug/Kg	J	R	Q

Analysis Method 8330

Sample Name LL2SS-516M-0001-SO **AnalysisType:** RES/WET

Lab Sample Name: 240-1728-14 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
1,3,5-TRINITROBENZENE	99-35-4	0.25	0.25	0.02	mg/kg	U	U	
1,3-DINITROBENZENE	99-65-0	0.25	0.25	0.05	mg/kg	U	U	
2,4,6-TRINITROTOLUENE	118-96-7	0.25	0.25	0.02	mg/kg	U	U	
2,4-DINITROTOLUENE	121-14-2	0.25	0.25	0.02	mg/kg	U	U	
2,6-DINITROTOLUENE	606-20-2	0.25	0.25	0.03	mg/kg	U	R	D
2-AMINO-4,6-DINITROTOLUENE	35572-78-2	0.25	0.25	0.1	mg/kg	U	U	
2-NITROTOLUENE	88-72-2	0.25	0.25	0.08	mg/kg	U	U	
3-NITROTOLUENE	99-08-1	0.25	0.25	0.07	mg/kg	U	U	
4-AMINO-2,6-DINITROTOLUENE	19406-51-0	0.25	0.25	0.02	mg/kg	U	U	
4-NITROTOLUENE	99-99-0	0.25	0.25	0.08	mg/kg	U	U	
HEXAHYDRO-1,3,5-TRINITRO-1,3,	121-82-4	0.25	0.25	0.04	mg/kg	U	U	
METHYL-2,4,6-TRINITROPHENYL	479-45-8	0.25	0.25	0.05	mg/kg	U	U	
NITROBENZENE	98-95-3	0.25	0.25	0.05	mg/kg	U	U	
NITROGLYCERINE	55-63-0	0.5	0.5	0.13	mg/kg	U	U	
OCTAHYDRO-TETRANITRO-1,3,5,	2691-41-0	0.25	0.25	0.03	mg/kg	U	U	
PETN	78-11-5	0.5	0.5	0.16	mg/kg	U	U	

Analysis Method 8330

Sample Name LL3SD-416M-0001-SD **AnalysisType:** DL/WET

Lab Sample Name: 240-1728-4 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
1,3,5-TRINITROBENZENE	99-35-4	0.031	0.25	0.02	mg/kg	J PG	NJ	*III
1,3-DINITROBENZENE	99-65-0	0.25	0.25	0.05	mg/kg	U	U	
2,4,6-TRINITROTOLUENE	118-96-7	0.32	0.25	0.02	mg/kg			
2,4-DINITROTOLUENE	121-14-2	0.25	0.25	0.02	mg/kg	U	R	D
2,6-DINITROTOLUENE	606-20-2	0.25	0.25	0.03	mg/kg	U	U	
2-AMINO-4,6-DINITROTOLUENE	35572-78-2	0.25	0.25	0.099	mg/kg	U	U	
2-NITROTOLUENE	88-72-2	0.25	0.25	0.079	mg/kg	U	U	
3-NITROTOLUENE	99-08-1	0.25	0.25	0.069	mg/kg	U	U	
4-AMINO-2,6-DINITROTOLUENE	19406-51-0	0.25	0.25	0.02	mg/kg	U	U	
4-NITROTOLUENE	99-99-0	0.25	0.25	0.079	mg/kg	U	U	
HEXAHYDRO-1,3,5-TRINITRO-1,3,	121-82-4	0.25	0.25	0.04	mg/kg	U	UJ	C
METHYL-2,4,6-TRINITROPHENYL	479-45-8	0.12	0.25	0.05	mg/kg	J PG	NJ	*III
NITROBENZENE	98-95-3	0.11	0.25	0.05	mg/kg	J PG	NJ	*III
NITROGLYCERINE	55-63-0	0.5	0.5	0.13	mg/kg	U	U	
OCTAHYDRO-TETRANITRO-1,3,5,	2691-41-0	0.25	0.25	0.03	mg/kg	U	U	
PETN	78-11-5	0.5	0.5	0.16	mg/kg	U	U	

Analysis Method 8330 MODIFIED

Sample Name LL2SS-516M-0001-SO **AnalysisType:** DL/WET

Lab Sample Name: 240-1728-14 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
NITROGUANIDINE	556-88-7	0.24	0.24	0.02	mg/kg	U	U	

Sample Name LL3SD-416M-0001-SD **AnalysisType:** DL/WET

Lab Sample Name: 240-1728-4 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
NITROGUANIDINE	556-88-7	0.24	0.24	0.02	mg/kg	U	U	

Analysis Method WS-WC-0050

Sample Name LL2SS-516M-0001-SO **AnalysisType:** RES/TOT

Lab Sample Name: 240-1728-14 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
NITROCELLULOSE	9004-70-0	0.85	5.1	0.79	mg/kg	J	J-	Q

Sample Name LL3SD-416M-0001-SD **AnalysisType:** RES/TOT

Lab Sample Name: 240-1728-4 **Validation Level:** IV

	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
NITROCELLULOSE	9004-70-0	1.4	5.1	0.8	mg/kg	J	J-	Q

APPENDIX B

Sample Qualification Summary

Method	Sample	Analyte	Result	RL	MDL	Units	Qual	Code	Val Level
8082	CHASS-0001M-0001-SO	AROCLOR 1016	25	66	21	ug/Kg	UJ	C	IV
8082	CHASS-0001M-0001-SO	AROCLOR 1221	25	50	16	ug/Kg	UJ	C	IV
8082	CHASS-0001M-0001-SO	AROCLOR 1232	25	45	14	ug/Kg	UJ	C	IV
8082	CHASS-0001M-0001-SO	AROCLOR 1242	25	40	13	ug/Kg	UJ	C	IV
8082	CHASS-0001M-0001-SO	AROCLOR 1248	25	55	17	ug/Kg	UJ	C	IV
8082	CHASS-0001M-0001-SO	AROCLOR 1254	25	55	17	ug/Kg	UJ	C	IV
8082	CHASS-0001M-0001-SO	AROCLOR 1260	25	55	17	ug/Kg	UJ	C	IV
8081A	CHASS-0001M-0001-SO	4,4'-DDD	1.4	4	1.3	ug/Kg	UJ	C	IV
8081A	CHASS-0001M-0001-SO	4,4'-DDE	1.4	3.4	0.79	ug/Kg	UJ	C	IV
8081A	CHASS-0001M-0001-SO	4,4'-DDT	1.4	4	1.3	ug/Kg	UJ	C	IV
8081A	CHASS-0001M-0001-SO	ALDRIN	2.7	8.1	2.4	ug/Kg	UJ	C	IV
8081A	CHASS-0001M-0001-SO	ALPHA-BHC	2.7	5	1.5	ug/Kg	UJ	C	IV
8081A	CHASS-0001M-0001-SO	ALPHA-CHLORDANE	2.7	6.1	1.9	ug/Kg	UJ	C	IV
8081A	CHASS-0001M-0001-SO	BETA-BHC	2.7	7.1	2.2	ug/Kg	UJ	C	IV
8081A	CHASS-0001M-0001-SO	DELTA-BHC	2.7	8.1	2.4	ug/Kg	UJ	C	IV
8081A	CHASS-0001M-0001-SO	DIELDRIN	1.4	3.4	0.95	ug/Kg	UJ	C	IV
8081A	CHASS-0001M-0001-SO	ENDOSULFAN I	1.4	3.4	1	ug/Kg	UJ	C	IV
8081A	CHASS-0001M-0001-SO	ENDOSULFAN II	2.7	5	1.7	ug/Kg	UJ	C	IV
8081A	CHASS-0001M-0001-SO	ENDOSULFAN SULFATE	2.7	6.1	1.8	ug/Kg	UJ	C	IV
8081A	CHASS-0001M-0001-SO	ENDRIN	1.4	3.4	1	ug/Kg	UJ	C	IV
8081A	CHASS-0001M-0001-SO	ENDRIN ALDEHYDE	2.7	6.1	2	ug/Kg	UJ	C	IV
8081A	CHASS-0001M-0001-SO	ENDRIN KETONE	1.4	4	1.3	ug/Kg	UJ	C	IV
8081A	CHASS-0001M-0001-SO	GAMMA-BHC	2.7	5	1.5	ug/Kg	UJ	C	IV
8081A	CHASS-0001M-0001-SO	GAMMA-CHLORDANE	1.4	3.4	0.85	ug/Kg	UJ	C	IV
8081A	CHASS-0001M-0001-SO	HEPTACHLOR	2.7	7.1	2.2	ug/Kg	UJ	C	IV
8081A	CHASS-0001M-0001-SO	HEPTACHLOR EPOXIDE	2.7	5	1.6	ug/Kg	UJ	C	IV
8081A	CHASS-0001M-0001-SO	METHOXYCHLOR	6.7	10	3	ug/Kg	UJ	C	IV
8081A	CHASS-0001M-0001-SO	TOXAPHENE	40	140	38	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	1,2,4-TRICHLOROBENZENE	27	50	27	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	1,2-DICHLOROBENZENE	27	50	9.8	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	1,3-DICHLOROBENZENE	27	50	11	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	1,4-DICHLOROBENZENE	27	50	20	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	2,4,5-TRICHLOROPHENOL	27	150	25	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	2,4,6-TRICHLOROPHENOL	81	150	81	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	2,4-DICHLOROPHENOL	27	150	20	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	2,4-DIMETHYLPHENOL	81	150	20	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	2,4-DINITROPHENOL	81	330	81	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	2,4-DINITROTOLUENE	27	200	27	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	2,6-DINITROTOLUENE	27	200	21	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	2-CHLORONAPHTHALENE	3.3	50	3.3	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	2-CHLOROPHENOL	27	50	27	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	2-METHYLNAPHTHALENE	3.3	6.7	3.3	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	2-METHYLPHENOL	81	200	81	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	2-NITROANILINE	27	200	9.2	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	2-NITROPHENOL	27	50	27	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	3,3'-DICHLOROBENZIDINE	81	100	18	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	3-METHYLPHENOL & 4-	81	400	20	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	3-NITROANILINE	81	200	16	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	4,6-DINITRO-2-METHYLPHENOL	81	150	81	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	4-BROMOPHENYL-PHENYLETHER	27	50	13	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	4-CHLORO-3-METHYLPHENOL	27	150	21	ug/Kg	UJ	C	IV

Method	Sample	Analyte	Result	RL	MDL	Units	Qual	Code	Val Level
8270C	CHASS-0001M-0001-SO	4-CHLOROANILINE	27	150	17	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	4-CHLOROPHENYL-PHENYLETHER	27	50	13	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	4-NITROANILINE	27	200	26	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	4-NITROPHENOL	81	330	81	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	ACENAPHTHENE	3.3	6.7	3.3	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	ACENAPHTHYLENE	3.3	6.7	3.3	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	ANTHRACENE	3.3	6.7	3.3	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	BENZO(A)ANTHRACENE	3.3	6.7	3.3	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	BENZO(A)PYRENE	3.3	6.7	3.3	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	BENZO(B)FLUORANTHENE	3.3	6.7	3.3	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	BENZO(G,H,I)PERYLENE	3.3	6.7	3.3	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	BENZO(K)FLUORANTHENE	3.3	6.7	3.3	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	BENZOIC ACID	340	670	340	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	BENZYL ALCOHOL	27	330	21	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	BIS(2-CHLOROETHOXY)METHANE	27	100	22	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	BIS(2-CHLOROETHYL) ETHER	3.3	100	2	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	BIS(2-CHLOROISOPROPYL) ETHER	27	100	9.6	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	BIS(2-ETHYLHEXYL) PHTHALATE	80	50	19	ug/Kg	UJ	B, C	IV
8270C	CHASS-0001M-0001-SO	BUTYLBENZYL PHTHALATE	27	50	10	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	CARBAZOLE	27	50	27	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	CHRYSENE	3.3	6.7	1.1	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	DIBENZO(A,H)ANTHRACENE	3.3	6.7	3.3	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	DIBENZOFURAN	3.3	50	3.3	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	DIETHYL PHTHALATE	21	50	16	ug/Kg	J	C	IV
8270C	CHASS-0001M-0001-SO	DIMETHYL PHTHALATE	27	50	17	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	DI-N-BUTYL PHTHALATE	18	50	15	ug/Kg	J	C	IV
8270C	CHASS-0001M-0001-SO	DI-N-OCTYL PHTHALATE	27	50	27	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	FLUORANTHENE	3.3	6.7	3.3	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	FLUORENE	3.3	6.7	3.3	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	HEXACHLOROBENZENE	3.3	6.7	2.1	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	HEXACHLOROBUTADIENE	27	50	27	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	HEXACHLOROCYCLOPENTADIENE	27	330	27	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	HEXACHLOROETHANE	27	50	9.1	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	INDENO(1,2,3-CD)PYRENE	3.3	6.7	3.3	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	ISOPHORONE	27	50	13	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	NAPHTHALENE	3.3	6.7	3.3	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	NITROBENZENE	3.3	100	2.2	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	N-NITROSO-DI-N-PROPYLAMINE	27	50	27	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	N-NITROSODIPHENYLAMINE	27	50	21	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	PENTACHLOROPHENOL	81	150	81	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	PHENANTHRENE	3.3	6.7	3.3	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	PHENOL	27	50	27	ug/Kg	UJ	C	IV
8270C	CHASS-0001M-0001-SO	PYRENE	3.3	6.7	3.3	ug/Kg	UJ	C	IV
8270C	LL1SB-641M-0101-SO	ACENAPHTHENE	10	6.7	3.3	ug/Kg	J	C	IV
8270C	LL1SB-641M-0101-SO	ACENAPHTHYLENE	8.6	6.7	3.3	ug/Kg	J	C	IV
8270C	LL1SB-641M-0101-SO	ANTHRACENE	64	6.7	3.3	ug/Kg	J	C	IV
8270C	LL1SB-641M-0101-SO	DIBENZO(A,H)ANTHRACENE	30	6.7	3.3	ug/Kg	J	C	IV
8270C	LL1SB-641M-0101-SO	FLUORENE	12	6.7	3.3	ug/Kg	J	C	IV
8270C	LL1SB-641M-0101-SO	NAPHTHALENE	13	6.7	3.3	ug/Kg	J	C	IV
8270C	LL2SB-512M-0101-SO	ACENAPHTHYLENE	25	6.8	3.4	ug/Kg	J	C	IV
8270C	LL2SB-512M-0101-SO	ANTHRACENE	32	6.8	3.4	ug/Kg	J	C	IV

Method	Sample	Analyte	Result	RL	MDL	Units	Qual	Code	Val Level
8270C	LL2SB-512M-0101-SO	DIBENZO(A,H)ANTHRACENE	22	6.8	3.4	ug/Kg	J	C	IV
8270C	LL2SB-512M-0101-SO	FLUORENE	13	6.8	3.4	ug/Kg	J	C	IV
8270C	LL2SB-512M-0101-SO	NAPHTHALENE	7.9	6.8	3.4	ug/Kg	J	C	IV
6020	LL2SS-516M-0001-SO	ALUMINUM	8100	9.9	2.5	mg/Kg	J-	A	IV
6020	LL2SS-516M-0001-SO	ANTIMONY	0.15	0.19	0.059	mg/Kg	J	Q	IV
6020	LL2SS-516M-0001-SO	ARSENIC	10	0.48	0.05	mg/Kg	J-	Q	IV
6020	LL2SS-516M-0001-SO	CALCIUM	17000	200	40	mg/Kg	J-	A	IV
6020	LL2SS-516M-0001-SO	CHROMIUM	27	0.48	0.15	mg/Kg	J-	Q	IV
6020	LL2SS-516M-0001-SO	COBALT	8.3	0.48	0.021	mg/Kg	J-	Q	IV
6020	LL2SS-516M-0001-SO	COPPER	19	0.38	0.1	mg/Kg	J-	Q	IV
6020	LL2SS-516M-0001-SO	IRON	20000	49	11	mg/Kg	J	Q	IV
6020	LL2SS-516M-0001-SO	LEAD	35	0.29	0.067	mg/Kg	J-	Q	IV
6020	LL2SS-516M-0001-SO	MANGANESE	670	2.4	0.76	mg/Kg	J-	Q	IV
6020	LL2SS-516M-0001-SO	NICKEL	26	0.48	0.082	mg/Kg	J-	Q	IV
6020	LL2SS-516M-0001-SO	SELENIUM	1.2	0.48	0.02	mg/Kg	J-	Q, M	IV
6020	LL2SS-516M-0001-SO	SILVER	0.24	0.48	0.076	mg/Kg	R	C	IV
6020	LL2SS-516M-0001-SO	ZINC	88	19	4.8	mg/Kg	J-	Q	IV
8082	LL2SS-516M-0001-SO	AROCLOR 1016	130	330	110	ug/Kg	UJ	C	IV
8082	LL2SS-516M-0001-SO	AROCLOR 1221	130	250	81	ug/Kg	UJ	C	IV
8082	LL2SS-516M-0001-SO	AROCLOR 1232	130	230	71	ug/Kg	UJ	C	IV
8082	LL2SS-516M-0001-SO	AROCLOR 1242	130	200	66	ug/Kg	UJ	C	IV
8082	LL2SS-516M-0001-SO	AROCLOR 1248	130	280	87	ug/Kg	UJ	C	IV
8082	LL2SS-516M-0001-SO	AROCLOR 1254	670	280	87	ug/Kg	J	C, Q, S	IV
8082	LL2SS-516M-0001-SO	AROCLOR 1260	130	280	87	ug/Kg	UJ	C	IV
7196A	LL2SS-516M-0001-SO	HEXAVALENT CHROMIUM	0.45	0.82	0.28	mg/Kg	J-	B, C, H	IV
8081A	LL2SS-516M-0001-SO	4,4'-DDD	14	41	13	ug/Kg	UJ	C	IV
8081A	LL2SS-516M-0001-SO	4,4'-DDE	19	35	7.9	ug/Kg	J	C	IV
8081A	LL2SS-516M-0001-SO	4,4'-DDT	14	41	13	ug/Kg	UJ	C	IV
8081A	LL2SS-516M-0001-SO	ALDRIN	27	81	24	ug/Kg	UJ	C	IV
8081A	LL2SS-516M-0001-SO	ALPHA-BHC	27	51	15	ug/Kg	UJ	C	IV
8081A	LL2SS-516M-0001-SO	ALPHA-CHLORDANE	27	61	19	ug/Kg	UJ	C	IV
8081A	LL2SS-516M-0001-SO	BETA-BHC	27	71	22	ug/Kg	UJ	C	IV
8081A	LL2SS-516M-0001-SO	DELTA-BHC	27	81	24	ug/Kg	UJ	C	IV
8081A	LL2SS-516M-0001-SO	DIELDRIN	14	35	9.6	ug/Kg	UJ	C	IV
8081A	LL2SS-516M-0001-SO	ENDOSULFAN I	14	35	11	ug/Kg	UJ	C	IV
8081A	LL2SS-516M-0001-SO	ENDOSULFAN II	27	51	17	ug/Kg	UJ	C	IV
8081A	LL2SS-516M-0001-SO	ENDOSULFAN SULFATE	27	61	18	ug/Kg	UJ	C	IV
8081A	LL2SS-516M-0001-SO	ENDRIN	14	35	10	ug/Kg	UJ	C	IV
8081A	LL2SS-516M-0001-SO	ENDRIN ALDEHYDE	27	61	20	ug/Kg	UJ	C	IV
8081A	LL2SS-516M-0001-SO	ENDRIN KETONE	14	41	13	ug/Kg	UJ	C	IV
8081A	LL2SS-516M-0001-SO	GAMMA-BHC	27	51	15	ug/Kg	UJ	C	IV
8081A	LL2SS-516M-0001-SO	GAMMA-CHLORDANE	9.9	35	8.6	ug/Kg	NJ	C, *III	IV
8081A	LL2SS-516M-0001-SO	HEPTACHLOR	27	71	22	ug/Kg	UJ	C	IV
8081A	LL2SS-516M-0001-SO	HEPTACHLOR EPOXIDE	27	51	16	ug/Kg	UJ	C	IV
8081A	LL2SS-516M-0001-SO	METHOXYCHLOR	67	100	31	ug/Kg	UJ	C	IV
8081A	LL2SS-516M-0001-SO	TOXAPHENE	410	1400	390	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	1,2,4-TRICHLOROBENZENE	110	200	110	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	1,2-DICHLOROBENZENE	110	200	39	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	1,3-DICHLOROBENZENE	110	200	45	ug/Kg	UJ	C, *III	IV
8270C	LL2SS-516M-0001-SO	1,4-DICHLOROBENZENE	110	200	81	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	2,4,5-TRICHLOROPHENOL	110	610	100	ug/Kg	UJ	C	IV

Method	Sample	Analyte	Result	RL	MDL	Units	Qual	Code	Val Level
8270C	LL2SS-516M-0001-SO	2,4,6-TRICHLOROPHENOL	330	610	330	ug/Kg	UJ	C, *III	IV
8270C	LL2SS-516M-0001-SO	2,4-DICHLOROPHENOL	110	610	81	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	2,4-DIMETHYLPHENOL	330	610	81	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	2,4-DINITROPHENOL	330	1300	330	ug/Kg	R	Q	IV
8270C	LL2SS-516M-0001-SO	2,4-DINITROTOLUENE	110	810	110	ug/Kg	R	D	IV
8270C	LL2SS-516M-0001-SO	2,6-DINITROTOLUENE	110	810	86	ug/Kg	R	D	IV
8270C	LL2SS-516M-0001-SO	2-CHLORONAPHTHALENE	13	200	13	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	2-CHLOROPHENOL	110	200	110	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	2-METHYLNAPHTHALENE	45	27	13	ug/Kg	J	C	IV
8270C	LL2SS-516M-0001-SO	2-METHYLPHENOL	330	810	330	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	2-NITROANILINE	110	810	37	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	2-NITROPHENOL	110	200	110	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	3,3'-DICHLOROBENZIDINE	330	410	73	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	3-METHYLPHENOL & 4-	330	1600	81	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	3-NITROANILINE	330	810	65	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	4,6-DINITRO-2-METHYLPHENOL	330	610	330	ug/Kg	R	Q	IV
8270C	LL2SS-516M-0001-SO	4-BROMOPHENYL-PHENYLETHER	110	200	53	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	4-CHLORO-3-METHYLPHENOL	110	610	86	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	4-CHLOROANILINE	110	610	69	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	4-CHLOROPHENYL-PHENYLETHER	110	200	53	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	4-NITROANILINE	110	810	110	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	4-NITROPHENOL	330	1300	330	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	ACENAPHTHENE	110	27	13	ug/Kg	J	C	IV
8270C	LL2SS-516M-0001-SO	BENZO(A)PYRENE	1600	27	13	ug/Kg	J	*III	IV
8270C	LL2SS-516M-0001-SO	BENZOIC ACID	1400	2700	1400	ug/Kg	R	Q	IV
8270C	LL2SS-516M-0001-SO	BENZYL ALCOHOL	110	1300	86	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	BIS(2-CHLOROETHOXY)METHANE	110	410	90	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	BIS(2-CHLOROETHYL) ETHER	13	410	8.1	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	BIS(2-CHLOROISOPROPYL) ETHER	110	410	39	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	BIS(2-ETHYLHEXYL) PHTHALATE	110	200	77	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	BUTYLBENZYL PHTHALATE	110	200	41	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	CARBAZOLE	140	200	110	ug/Kg	J	C	IV
8270C	LL2SS-516M-0001-SO	DIBENZO(A,H)ANTHRACENE	240	27	13	ug/Kg	J	C	IV
8270C	LL2SS-516M-0001-SO	DIBENZOFURAN	100	200	13	ug/Kg	J	C	IV
8270C	LL2SS-516M-0001-SO	DIETHYL PHTHALATE	110	200	65	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	DIMETHYL PHTHALATE	110	200	69	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	DI-N-BUTYL PHTHALATE	110	200	61	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	DI-N-OCTYL PHTHALATE	110	200	110	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	FLUORENE	180	27	13	ug/Kg	J	C	IV
8270C	LL2SS-516M-0001-SO	HEXACHLOROBENZENE	13	27	8.6	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	HEXACHLOROBUTADIENE	110	200	110	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	HEXACHLOROCYCLOPENTADIENE	110	1300	110	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	HEXACHLOROETHANE	110	200	37	ug/Kg	UJ	C, Q	IV
8270C	LL2SS-516M-0001-SO	ISOPHORONE	75	200	53	ug/Kg	J	C	IV
8270C	LL2SS-516M-0001-SO	NAPHTHALENE	58	27	13	ug/Kg	J	C	IV
8270C	LL2SS-516M-0001-SO	NITROBENZENE	13	410	9	ug/Kg	R	D	IV
8270C	LL2SS-516M-0001-SO	N-NITROSO-DI-N-PROPYLAMINE	110	200	110	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	N-NITROSODIPHENYLAMINE	110	200	86	ug/Kg	UJ	C	IV
8270C	LL2SS-516M-0001-SO	PENTACHLOROPHENOL	330	610	330	ug/Kg	R	Q	IV
8270C	LL2SS-516M-0001-SO	PHENOL	110	200	110	ug/Kg	UJ	C	IV
WS-WC-	LL2SS-516M-0001-SO	NITROCELLULOSE	0.85	5.1	0.79	mg/kg	J-	Q	IV

Method	Sample	Analyte	Result	RL	MDL	Units	Qual	Code	Val Level
8260B	LL2SS-516V-0001-SO	1,1,1-TRICHLOROETHANE	9.2	230	19	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	1,1,2,2-TETRACHLOROETHANE	23	230	8.2	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	1,1,2-TRICHLOROETHANE	23	230	11	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	1,1-DICHLOROETHANE	23	230	16	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	1,1-DICHLOROETHENE	23	230	16	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	1,2-DIBROMOETHANE	23	230	9.2	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	1,2-DICHLOROETHANE	23	230	9.2	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	1,2-DICHLOROETHENE (TOTAL)	7.5	460	7.5	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	1,2-DICHLOROPROPANE	9.2	230	7.5	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	2-BUTANONE	92	920	39	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	2-HEXANONE	46	920	18	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	4-METHYL-2-PENTANONE	92	920	44	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	ACETONE	180	920	160	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	BENZENE	23	230	11	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	BROMOCHLOROMETHANE	23	230	12	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	BROMODICHLOROMETHANE	23	230	9.1	ug/Kg	UJ	C, Q, S	IV
8260B	LL2SS-516V-0001-SO	BROMOFORM	23	230	17	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	BROMOMETHANE	46	230	27	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	CARBON DISULFIDE	23	230	11	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	CARBON TETRACHLORIDE	9.2	230	5.9	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	CHLOROBENZENE	9.2	230	5.9	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	CHLOROETHANE	92	230	56	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	CHLOROFORM	23	230	8.1	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	CHLOROMETHANE	23	230	13	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	CIS-1,2-DICHLOROETHENE	9.2	230	6.3	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	CIS-1,3-DICHLOROPROPENE	9.2	230	7.2	ug/Kg	UJ	C, Q, S	IV
8260B	LL2SS-516V-0001-SO	DIBROMOCHLOROMETHANE	23	230	11	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	ETHYL BENZENE	9.2	230	4.9	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	METHYLENE CHLORIDE	200	230	71	ug/Kg	J-	C, S	IV
8260B	LL2SS-516V-0001-SO	STYRENE	9.2	230	5.1	ug/Kg	UJ	C, Q, S	IV
8260B	LL2SS-516V-0001-SO	TETRACHLOROETHENE	23	230	11	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	TOLUENE	23	230	16	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	TOTAL XYLENES	27	460	7.4	ug/Kg	UJ	C, Q, S	IV
8260B	LL2SS-516V-0001-SO	TRANS-1,2-DICHLOROETHENE	23	230	8.4	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	TRANS-1,3-DICHLOROPROPENE	23	230	18	ug/Kg	UJ	C, Q, S	IV
8260B	LL2SS-516V-0001-SO	TRICHLOROETHENE	23	230	8.9	ug/Kg	UJ	C, S	IV
8260B	LL2SS-516V-0001-SO	VINYL CHLORIDE	23	230	16	ug/Kg	UJ	C, Q, S	IV
8082	LL2SS-519M-0001-SO	AROCLOR 1016	130	330	110	ug/Kg	UJ	C	IV
8082	LL2SS-519M-0001-SO	AROCLOR 1221	130	250	82	ug/Kg	UJ	C	IV
8082	LL2SS-519M-0001-SO	AROCLOR 1232	130	230	71	ug/Kg	UJ	C	IV
8082	LL2SS-519M-0001-SO	AROCLOR 1242	130	200	66	ug/Kg	UJ	C	IV
8082	LL2SS-519M-0001-SO	AROCLOR 1248	130	280	87	ug/Kg	UJ	C	IV
8082	LL2SS-519M-0001-SO	AROCLOR 1254	490	280	87	ug/Kg	J	C, S	IV
8082	LL2SS-519M-0001-SO	AROCLOR 1260	130	280	87	ug/Kg	UJ	C	IV
8270C	LL2SS-519M-0001-SO	ACENAPHTHENE	37	6.8	3.4	ug/Kg	J	C	IV
8270C	LL2SS-519M-0001-SO	NAPHTHALENE	30	6.8	3.4	ug/Kg	J	C	IV
8270C	LL3SB-415M-0103-SO	ACENAPHTHENE	3.3	6.8	3.3	ug/Kg	UJ	C	IV
8270C	LL3SB-415M-0103-SO	ACENAPHTHYLENE	3.3	6.8	3.3	ug/Kg	UJ	C	IV
8270C	LL3SB-415M-0103-SO	ANTHRACENE	6.9	6.8	3.3	ug/Kg	J	C	IV
8270C	LL3SB-415M-0103-SO	BENZO(G,H,I)PERYLENE	55	6.8	3.3	ug/Kg	J	C	IV
8270C	LL3SB-415M-0103-SO	BENZO(K)FLUORANTHENE	56	6.8	3.3	ug/Kg	J	C	IV

Method	Sample	Analyte	Result	RL	MDL	Units	Qual	Code	Val Level
8270C	LL3SB-415M-0103-SO	DIBENZO(A,H)ANTHRACENE	17	6.8	3.3	ug/Kg	J	C	IV
8270C	LL3SB-415M-0103-SO	FLUORENE	3.3	6.8	3.3	ug/Kg	UJ	C	IV
8270C	LL3SB-415M-0103-SO	INDENO(1,2,3-CD)PYRENE	50	6.8	3.3	ug/Kg	J	C	IV
8270C	LL3SB-415M-0103-SO	NAPHTHALENE	3.3	6.8	3.3	ug/Kg	UJ	C	IV
8270C	LL3SB-415M-0103-SO	PHENANTHRENE	23	6.8	3.3	ug/Kg	J	C	IV
6020	LL3SD-416M-0001-SD	ALUMINUM	10000	86	22	mg/Kg	J-	A	IV
6020	LL3SD-416M-0001-SD	ANTIMONY	1.4	0.17	0.054	mg/Kg	J-	Q	IV
6020	LL3SD-416M-0001-SD	ARSENIC	14	0.43	0.045	mg/Kg	J-	Q	IV
6020	LL3SD-416M-0001-SD	BARIUM	150	0.43	0.11	mg/Kg	J-	Q	IV
6020	LL3SD-416M-0001-SD	CADMIUM	1	1.7	0.027	mg/Kg	J-	Q, A	IV
6020	LL3SD-416M-0001-SD	CALCIUM	15000	1700	350	mg/Kg	J-	A	IV
6020	LL3SD-416M-0001-SD	CHROMIUM	26	0.43	0.14	mg/Kg	J-	Q	IV
6020	LL3SD-416M-0001-SD	COBALT	21	0.86	0.039	mg/Kg	J-	Q	IV
6020	LL3SD-416M-0001-SD	COPPER	9.6	0.35	0.095	mg/Kg	J-	Q	IV
6020	LL3SD-416M-0001-SD	LEAD	23	0.26	0.061	mg/Kg	J-	Q	IV
6020	LL3SD-416M-0001-SD	MANGANESE	3700	4.3	1.4	mg/Kg	J-	Q	IV
6020	LL3SD-416M-0001-SD	NICKEL	28	0.43	0.075	mg/Kg	J-	Q	IV
6020	LL3SD-416M-0001-SD	SELENIUM	1.1	0.43	0.018	mg/Kg	J-	Q, M	IV
6020	LL3SD-416M-0001-SD	SILVER	0.43	0.86	0.14	mg/Kg	R	C	IV
6020	LL3SD-416M-0001-SD	SODIUM	110	86	12	mg/Kg	U	F	IV
6020	LL3SD-416M-0001-SD	THALLIUM	0.16	0.17	0.049	mg/Kg	J	*III	IV
6020	LL3SD-416M-0001-SD	ZINC	160	35	8.6	mg/Kg	J-	Q	IV
8082	LL3SD-416M-0001-SD	AROCLOR 1016	25	66	21	ug/Kg	UJ	C	IV
8082	LL3SD-416M-0001-SD	AROCLOR 1221	25	51	16	ug/Kg	UJ	C	IV
8082	LL3SD-416M-0001-SD	AROCLOR 1232	25	46	14	ug/Kg	UJ	C	IV
8082	LL3SD-416M-0001-SD	AROCLOR 1242	25	41	13	ug/Kg	UJ	C	IV
8082	LL3SD-416M-0001-SD	AROCLOR 1248	25	56	17	ug/Kg	UJ	C	IV
8082	LL3SD-416M-0001-SD	AROCLOR 1254	44	56	17	ug/Kg	J	C, S	IV
8082	LL3SD-416M-0001-SD	AROCLOR 1260	25	56	17	ug/Kg	UJ	C	IV
8330	LL3SD-416M-0001-SD	1,3,5-TRINITROBENZENE	0.031	0.25	0.02	mg/kg	NJ	*III	IV
8330	LL3SD-416M-0001-SD	RDX	0.25	0.25	0.04	mg/kg	UJ	C	IV
8330	LL3SD-416M-0001-SD	TETRYL	0.12	0.25	0.05	mg/kg	NJ	*III	IV
8330	LL3SD-416M-0001-SD	NITROBENZENE	0.11	0.25	0.05	mg/kg	NJ	*III	IV
7196A	LL3SD-416M-0001-SD	HEXAVALENT CHROMIUM	0.46	0.82	0.28	mg/Kg	J-	B, C, H	IV
8081A	LL3SD-416M-0001-SD	4,4'-DDD	34	100	32	ug/Kg	UJ	C	IV
8081A	LL3SD-416M-0001-SD	4,4'-DDE	34	87	20	ug/Kg	UJ	C	IV
8081A	LL3SD-416M-0001-SD	4,4'-DDT	34	100	32	ug/Kg	UJ	C	IV
8081A	LL3SD-416M-0001-SD	ALDRIN	68	200	61	ug/Kg	UJ	C	IV
8081A	LL3SD-416M-0001-SD	ALPHA-BHC	68	130	37	ug/Kg	UJ	C	IV
8081A	LL3SD-416M-0001-SD	ALPHA-CHLORDANE	68	150	48	ug/Kg	UJ	C	IV
8081A	LL3SD-416M-0001-SD	BETA-BHC	130	180	56	ug/Kg	J	C, *III	IV
8081A	LL3SD-416M-0001-SD	DELTA-BHC	68	200	61	ug/Kg	UJ	C	IV
8081A	LL3SD-416M-0001-SD	DIELDRIN	34	87	24	ug/Kg	UJ	C	IV
8081A	LL3SD-416M-0001-SD	ENDOSULFAN I	34	87	27	ug/Kg	UJ	C	IV
8081A	LL3SD-416M-0001-SD	ENDOSULFAN II	68	130	42	ug/Kg	UJ	C	IV
8081A	LL3SD-416M-0001-SD	ENDOSULFAN SULFATE	68	150	44	ug/Kg	UJ	C	IV
8081A	LL3SD-416M-0001-SD	ENDRIN	34	87	25	ug/Kg	UJ	C	IV
8081A	LL3SD-416M-0001-SD	ENDRIN ALDEHYDE	68	150	51	ug/Kg	UJ	C	IV
8081A	LL3SD-416M-0001-SD	ENDRIN KETONE	34	100	32	ug/Kg	UJ	C	IV
8081A	LL3SD-416M-0001-SD	GAMMA-BHC	68	130	38	ug/Kg	UJ	C	IV
8081A	LL3SD-416M-0001-SD	GAMMA-CHLORDANE	34	87	21	ug/Kg	UJ	C	IV

Method	Sample	Analyte	Result	RL	MDL	Units	Qual	Code	Val Level
8081A	LL3SD-416M-0001-SD	HEPTACHLOR	68	180	56	ug/Kg	UJ	C	IV
8081A	LL3SD-416M-0001-SD	HEPTACHLOR EPOXIDE	68	130	41	ug/Kg	UJ	C	IV
8081A	LL3SD-416M-0001-SD	METHOXYCHLOR	170	250	76	ug/Kg	UJ	C	IV
8081A	LL3SD-416M-0001-SD	TOXAPHENE	1000	3400	970	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	1,2,4-TRICHLOROBENZENE	550	1000	550	ug/Kg	UJ	C, L	IV
8270C	LL3SD-416M-0001-SD	1,2-DICHLOROBENZENE	550	1000	200	ug/Kg	UJ	C, L	IV
8270C	LL3SD-416M-0001-SD	1,3-DICHLOROBENZENE	550	1000	220	ug/Kg	UJ	C, L	IV
8270C	LL3SD-416M-0001-SD	1,4-DICHLOROBENZENE	550	1000	410	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	2,4,5-TRICHLOROPHENOL	550	3100	510	ug/Kg	UJ	C, L	IV
8270C	LL3SD-416M-0001-SD	2,4,6-TRICHLOROPHENOL	1600	3100	1600	ug/Kg	UJ	C, L	IV
8270C	LL3SD-416M-0001-SD	2,4-DICHLOROPHENOL	550	3100	410	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	2,4-DIMETHYLPHENOL	1600	3100	410	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	2,4-DINITROPHENOL	1600	6700	1600	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	2,4-DINITROTOLUENE	550	4100	550	ug/Kg	R	D	IV
8270C	LL3SD-416M-0001-SD	2,6-DINITROTOLUENE	550	4100	430	ug/Kg	R	D	IV
8270C	LL3SD-416M-0001-SD	2-CHLORONAPHTHALENE	67	1000	67	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	2-CHLOROPHENOL	550	1000	550	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	2-METHYLNAPHTHALENE	67	140	67	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	2-METHYLPHENOL	1600	4100	1600	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	2-NITROANILINE	550	4100	190	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	2-NITROPHENOL	550	1000	550	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	3,3'-DICHLOROBENZIDINE	1600	2000	370	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	3-METHYLPHENOL & 4-	1600	8200	410	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	3-NITROANILINE	1600	4100	330	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	4,6-DINITRO-2-METHYLPHENOL	1600	3100	1600	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	4-BROMOPHENYL-PHENYLETHER	550	1000	270	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	4-CHLORO-3-METHYLPHENOL	550	3100	430	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	4-CHLOROANILINE	550	3100	350	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	4-CHLOROPHENYL-PHENYLETHER	550	1000	270	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	4-NITROANILINE	550	4100	530	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	4-NITROPHENOL	1600	6700	1600	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	ACENAPHTHENE	360	140	67	ug/Kg	J	C	IV
8270C	LL3SD-416M-0001-SD	BENZOIC ACID	6800	13000	6800	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	BENZYL ALCOHOL	550	6700	430	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	BIS(2-CHLOROETHOXY)METHANE	550	2000	450	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	BIS(2-CHLOROETHYL) ETHER	67	2000	41	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	BIS(2-CHLOROISOPROPYL) ETHER	550	2000	190	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	BIS(2-ETHYLHEXYL) PHTHALATE	550	1000	390	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	BUTYLBENZYL PHTHALATE	550	1000	200	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	CARBAZOLE	1100	1000	550	ug/Kg	J	C	IV
8270C	LL3SD-416M-0001-SD	DIBENZO(A,H)ANTHRACENE	1200	140	67	ug/Kg	J	C	IV
8270C	LL3SD-416M-0001-SD	DIBENZOFURAN	550	1000	67	ug/Kg	J	C	IV
8270C	LL3SD-416M-0001-SD	DIETHYL PHTHALATE	550	1000	330	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	DIMETHYL PHTHALATE	550	1000	350	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	DI-N-BUTYL PHTHALATE	550	1000	310	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	DI-N-OCTYL PHTHALATE	550	1000	550	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	HEXACHLOROBENZENE	67	140	43	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	HEXACHLOROBUTADIENE	550	1000	550	ug/Kg	UJ	C, L	IV
8270C	LL3SD-416M-0001-SD	HEXACHLOROCYCLOPENTADIENE	550	6700	550	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	HEXACHLOROETHANE	550	1000	180	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	ISOPHORONE	550	1000	270	ug/Kg	UJ	C	IV

Method	Sample	Analyte	Result	RL	MDL	Units	Qual	Code	Val Level
8270C	LL3SD-416M-0001-SD	NAPHTHALENE	170	140	67	ug/Kg	J	C	IV
8270C	LL3SD-416M-0001-SD	NITROBENZENE	67	2000	45	ug/Kg	R	D	IV
8270C	LL3SD-416M-0001-SD	N-NITROSO-DI-N-PROPYLAMINE	550	1000	550	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	N-NITROSODIPHENYLAMINE	550	1000	430	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	PENTACHLOROPHENOL	1600	3100	1600	ug/Kg	UJ	C	IV
8270C	LL3SD-416M-0001-SD	PHENOL	550	1000	550	ug/Kg	UJ	C	IV
WS-WC-	LL3SD-416M-0001-SD	NITROCELLULOSE	1.4	5.1	0.8	mg/kg	J-	Q	IV
8260B	LL3SD-416V-0001-SD	1,1,1-TRICHLOROETHANE	9.3	230	20	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	1,1,2,2-TETRACHLOROETHANE	23	230	8.3	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	1,1,2-TRICHLOROETHANE	23	230	11	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	1,1-DICHLOROETHANE	23	230	16	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	1,1-DICHLOROETHENE	23	230	17	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	1,2-DIBROMOETHANE	23	230	9.3	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	1,2-DICHLOROETHANE	23	230	9.3	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	1,2-DICHLOROETHENE (TOTAL)	7.7	470	7.7	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	1,2-DICHLOROPROPANE	9.3	230	7.7	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	2-BUTANONE	93	930	40	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	2-HEXANONE	47	930	19	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	4-METHYL-2-PENTANONE	93	930	45	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	ACETONE	190	930	160	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	BENZENE	23	230	11	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	BROMOCHLOROMETHANE	23	230	12	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	BROMODICHLOROMETHANE	23	230	9.2	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	BROMOFORM	23	230	18	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	BROMOMETHANE	47	230	27	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	CARBON DISULFIDE	42	230	11	ug/Kg	J-	C, S	IV
8260B	LL3SD-416V-0001-SD	CARBON TETRACHLORIDE	9.3	230	6	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	CHLOROBENZENE	9.3	230	6	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	CHLOROETHANE	93	230	57	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	CHLOROFORM	23	230	8.2	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	CHLOROMETHANE	23	230	13	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	CIS-1,2-DICHLOROETHENE	9.3	230	6.4	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	CIS-1,3-DICHLOROPROPENE	9.3	230	7.4	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	DIBROMOCHLOROMETHANE	23	230	11	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	ETHYL BENZENE	9.3	230	5	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	METHYLENE CHLORIDE	150	230	72	ug/Kg	J-	C, S	IV
8260B	LL3SD-416V-0001-SD	STYRENE	9.3	230	5.2	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	TETRACHLOROETHENE	23	230	11	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	TOLUENE	23	230	16	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	TOTAL XYLENES	28	470	7.6	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	TRANS-1,2-DICHLOROETHENE	23	230	8.6	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	TRANS-1,3-DICHLOROPROPENE	23	230	19	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	TRICHLOROETHENE	23	230	9.1	ug/Kg	UJ	C, S	IV
8260B	LL3SD-416V-0001-SD	VINYL CHLORIDE	23	230	17	ug/Kg	UJ	C, S	IV
8270C	LL3SS-419M-0001-SO	ACENAPHTHYLENE	6.7	13	6.7	ug/Kg	UJ	C	IV
8270C	LL3SS-419M-0001-SO	ANTHRACENE	300	13	6.7	ug/Kg	J-	Q	IV
8270C	LL3SS-419M-0001-SO	BENZO(A)ANTHRACENE	480	13	6.7	ug/Kg	J-	Q	IV
8270C	LL3SS-419M-0001-SO	BENZO(A)PYRENE	400	13	6.7	ug/Kg	J-	Q	IV
8270C	LL3SS-419M-0001-SO	BENZO(B)FLUORANTHENE	440	13	6.7	ug/Kg	J-	Q	IV
8270C	LL3SS-419M-0001-SO	BENZO(K)FLUORANTHENE	290	13	6.7	ug/Kg	J-	Q	IV
8270C	LL3SS-419M-0001-SO	CHRYSENE	470	13	2.2	ug/Kg	J-	Q	IV

Method	Sample	Analyte	Result	RL	MDL	Units	Qual	Code	Val Level
8270C	LL3SS-419M-0001-SO	DIBENZO(A,H)ANTHRACENE	56	13	6.7	ug/Kg	J	C	IV
8270C	LL3SS-419M-0001-SO	FLUORANTHENE	1200	13	6.7	ug/Kg	J-	Q	IV
8270C	LL3SS-419M-0001-SO	FLUORENE	120	13	6.7	ug/Kg	J	C	IV
8270C	LL3SS-419M-0001-SO	NAPHTHALENE	79	13	6.7	ug/Kg	J	C	IV
8270C	LL3SS-419M-0001-SO	PHENANTHRENE	990	13	6.7	ug/Kg	J-	Q	IV
8270C	LL3SS-419M-0001-SO	PYRENE	930	13	6.7	ug/Kg	J-	Q	IV

APPENDIX C

Primary/Field Duplicate Sample Comparisons

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
CHASS-0001M-0001-SO	ALUMINUM	4900	9.7	mg/Kg		CHASS-0002M-0001-SO	4700	9.3		4	N/A
CHASS-0001M-0001-SO	ANTIMONY	0.062	0.19	mg/Kg	J	CHASS-0002M-0001-SO	0.059	0.19	J	N/A	Yes
CHASS-0001M-0001-SO	ARSENIC	8.1	0.49	mg/Kg		CHASS-0002M-0001-SO	8.4	0.46		4	N/A
CHASS-0001M-0001-SO	BARIUM	27	0.49	mg/Kg		CHASS-0002M-0001-SO	28	0.46		4	N/A
CHASS-0001M-0001-SO	BERYLLIUM	0.28	0.097	mg/Kg		CHASS-0002M-0001-SO	0.28	0.093		N/A	Yes
CHASS-0001M-0001-SO	CADMIUM	0.042	0.19	mg/Kg	J	CHASS-0002M-0001-SO	0.052	0.19	J	N/A	Yes
CHASS-0001M-0001-SO	CALCIUM	640	190	mg/Kg		CHASS-0002M-0001-SO	630	190		N/A	Yes
CHASS-0001M-0001-SO	CHROMIUM	11	0.49	mg/Kg		CHASS-0002M-0001-SO	9.8	0.46		12	N/A
CHASS-0001M-0001-SO	COBALT	5.2	0.097	mg/Kg		CHASS-0002M-0001-SO	4.7	0.093		10	N/A
CHASS-0001M-0001-SO	COPPER	13	0.39	mg/Kg		CHASS-0002M-0001-SO	13	0.37		0	N/A
CHASS-0001M-0001-SO	IRON	15000	49	mg/Kg		CHASS-0002M-0001-SO	15000	46		0	N/A
CHASS-0001M-0001-SO	LEAD	8.3	0.29	mg/Kg		CHASS-0002M-0001-SO	8.2	0.28		1	N/A
CHASS-0001M-0001-SO	MAGNESIUM	1300	97	mg/Kg		CHASS-0002M-0001-SO	1200	93		8	N/A
CHASS-0001M-0001-SO	MANGANESE	220	0.49	mg/Kg		CHASS-0002M-0001-SO	220	0.46		0	N/A
CHASS-0001M-0001-SO	NICKEL	14	0.49	mg/Kg		CHASS-0002M-0001-SO	13	0.46		7	N/A
CHASS-0001M-0001-SO	POTASSIUM	590	97	mg/Kg		CHASS-0002M-0001-SO	540	93		9	N/A
CHASS-0001M-0001-SO	SELENIUM	0.75	0.49	mg/Kg		CHASS-0002M-0001-SO	0.7	0.46		N/A	Yes
CHASS-0001M-0001-SO	SILVER	0.049	0.097	mg/Kg	U	CHASS-0002M-0001-SO	0.046	0.093	U	N/A	Yes
CHASS-0001M-0001-SO	SODIUM	27	97	mg/Kg	J	CHASS-0002M-0001-SO	24	93	J	N/A	Yes
CHASS-0001M-0001-SO	THALLIUM	0.099	0.19	mg/Kg	J	CHASS-0002M-0001-SO	0.088	0.19	J	N/A	Yes
CHASS-0001M-0001-SO	VANADIUM	10	0.49	mg/Kg		CHASS-0002M-0001-SO	9.7	0.46		3	N/A
CHASS-0001M-0001-SO	ZINC	40	3.9	mg/Kg		CHASS-0002M-0001-SO	42	3.7		5	N/A
CHASS-0001M-0001-SO	AROCLOR 1016	25	66	ug/Kg	UJ	CHASS-0002M-0001-SO	25	66	U	N/A	Yes
CHASS-0001M-0001-SO	AROCLOR 1221	25	50	ug/Kg	UJ	CHASS-0002M-0001-SO	25	50	U	N/A	Yes
CHASS-0001M-0001-SO	AROCLOR 1232	25	45	ug/Kg	UJ	CHASS-0002M-0001-SO	25	45	U	N/A	Yes
CHASS-0001M-0001-SO	AROCLOR 1242	25	40	ug/Kg	UJ	CHASS-0002M-0001-SO	25	40	U	N/A	Yes
CHASS-0001M-0001-SO	AROCLOR 1248	25	55	ug/Kg	UJ	CHASS-0002M-0001-SO	25	55	U	N/A	Yes
CHASS-0001M-0001-SO	AROCLOR 1254	25	55	ug/Kg	UJ	CHASS-0002M-0001-SO	25	55	U	N/A	Yes
CHASS-0001M-0001-SO	AROCLOR 1260	25	55	ug/Kg	UJ	CHASS-0002M-0001-SO	25	55	U	N/A	Yes
CHASS-0001M-0001-SO	1,3,5-TRINITROBENZENE	0.25	0.25	mg/kg	UJ	CHASS-0002M-0001-SO	0.24	0.24	UJ	N/A	Yes
CHASS-0001M-0001-SO	1,3-DINITROBENZENE	0.25	0.25	mg/kg	UJ	CHASS-0002M-0001-SO	0.24	0.24	UJ	N/A	Yes
CHASS-0001M-0001-SO	2,4,6-TRINITROTOLUENE	0.25	0.25	mg/kg	UJ	CHASS-0002M-0001-SO	0.24	0.24	UJ	N/A	Yes
CHASS-0001M-0001-SO	2,4-DINITROTOLUENE	0.25	0.25	mg/kg	UJ	CHASS-0002M-0001-SO	0.24	0.24	UJ	N/A	Yes
CHASS-0001M-0001-SO	2,6-DINITROTOLUENE	0.25	0.25	mg/kg	UJ	CHASS-0002M-0001-SO	0.24	0.24	UJ	N/A	Yes
CHASS-0001M-0001-SO	2-AMINO-4,6-DINITROTOLUENE	0.25	0.25	mg/kg	UJ	CHASS-0002M-0001-SO	0.24	0.24	UJ	N/A	Yes
CHASS-0001M-0001-SO	2-NITROTOLUENE	0.25	0.25	mg/kg	UJ	CHASS-0002M-0001-SO	0.24	0.24	UJ	N/A	Yes
CHASS-0001M-0001-SO	3-NITROTOLUENE	0.25	0.25	mg/kg	UJ	CHASS-0002M-0001-SO	0.24	0.24	UJ	N/A	Yes
CHASS-0001M-0001-SO	4-AMINO-2,6-DINITROTOLUENE	0.25	0.25	mg/kg	UJ	CHASS-0002M-0001-SO	0.24	0.24	UJ	N/A	Yes
CHASS-0001M-0001-SO	4-NITROTOLUENE	0.25	0.25	mg/kg	UJ	CHASS-0002M-0001-SO	0.24	0.24	UJ	N/A	Yes
CHASS-0001M-0001-SO	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	0.25	0.25	mg/kg	UJ	CHASS-0002M-0001-SO	0.24	0.24	UJ	N/A	Yes

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
CHASS-0001M-0001-SO	METHYL-2,4,6-TRINITROPHENYLNITRAMINE	0.25	0.25	mg/kg	UJ	CHASS-0002M-0001-SO	0.24	0.24	UJ	N/A	Yes
CHASS-0001M-0001-SO	NITROBENZENE	0.25	0.25	mg/kg	UJ	CHASS-0002M-0001-SO	0.24	0.24	UJ	N/A	Yes
CHASS-0001M-0001-SO	NITROGLYCERINE	0.5	0.5	mg/kg	UJ	CHASS-0002M-0001-SO	0.49	0.49	UJ	N/A	Yes
CHASS-0001M-0001-SO	OCTAHYDRO-TETRANITRO-1,3,5,7-TETRAZOCINE	0.25	0.25	mg/kg	UJ	CHASS-0002M-0001-SO	0.24	0.24	UJ	N/A	Yes
CHASS-0001M-0001-SO	PETN	0.5	0.5	mg/kg	UJ	CHASS-0002M-0001-SO	0.49	0.49	UJ	N/A	Yes
CHASS-0001M-0001-SO	HEXAVALENT CHROMIUM	0.32	0.81	mg/Kg	J	CHASS-0002M-0001-SO	0.81	0.81	U	N/A	Yes
CHASS-0001M-0001-SO	MERCURY	0.02	0.081	mg/Kg	J	CHASS-0002M-0001-SO	0.017	0.067	J	N/A	Yes
CHASS-0001M-0001-SO	4,4'-DDD	1.4	4	ug/Kg	UJ	CHASS-0002M-0001-SO	1.4	4	U	N/A	Yes
CHASS-0001M-0001-SO	4,4'-DDE	1.4	3.4	ug/Kg	UJ	CHASS-0002M-0001-SO	1.4	3.4	U	N/A	Yes
CHASS-0001M-0001-SO	4,4'-DDT	1.4	4	ug/Kg	UJ	CHASS-0002M-0001-SO	1.4	4	U	N/A	Yes
CHASS-0001M-0001-SO	ALDRIN	2.7	8.1	ug/Kg	UJ	CHASS-0002M-0001-SO	2.7	8.1	U	N/A	Yes
CHASS-0001M-0001-SO	ALPHA-BHC	2.7	5	ug/Kg	UJ	CHASS-0002M-0001-SO	2.7	5	U	N/A	Yes
CHASS-0001M-0001-SO	ALPHA-CHLORDANE	2.7	6.1	ug/Kg	UJ	CHASS-0002M-0001-SO	2.7	6.1	U	N/A	Yes
CHASS-0001M-0001-SO	BETA-BHC	2.7	7.1	ug/Kg	UJ	CHASS-0002M-0001-SO	2.7	7.1	U	N/A	Yes
CHASS-0001M-0001-SO	DELTA-BHC	2.7	8.1	ug/Kg	UJ	CHASS-0002M-0001-SO	2.7	8.1	U	N/A	Yes
CHASS-0001M-0001-SO	DIELDRIN	1.4	3.4	ug/Kg	UJ	CHASS-0002M-0001-SO	1.4	3.4	U	N/A	Yes
CHASS-0001M-0001-SO	ENDOSULFAN I	1.4	3.4	ug/Kg	UJ	CHASS-0002M-0001-SO	1.4	3.4	U	N/A	Yes
CHASS-0001M-0001-SO	ENDOSULFAN II	2.7	5	ug/Kg	UJ	CHASS-0002M-0001-SO	2.7	5	U	N/A	Yes
CHASS-0001M-0001-SO	ENDOSULFAN SULFATE	2.7	6.1	ug/Kg	UJ	CHASS-0002M-0001-SO	2.7	6.1	U	N/A	Yes
CHASS-0001M-0001-SO	ENDRIN	1.4	3.4	ug/Kg	UJ	CHASS-0002M-0001-SO	1.4	3.4	U	N/A	Yes
CHASS-0001M-0001-SO	ENDRIN ALDEHYDE	2.7	6.1	ug/Kg	UJ	CHASS-0002M-0001-SO	2.7	6.1	U	N/A	Yes
CHASS-0001M-0001-SO	ENDRIN KETONE	1.4	4	ug/Kg	UJ	CHASS-0002M-0001-SO	1.4	4	U	N/A	Yes
CHASS-0001M-0001-SO	GAMMA-BHC	2.7	5	ug/Kg	UJ	CHASS-0002M-0001-SO	2.7	5	U	N/A	Yes
CHASS-0001M-0001-SO	GAMMA-CHLORDANE	1.4	3.4	ug/Kg	UJ	CHASS-0002M-0001-SO	1.4	3.4	U	N/A	Yes
CHASS-0001M-0001-SO	HEPTACHLOR	2.7	7.1	ug/Kg	UJ	CHASS-0002M-0001-SO	2.7	7.1	U	N/A	Yes
CHASS-0001M-0001-SO	HEPTACHLOR EPOXIDE	2.7	5	ug/Kg	UJ	CHASS-0002M-0001-SO	2.7	5	U	N/A	Yes
CHASS-0001M-0001-SO	METHOXYCHLOR	6.7	10	ug/Kg	UJ	CHASS-0002M-0001-SO	6.7	10	U	N/A	Yes
CHASS-0001M-0001-SO	TOXAPHENE	40	140	ug/Kg	UJ	CHASS-0002M-0001-SO	40	140	U	N/A	Yes
CHASS-0001M-0001-SO	1,2,4-TRICHLOROBENZENE	27	50	ug/Kg	UJ	CHASS-0002M-0001-SO	27	50	U	N/A	Yes
CHASS-0001M-0001-SO	1,2-DICHLOROBENZENE	27	50	ug/Kg	UJ	CHASS-0002M-0001-SO	27	50	U	N/A	Yes
CHASS-0001M-0001-SO	1,3-DICHLOROBENZENE	27	50	ug/Kg	UJ	CHASS-0002M-0001-SO	27	50	U	N/A	Yes
CHASS-0001M-0001-SO	1,4-DICHLOROBENZENE	27	50	ug/Kg	UJ	CHASS-0002M-0001-SO	27	50	U	N/A	Yes
CHASS-0001M-0001-SO	2,4,5-TRICHLOROPHENOL	27	150	ug/Kg	UJ	CHASS-0002M-0001-SO	27	150	U	N/A	Yes
CHASS-0001M-0001-SO	2,4,6-TRICHLOROPHENOL	81	150	ug/Kg	UJ	CHASS-0002M-0001-SO	81	150	U	N/A	Yes
CHASS-0001M-0001-SO	2,4-DICHLOROPHENOL	27	150	ug/Kg	UJ	CHASS-0002M-0001-SO	27	150	U	N/A	Yes
CHASS-0001M-0001-SO	2,4-DIMETHYLPHENOL	81	150	ug/Kg	UJ	CHASS-0002M-0001-SO	81	150	U	N/A	Yes
CHASS-0001M-0001-SO	2,4-DINITROPHENOL	81	330	ug/Kg	UJ	CHASS-0002M-0001-SO	81	330	U	N/A	Yes
CHASS-0001M-0001-SO	2,4-DINITROTOLUENE	27	200	ug/Kg	UJ	CHASS-0002M-0001-SO	27	200	U	N/A	Yes
CHASS-0001M-0001-SO	2,6-DINITROTOLUENE	27	200	ug/Kg	UJ	CHASS-0002M-0001-SO	27	200	U	N/A	Yes
CHASS-0001M-0001-SO	2-CHLORONAPHTHALENE	3.3	50	ug/Kg	UJ	CHASS-0002M-0001-SO	3.3	50	U	N/A	Yes

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
CHASS-0001M-0001-SO	2-CHLOROPHENOL	27	50	ug/Kg	UJ	CHASS-0002M-0001-SO	27	50	U	N/A	Yes
CHASS-0001M-0001-SO	2-METHYLNAPHTHALENE	3.3	6.7	ug/Kg	UJ	CHASS-0002M-0001-SO	3.3	6.7	U	N/A	Yes
CHASS-0001M-0001-SO	2-METHYLPHENOL	81	200	ug/Kg	UJ	CHASS-0002M-0001-SO	81	200	U	N/A	Yes
CHASS-0001M-0001-SO	2-NITROANILINE	27	200	ug/Kg	UJ	CHASS-0002M-0001-SO	27	200	U	N/A	Yes
CHASS-0001M-0001-SO	2-NITROPHENOL	27	50	ug/Kg	UJ	CHASS-0002M-0001-SO	27	50	U	N/A	Yes
CHASS-0001M-0001-SO	3,3'-DICHLOROBENZIDINE	81	100	ug/Kg	UJ	CHASS-0002M-0001-SO	81	100	U	N/A	Yes
CHASS-0001M-0001-SO	3-METHYLPHENOL & 4-METHYLPHENOL	81	400	ug/Kg	UJ	CHASS-0002M-0001-SO	81	400	U	N/A	Yes
CHASS-0001M-0001-SO	3-NITROANILINE	81	200	ug/Kg	UJ	CHASS-0002M-0001-SO	81	200	U	N/A	Yes
CHASS-0001M-0001-SO	4,6-DINITRO-2-METHYLPHENOL	81	150	ug/Kg	UJ	CHASS-0002M-0001-SO	81	150	U	N/A	Yes
CHASS-0001M-0001-SO	4-BROMOPHENYL-PHENYLETHER	27	50	ug/Kg	UJ	CHASS-0002M-0001-SO	27	50	U	N/A	Yes
CHASS-0001M-0001-SO	4-CHLORO-3-METHYLPHENOL	27	150	ug/Kg	UJ	CHASS-0002M-0001-SO	27	150	U	N/A	Yes
CHASS-0001M-0001-SO	4-CHLOROANILINE	27	150	ug/Kg	UJ	CHASS-0002M-0001-SO	27	150	U	N/A	Yes
CHASS-0001M-0001-SO	4-CHLOROPHENYL-PHENYLETHER	27	50	ug/Kg	UJ	CHASS-0002M-0001-SO	27	50	U	N/A	Yes
CHASS-0001M-0001-SO	4-NITROANILINE	27	200	ug/Kg	UJ	CHASS-0002M-0001-SO	27	200	U	N/A	Yes
CHASS-0001M-0001-SO	4-NITROPHENOL	81	330	ug/Kg	UJ	CHASS-0002M-0001-SO	81	330	U	N/A	Yes
CHASS-0001M-0001-SO	ACENAPHTHENE	3.3	6.7	ug/Kg	UJ	CHASS-0002M-0001-SO	3.3	6.7	U	N/A	Yes
CHASS-0001M-0001-SO	ACENAPHTHYLENE	3.3	6.7	ug/Kg	UJ	CHASS-0002M-0001-SO	3.3	6.7	U	N/A	Yes
CHASS-0001M-0001-SO	ANTHRACENE	3.3	6.7	ug/Kg	UJ	CHASS-0002M-0001-SO	3.3	6.7	U	N/A	Yes
CHASS-0001M-0001-SO	BENZO(A)ANTHRACENE	3.3	6.7	ug/Kg	UJ	CHASS-0002M-0001-SO	3.3	6.7	U	N/A	Yes
CHASS-0001M-0001-SO	BENZO(A)PYRENE	3.3	6.7	ug/Kg	UJ	CHASS-0002M-0001-SO	3.3	6.7	U	N/A	Yes
CHASS-0001M-0001-SO	BENZO(B)FLUORANTHENE	3.3	6.7	ug/Kg	UJ	CHASS-0002M-0001-SO	3.3	6.7	U	N/A	Yes
CHASS-0001M-0001-SO	BENZO(G,H,I)PERYLENE	3.3	6.7	ug/Kg	UJ	CHASS-0002M-0001-SO	3.3	6.7	U	N/A	Yes
CHASS-0001M-0001-SO	BENZO(K)FLUORANTHENE	3.3	6.7	ug/Kg	UJ	CHASS-0002M-0001-SO	3.3	6.7	U	N/A	Yes
CHASS-0001M-0001-SO	BENZOIC ACID	340	670	ug/Kg	UJ	CHASS-0002M-0001-SO	340	670	U	N/A	Yes
CHASS-0001M-0001-SO	BENZYL ALCOHOL	27	330	ug/Kg	UJ	CHASS-0002M-0001-SO	27	330	U	N/A	Yes
CHASS-0001M-0001-SO	BIS(2-CHLOROETHOXY)METHANE	27	100	ug/Kg	UJ	CHASS-0002M-0001-SO	27	100	U	N/A	Yes
CHASS-0001M-0001-SO	BIS(2-CHLOROETHYL) ETHER	3.3	100	ug/Kg	UJ	CHASS-0002M-0001-SO	3.3	100	U	N/A	Yes
CHASS-0001M-0001-SO	BIS(2-CHLOROISOPROPYL) ETHER	27	100	ug/Kg	UJ	CHASS-0002M-0001-SO	27	100	U	N/A	Yes
CHASS-0001M-0001-SO	BIS(2-ETHYLHEXYL) PHTHALATE	80	50	ug/Kg	UJ	CHASS-0002M-0001-SO	81	50	U	N/A	Yes
CHASS-0001M-0001-SO	BUTYLBENZYL PHTHALATE	27	50	ug/Kg	UJ	CHASS-0002M-0001-SO	27	50	U	N/A	Yes
CHASS-0001M-0001-SO	CARBAZOLE	27	50	ug/Kg	UJ	CHASS-0002M-0001-SO	27	50	U	N/A	Yes
CHASS-0001M-0001-SO	CHRYSENE	3.3	6.7	ug/Kg	UJ	CHASS-0002M-0001-SO	3.3	6.7	U	N/A	Yes
CHASS-0001M-0001-SO	DIBENZO(A,H)ANTHRACENE	3.3	6.7	ug/Kg	UJ	CHASS-0002M-0001-SO	3.3	6.7	U	N/A	Yes
CHASS-0001M-0001-SO	DIBENZOFURAN	3.3	50	ug/Kg	UJ	CHASS-0002M-0001-SO	3.3	50	U	N/A	Yes
CHASS-0001M-0001-SO	DIETHYL PHTHALATE	21	50	ug/Kg	J	CHASS-0002M-0001-SO	26	50	J	N/A	Yes
CHASS-0001M-0001-SO	DIMETHYL PHTHALATE	27	50	ug/Kg	UJ	CHASS-0002M-0001-SO	27	50	U	N/A	Yes
CHASS-0001M-0001-SO	DI-N-BUTYL PHTHALATE	18	50	ug/Kg	J	CHASS-0002M-0001-SO	22	50	J	N/A	Yes
CHASS-0001M-0001-SO	DI-N-OCTYL PHTHALATE	27	50	ug/Kg	UJ	CHASS-0002M-0001-SO	27	50	U	N/A	Yes
CHASS-0001M-0001-SO	FLUORANTHENE	3.3	6.7	ug/Kg	UJ	CHASS-0002M-0001-SO	3.3	6.7	U	N/A	Yes
CHASS-0001M-0001-SO	FLUORENE	3.3	6.7	ug/Kg	UJ	CHASS-0002M-0001-SO	3.3	6.7	U	N/A	Yes

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
CHASS-0001M-0001-SO	HEXACHLOROBENZENE	3.3	6.7	ug/Kg	UJ	CHASS-0002M-0001-SO	3.3	6.7	U	N/A	Yes
CHASS-0001M-0001-SO	HEXACHLOROBUTADIENE	27	50	ug/Kg	UJ	CHASS-0002M-0001-SO	27	50	U	N/A	Yes
CHASS-0001M-0001-SO	HEXACHLOROCYCLOPENTADIENE	27	330	ug/Kg	UJ	CHASS-0002M-0001-SO	27	330	U	N/A	Yes
CHASS-0001M-0001-SO	HEXACHLOROETHANE	27	50	ug/Kg	UJ	CHASS-0002M-0001-SO	27	50	U	N/A	Yes
CHASS-0001M-0001-SO	INDENO(1,2,3-CD)PYRENE	3.3	6.7	ug/Kg	UJ	CHASS-0002M-0001-SO	3.3	6.7	U	N/A	Yes
CHASS-0001M-0001-SO	ISOPHORONE	27	50	ug/Kg	UJ	CHASS-0002M-0001-SO	27	50	U	N/A	Yes
CHASS-0001M-0001-SO	NAPHTHALENE	3.3	6.7	ug/Kg	UJ	CHASS-0002M-0001-SO	3.3	6.7	U	N/A	Yes
CHASS-0001M-0001-SO	NITROBENZENE	3.3	100	ug/Kg	UJ	CHASS-0002M-0001-SO	3.3	100	U	N/A	Yes
CHASS-0001M-0001-SO	N-NITROSO-DI-N-PROPYLAMINE	27	50	ug/Kg	UJ	CHASS-0002M-0001-SO	27	50	U	N/A	Yes
CHASS-0001M-0001-SO	N-NITROSODIPHENYLAMINE	27	50	ug/Kg	UJ	CHASS-0002M-0001-SO	27	50	U	N/A	Yes
CHASS-0001M-0001-SO	PENTACHLOROPHENOL	81	150	ug/Kg	UJ	CHASS-0002M-0001-SO	81	150	U	N/A	Yes
CHASS-0001M-0001-SO	PHENANTHRENE	3.3	6.7	ug/Kg	UJ	CHASS-0002M-0001-SO	7.3	6.7		N/A	Yes
CHASS-0001M-0001-SO	PHENOL	27	50	ug/Kg	UJ	CHASS-0002M-0001-SO	27	50	U	N/A	Yes
CHASS-0001M-0001-SO	PYRENE	3.3	6.7	ug/Kg	UJ	CHASS-0002M-0001-SO	3.3	6.7	U	N/A	Yes
CHASS-0001M-0001-SO	NITROGUANIDINE	0.25	0.25	mg/kg	UJ	CHASS-0002M-0001-SO	0.24	0.24	UJ	N/A	Yes
CHASS-0001M-0001-SO	NITROCELLULOSE	6.2	6.2	mg/kg	U	CHASS-0002M-0001-SO	5.7	5.7	U	N/A	Yes
CHASS-0001V-0001-SO	1,1,1-TRICHLOROETHANE	11	270	ug/Kg	UJ	CHASS-0002V-0001-SO	11	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	1,1,2,2-TETRACHLOROETHANE	27	270	ug/Kg	UJ	CHASS-0002V-0001-SO	28	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	1,1,2-TRICHLOROETHANE	27	270	ug/Kg	UJ	CHASS-0002V-0001-SO	28	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	1,1-DICHLOROETHANE	27	270	ug/Kg	UJ	CHASS-0002V-0001-SO	28	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	1,1-DICHLOROETHENE	27	270	ug/Kg	UJ	CHASS-0002V-0001-SO	28	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	1,2-DIBROMOETHANE	27	270	ug/Kg	UJ	CHASS-0002V-0001-SO	28	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	1,2-DICHLOROETHANE	27	270	ug/Kg	UJ	CHASS-0002V-0001-SO	28	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	1,2-DICHLOROETHENE (TOTAL)	8.7	530	ug/Kg	UJ	CHASS-0002V-0001-SO	9.3	570	UJ	N/A	Yes
CHASS-0001V-0001-SO	1,2-DICHLOROPROPANE	11	270	ug/Kg	UJ	CHASS-0002V-0001-SO	11	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	2-BUTANONE	110	1100	ug/Kg	J	CHASS-0002V-0001-SO	110	1100	UJ	N/A	Yes
CHASS-0001V-0001-SO	2-HEXANONE	53	1100	ug/Kg	UJ	CHASS-0002V-0001-SO	57	1100	UJ	N/A	Yes
CHASS-0001V-0001-SO	4-METHYL-2-PENTANONE	110	1100	ug/Kg	UJ	CHASS-0002V-0001-SO	110	1100	UJ	N/A	Yes
CHASS-0001V-0001-SO	ACETONE	210	1100	ug/Kg	UJ	CHASS-0002V-0001-SO	230	1100	UJ	N/A	Yes
CHASS-0001V-0001-SO	BENZENE	27	270	ug/Kg	UJ	CHASS-0002V-0001-SO	28	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	BROMOCHLOROMETHANE	27	270	ug/Kg	UJ	CHASS-0002V-0001-SO	28	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	BROMODICHLOROMETHANE	27	270	ug/Kg	UJ	CHASS-0002V-0001-SO	28	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	BROMOFORM	27	270	ug/Kg	UJ	CHASS-0002V-0001-SO	28	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	BROMOMETHANE	53	270	ug/Kg	UJ	CHASS-0002V-0001-SO	57	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	CARBON DISULFIDE	27	270	ug/Kg	UJ	CHASS-0002V-0001-SO	28	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	CARBON TETRACHLORIDE	11	270	ug/Kg	UJ	CHASS-0002V-0001-SO	11	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	CHLOROBENZENE	11	270	ug/Kg	UJ	CHASS-0002V-0001-SO	11	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	CHLOROETHANE	110	270	ug/Kg	UJ	CHASS-0002V-0001-SO	110	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	CHLOROFORM	27	270	ug/Kg	UJ	CHASS-0002V-0001-SO	28	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	CHLOROMETHANE	27	270	ug/Kg	UJ	CHASS-0002V-0001-SO	28	280	UJ	N/A	Yes

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
CHASS-0001V-0001-SO	CIS-1,2-DICHLOROETHENE	11	270	ug/Kg	UJ	CHASS-0002V-0001-SO	11	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	CIS-1,3-DICHLOROPROPENE	11	270	ug/Kg	UJ	CHASS-0002V-0001-SO	11	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	DIBROMOCHLOROMETHANE	27	270	ug/Kg	UJ	CHASS-0002V-0001-SO	28	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	ETHYL BENZENE	11	270	ug/Kg	UJ	CHASS-0002V-0001-SO	11	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	METHYLENE CHLORIDE	83	270	ug/Kg	J	CHASS-0002V-0001-SO	110	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	STYRENE	11	270	ug/Kg	UJ	CHASS-0002V-0001-SO	11	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	TETRACHLOROETHENE	27	270	ug/Kg	UJ	CHASS-0002V-0001-SO	28	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	TOLUENE	27	270	ug/Kg	UJ	CHASS-0002V-0001-SO	28	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	TOTAL XYLENES	32	530	ug/Kg	UJ	CHASS-0002V-0001-SO	34	570	UJ	N/A	Yes
CHASS-0001V-0001-SO	TRANS-1,2-DICHLOROETHENE	27	270	ug/Kg	UJ	CHASS-0002V-0001-SO	28	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	TRANS-1,3-DICHLOROPROPENE	27	270	ug/Kg	UJ	CHASS-0002V-0001-SO	28	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	TRICHLOROETHENE	27	270	ug/Kg	UJ	CHASS-0002V-0001-SO	28	280	UJ	N/A	Yes
CHASS-0001V-0001-SO	VINYL CHLORIDE	27	270	ug/Kg	UJ	CHASS-0002V-0001-SO	28	280	UJ	N/A	Yes
L12SS-300M-0001-SO	ALUMINUM	20000	99	mg/Kg		L12SS-301M-0001-SO	24000	87	J-	18	N/A
L12SS-300M-0001-SO	ANTIMONY	0.96	0.2	mg/Kg	J-	L12SS-301M-0001-SO	1.4	1.7	J-	N/A	Yes
L12SS-300M-0001-SO	ARSENIC	16	0.49	mg/Kg	J-	L12SS-301M-0001-SO	12	0.43	J-	29	N/A
L12SS-300M-0001-SO	BARIUM	79	0.49	mg/Kg	J-	L12SS-301M-0001-SO	84	4.3	J-	6	N/A
L12SS-300M-0001-SO	BERYLLIUM	0.86	0.99	mg/Kg	J	L12SS-301M-0001-SO	0.94	0.87		N/A	Yes
L12SS-300M-0001-SO	CADMIUM	1	2	mg/Kg	J	L12SS-301M-0001-SO	1.4	1.7	J-	N/A	Yes
L12SS-300M-0001-SO	CALCIUM	17000	2000	mg/Kg		L12SS-301M-0001-SO	19000	1700	J-	11	N/A
L12SS-300M-0001-SO	CHROMIUM	57	0.49	mg/Kg	J-	L12SS-301M-0001-SO	58	0.43	J-	2	N/A
L12SS-300M-0001-SO	COBALT	7.4	0.99	mg/Kg	J-	L12SS-301M-0001-SO	6.7	0.87	J-	10	N/A
L12SS-300M-0001-SO	COPPER	440	0.39	mg/Kg	J-	L12SS-301M-0001-SO	650	3.5	J-	39	N/A
L12SS-300M-0001-SO	IRON	25000	49	mg/Kg		L12SS-301M-0001-SO	25000	43		0	N/A
L12SS-300M-0001-SO	LEAD	67	0.3	mg/Kg	J-	L12SS-301M-0001-SO	110	2.6	J-	49	N/A
L12SS-300M-0001-SO	MAGNESIUM	4200	99	mg/Kg		L12SS-301M-0001-SO	4300	87		2	N/A
L12SS-300M-0001-SO	MANGANESE	1200	4.9	mg/Kg	J-	L12SS-301M-0001-SO	820	4.3	J-	38	N/A
L12SS-300M-0001-SO	NICKEL	51	0.49	mg/Kg	J-	L12SS-301M-0001-SO	54	0.43	J-	6	N/A
L12SS-300M-0001-SO	POTASSIUM	980	99	mg/Kg		L12SS-301M-0001-SO	980	87		0	N/A
L12SS-300M-0001-SO	SELENIUM	1.4	0.49	mg/Kg	J-	L12SS-301M-0001-SO	1.2	0.43	J-	N/A	Yes
L12SS-300M-0001-SO	SILVER	0.26	0.99	mg/Kg	J	L12SS-301M-0001-SO	0.32	0.87	J	N/A	Yes
L12SS-300M-0001-SO	SODIUM	110	99	mg/Kg		L12SS-301M-0001-SO	130	87		N/A	Yes
L12SS-300M-0001-SO	THALLIUM	0.099	0.2	mg/Kg	J	L12SS-301M-0001-SO	1.3	1.7	UJ	N/A	Yes
L12SS-300M-0001-SO	VANADIUM	19	0.49	mg/Kg		L12SS-301M-0001-SO	21	0.43		10	N/A
L12SS-300M-0001-SO	ZINC	280	39	mg/Kg	J-	L12SS-301M-0001-SO	340	35	J-	19	N/A
L12SS-300M-0001-SO	AROCLOR 1016	130	330	ug/Kg	U	L12SS-301M-0001-SO	130	330	U	N/A	Yes
L12SS-300M-0001-SO	AROCLOR 1221	130	260	ug/Kg	U	L12SS-301M-0001-SO	130	260	U	N/A	Yes
L12SS-300M-0001-SO	AROCLOR 1232	130	230	ug/Kg	U	L12SS-301M-0001-SO	130	230	U	N/A	Yes
L12SS-300M-0001-SO	AROCLOR 1242	130	210	ug/Kg	U	L12SS-301M-0001-SO	130	210	U	N/A	Yes

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
L12SS-300M-0001-SO	AROCLOR 1248	130	280	ug/Kg	U	L12SS-301M-0001-SO	130	280	U	N/A	Yes
L12SS-300M-0001-SO	AROCLOR 1254	130	280	ug/Kg	U	L12SS-301M-0001-SO	130	280	U	N/A	Yes
L12SS-300M-0001-SO	AROCLOR 1260	770	280	ug/Kg		L12SS-301M-0001-SO	930	280		N/A	Yes
L12SS-300M-0001-SO	1,3,5-TRINITROBENZENE	0.24	0.24	mg/kg	U	L12SS-301M-0001-SO	0.25	0.25	U	N/A	Yes
L12SS-300M-0001-SO	1,3-DINITROBENZENE	0.24	0.24	mg/kg	U	L12SS-301M-0001-SO	0.25	0.25	U	N/A	Yes
L12SS-300M-0001-SO	2,4,6-TRINITROTOLUENE	0.24	0.24	mg/kg	U	L12SS-301M-0001-SO	0.25	0.25	U	N/A	Yes
L12SS-300M-0001-SO	2,4-DINITROTOLUENE	0.24	0.24	mg/kg	U	L12SS-301M-0001-SO	0.25	0.25	U	N/A	Yes
L12SS-300M-0001-SO	2,6-DINITROTOLUENE	0.24	0.24	mg/kg	U	L12SS-301M-0001-SO	0.25	0.25	U	N/A	Yes
L12SS-300M-0001-SO	2-AMINO-4,6-DINITROTOLUENE	0.24	0.24	mg/kg	U	L12SS-301M-0001-SO	0.25	0.25	U	N/A	Yes
L12SS-300M-0001-SO	2-NITROTOLUENE	0.24	0.24	mg/kg	U	L12SS-301M-0001-SO	0.25	0.25	U	N/A	Yes
L12SS-300M-0001-SO	3-NITROTOLUENE	0.24	0.24	mg/kg	U	L12SS-301M-0001-SO	0.25	0.25	U	N/A	Yes
L12SS-300M-0001-SO	4-AMINO-2,6-DINITROTOLUENE	0.24	0.24	mg/kg	U	L12SS-301M-0001-SO	0.25	0.25	U	N/A	Yes
L12SS-300M-0001-SO	4-NITROTOLUENE	0.24	0.24	mg/kg	U	L12SS-301M-0001-SO	0.25	0.25	U	N/A	Yes
L12SS-300M-0001-SO	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	0.24	0.24	mg/kg	U	L12SS-301M-0001-SO	0.25	0.25	U	N/A	Yes
L12SS-300M-0001-SO	METHYL-2,4,6-TRINITROPHENYLNITRAMINE	0.17	0.24	mg/kg	J	L12SS-301M-0001-SO	0.25	0.25		N/A	Yes
L12SS-300M-0001-SO	NITROBENZENE	0.24	0.24	mg/kg	U	L12SS-301M-0001-SO	0.2	0.25	J	N/A	Yes
L12SS-300M-0001-SO	NITROGLYCERINE	0.48	0.48	mg/kg	U	L12SS-301M-0001-SO	0.5	0.5	U	N/A	Yes
L12SS-300M-0001-SO	OCTAHYDRO-TETRANITRO-1,3,5,7-TETRAZOCINE	0.24	0.24	mg/kg	U	L12SS-301M-0001-SO	0.25	0.25	U	N/A	Yes
L12SS-300M-0001-SO	PETN	0.48	0.48	mg/kg	U	L12SS-301M-0001-SO	0.5	0.5	U	N/A	Yes
L12SS-300M-0001-SO	HEXAVALENT CHROMIUM	0.82	0.82	mg/Kg	U	L12SS-301M-0001-SO	0.29	0.82	J	N/A	Yes
L12SS-300M-0001-SO	MERCURY	0.088	0.076	mg/Kg		L12SS-301M-0001-SO	0.11	0.089		N/A	Yes
L12SS-300M-0001-SO	4,4'-DDD	34	100	ug/Kg		L12SS-301M-0001-SO	34	100	U	N/A	Yes
L12SS-300M-0001-SO	4,4'-DDE	34	87	ug/Kg		L12SS-301M-0001-SO	10	8.7	J-	N/A	Yes
L12SS-300M-0001-SO	4,4'-DDT	34	100	ug/Kg	U	L12SS-301M-0001-SO	34	100	U	N/A	Yes
L12SS-300M-0001-SO	ALDRIN	68	210	ug/Kg	U	L12SS-301M-0001-SO	68	210	U	N/A	Yes
L12SS-300M-0001-SO	ALPHA-BHC	68	130	ug/Kg		L12SS-301M-0001-SO	68	130	U	N/A	Yes
L12SS-300M-0001-SO	ALPHA-CHLORDANE	68	150	ug/Kg	U	L12SS-301M-0001-SO	68	150	U	N/A	Yes
L12SS-300M-0001-SO	BETA-BHC	68	180	ug/Kg		L12SS-301M-0001-SO	68	180	U	N/A	Yes
L12SS-300M-0001-SO	DELTA-BHC	68	210	ug/Kg	U	L12SS-301M-0001-SO	68	210	U	N/A	Yes
L12SS-300M-0001-SO	DIELDRIN	34	87	ug/Kg	U	L12SS-301M-0001-SO	34	87	U	N/A	Yes
L12SS-300M-0001-SO	ENDOSULFAN I	34	87	ug/Kg	U	L12SS-301M-0001-SO	34	87	U	N/A	Yes
L12SS-300M-0001-SO	ENDOSULFAN II	68	130	ug/Kg	U	L12SS-301M-0001-SO	68	130	U	N/A	Yes
L12SS-300M-0001-SO	ENDOSULFAN SULFATE	68	150	ug/Kg	U	L12SS-301M-0001-SO	68	150	U	N/A	Yes
L12SS-300M-0001-SO	ENDRIN	34	87	ug/Kg	U	L12SS-301M-0001-SO	34	87	U	N/A	Yes
L12SS-300M-0001-SO	ENDRIN ALDEHYDE	68	150	ug/Kg	U	L12SS-301M-0001-SO	24	15	J-	N/A	Yes
L12SS-300M-0001-SO	ENDRIN KETONE	80	100	ug/Kg	J	L12SS-301M-0001-SO	130	100		N/A	Yes
L12SS-300M-0001-SO	GAMMA-BHC	68	130	ug/Kg		L12SS-301M-0001-SO	68	130	U	N/A	Yes
L12SS-300M-0001-SO	GAMMA-CHLORDANE	34	87	ug/Kg		L12SS-301M-0001-SO	71	87	J	N/A	Yes

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
L12SS-300M-0001-SO	HEPTACHLOR	68	180	ug/Kg	U	L12SS-301M-0001-SO	68	180	U	N/A	Yes
L12SS-300M-0001-SO	HEPTACHLOR EPOXIDE	68	130	ug/Kg	U	L12SS-301M-0001-SO	68	130	U	N/A	Yes
L12SS-300M-0001-SO	METHOXYCHLOR	170	260	ug/Kg	U	L12SS-301M-0001-SO	280	26	J-	N/A	Yes
L12SS-300M-0001-SO	TOXAPHENE	1000	3400	ug/Kg		L12SS-301M-0001-SO	1000	3400	U	N/A	Yes
L12SS-300M-0001-SO	1,2,4-TRICHLOROBENZENE	350	640	ug/Kg	UJ	L12SS-301M-0001-SO	550	1000	UJ	N/A	Yes
L12SS-300M-0001-SO	1,2-DICHLOROBENZENE	350	640	ug/Kg	UJ	L12SS-301M-0001-SO	550	1000	UJ	N/A	Yes
L12SS-300M-0001-SO	1,3-DICHLOROBENZENE	350	640	ug/Kg	UJ	L12SS-301M-0001-SO	550	1000	UJ	N/A	Yes
L12SS-300M-0001-SO	1,4-DICHLOROBENZENE	350	640	ug/Kg	U	L12SS-301M-0001-SO	550	1000	U	N/A	Yes
L12SS-300M-0001-SO	2,4,5-TRICHLOROPHENOL	350	1900	ug/Kg	UJ	L12SS-301M-0001-SO	550	3100	UJ	N/A	Yes
L12SS-300M-0001-SO	2,4,6-TRICHLOROPHENOL	1000	1900	ug/Kg	UJ	L12SS-301M-0001-SO	1600	3100	UJ	N/A	Yes
L12SS-300M-0001-SO	2,4-DICHLOROPHENOL	350	1900	ug/Kg	U	L12SS-301M-0001-SO	550	3100	U	N/A	Yes
L12SS-300M-0001-SO	2,4-DIMETHYLPHENOL	1000	1900	ug/Kg	U	L12SS-301M-0001-SO	1600	3100	U	N/A	Yes
L12SS-300M-0001-SO	2,4-DINITROPHENOL	1000	4200	ug/Kg	U	L12SS-301M-0001-SO	1600	6800	U	N/A	Yes
L12SS-300M-0001-SO	2,4-DINITROTOLUENE	350	2600	ug/Kg	U	L12SS-301M-0001-SO	550	4100	U	N/A	Yes
L12SS-300M-0001-SO	2,6-DINITROTOLUENE	350	2600	ug/Kg	U	L12SS-301M-0001-SO	550	4100	U	N/A	Yes
L12SS-300M-0001-SO	2-CHLORONAPHTHALENE	42	640	ug/Kg	U	L12SS-301M-0001-SO	68	1000	U	N/A	Yes
L12SS-300M-0001-SO	2-CHLOROPHENOL	350	640	ug/Kg	U	L12SS-301M-0001-SO	550	1000	U	N/A	Yes
L12SS-300M-0001-SO	2-METHYLNAPHTHALENE	530	85	ug/Kg		L12SS-301M-0001-SO	720	140		30	N/A
L12SS-300M-0001-SO	2-METHYLPHENOL	1000	2600	ug/Kg	U	L12SS-301M-0001-SO	1600	4100	U	N/A	Yes
L12SS-300M-0001-SO	2-NITROANILINE	350	2600	ug/Kg	U	L12SS-301M-0001-SO	550	4100	U	N/A	Yes
L12SS-300M-0001-SO	2-NITROPHENOL	350	640	ug/Kg	U	L12SS-301M-0001-SO	550	1000	U	N/A	Yes
L12SS-300M-0001-SO	3,3'-DICHLOROBENZIDINE	1000	1300	ug/Kg	U	L12SS-301M-0001-SO	1600	2100	U	N/A	Yes
L12SS-300M-0001-SO	3-METHYLPHENOL & 4-METHYLPHENOL	1000	5100	ug/Kg	U	L12SS-301M-0001-SO	1600	8200	U	N/A	Yes
L12SS-300M-0001-SO	3-NITROANILINE	1000	2600	ug/Kg	U	L12SS-301M-0001-SO	1600	4100	U	N/A	Yes
L12SS-300M-0001-SO	4,6-DINITRO-2-METHYLPHENOL	1000	1900	ug/Kg	U	L12SS-301M-0001-SO	1600	3100	U	N/A	Yes
L12SS-300M-0001-SO	4-BROMOPHENYL-PHENYLETHER	350	640	ug/Kg	U	L12SS-301M-0001-SO	550	1000	U	N/A	Yes
L12SS-300M-0001-SO	4-CHLORO-3-METHYLPHENOL	350	1900	ug/Kg	U	L12SS-301M-0001-SO	550	3100	U	N/A	Yes
L12SS-300M-0001-SO	4-CHLOROANILINE	350	1900	ug/Kg	U	L12SS-301M-0001-SO	550	3100	U	N/A	Yes
L12SS-300M-0001-SO	4-CHLOROPHENYL-PHENYLETHER	350	640	ug/Kg	U	L12SS-301M-0001-SO	550	1000	U	N/A	Yes
L12SS-300M-0001-SO	4-NITROANILINE	350	2600	ug/Kg	U	L12SS-301M-0001-SO	550	4100	U	N/A	Yes
L12SS-300M-0001-SO	4-NITROPHENOL	1000	4200	ug/Kg	U	L12SS-301M-0001-SO	1600	6800	U	N/A	Yes
L12SS-300M-0001-SO	ACENAPHTHENE	570	85	ug/Kg		L12SS-301M-0001-SO	750	140		27	N/A
L12SS-300M-0001-SO	ACENAPHTHYLENE	280	85	ug/Kg		L12SS-301M-0001-SO	600	140		N/A	No
L12SS-300M-0001-SO	ANTHRACENE	2300	85	ug/Kg		L12SS-301M-0001-SO	3700	140		47	N/A
L12SS-300M-0001-SO	BENZO(A)ANTHRACENE	5000	85	ug/Kg		L12SS-301M-0001-SO	8300	140		50	N/A
L12SS-300M-0001-SO	BENZO(A)PYRENE	4500	85	ug/Kg		L12SS-301M-0001-SO	6800	140		41	N/A
L12SS-300M-0001-SO	BENZO(B)FLUORANTHENE	5200	85	ug/Kg		L12SS-301M-0001-SO	8500	140		48	N/A
L12SS-300M-0001-SO	BENZO(G,H,I)PERYLENE	2600	85	ug/Kg		L12SS-301M-0001-SO	3800	140		38	N/A

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
L12SS-300M-0001-SO	BENZO(K)FLUORANTHENE	3600	85	ug/Kg		L12SS-301M-0001-SO	4400	140		20	N/A
L12SS-300M-0001-SO	BENZOIC ACID	4300	8400	ug/Kg	U	L12SS-301M-0001-SO	6800	14000	U	N/A	Yes
L12SS-300M-0001-SO	BENZYL ALCOHOL	350	4200	ug/Kg	U	L12SS-301M-0001-SO	550	6800	U	N/A	Yes
L12SS-300M-0001-SO	BIS(2-CHLOROETHOXY)METHANE	350	1300	ug/Kg	U	L12SS-301M-0001-SO	550	2100	U	N/A	Yes
L12SS-300M-0001-SO	BIS(2-CHLOROETHYL) ETHER	42	1300	ug/Kg	U	L12SS-301M-0001-SO	68	2100	U	N/A	Yes
L12SS-300M-0001-SO	BIS(2-CHLOROISOPROPYL) ETHER	350	1300	ug/Kg	U	L12SS-301M-0001-SO	550	2100	U	N/A	Yes
L12SS-300M-0001-SO	BIS(2-ETHYLHEXYL) PHTHALATE	350	640	ug/Kg	U	L12SS-301M-0001-SO	550	1000	U	N/A	Yes
L12SS-300M-0001-SO	BUTYLBENZYL PHTHALATE	350	640	ug/Kg	U	L12SS-301M-0001-SO	550	1000	U	N/A	Yes
L12SS-300M-0001-SO	CARBAZOLE	680	640	ug/Kg		L12SS-301M-0001-SO	980	1000	J	N/A	Yes
L12SS-300M-0001-SO	CHRYSENE	5400	85	ug/Kg		L12SS-301M-0001-SO	8100	140		40	N/A
L12SS-300M-0001-SO	DIBENZO(A,H)ANTHRACENE	750	85	ug/Kg		L12SS-301M-0001-SO	960	140		25	N/A
L12SS-300M-0001-SO	DIBENZOFURAN	450	640	ug/Kg	J	L12SS-301M-0001-SO	660	1000	J	N/A	Yes
L12SS-300M-0001-SO	DIETHYL PHTHALATE	350	640	ug/Kg	U	L12SS-301M-0001-SO	550	1000	U	N/A	Yes
L12SS-300M-0001-SO	DIMETHYL PHTHALATE	350	640	ug/Kg	U	L12SS-301M-0001-SO	550	1000	U	N/A	Yes
L12SS-300M-0001-SO	DI-N-BUTYL PHTHALATE	350	640	ug/Kg	U	L12SS-301M-0001-SO	550	1000	U	N/A	Yes
L12SS-300M-0001-SO	DI-N-OCTYL PHTHALATE	350	640	ug/Kg	U	L12SS-301M-0001-SO	550	1000	U	N/A	Yes
L12SS-300M-0001-SO	FLUORANTHENE	11000	85	ug/Kg		L12SS-301M-0001-SO	16000	140		37	N/A
L12SS-300M-0001-SO	FLUORENE	740	85	ug/Kg		L12SS-301M-0001-SO	880	140		17	N/A
L12SS-300M-0001-SO	HEXACHLOROBENZENE	42	85	ug/Kg	U	L12SS-301M-0001-SO	68	140	U	N/A	Yes
L12SS-300M-0001-SO	HEXACHLOROBUTADIENE	350	640	ug/Kg	UJ	L12SS-301M-0001-SO	550	1000	UJ	N/A	Yes
L12SS-300M-0001-SO	HEXACHLOROCYCLOPENTADIENE	350	4200	ug/Kg	U	L12SS-301M-0001-SO	550	6800	U	N/A	Yes
L12SS-300M-0001-SO	HEXACHLOROETHANE	350	640	ug/Kg	U	L12SS-301M-0001-SO	550	1000	U	N/A	Yes
L12SS-300M-0001-SO	INDENO(1,2,3-CD)PYRENE	2600	85	ug/Kg		L12SS-301M-0001-SO	3700	140		35	N/A
L12SS-300M-0001-SO	ISOPHORONE	350	640	ug/Kg	U	L12SS-301M-0001-SO	550	1000	U	N/A	Yes
L12SS-300M-0001-SO	NAPHTHALENE	440	85	ug/Kg		L12SS-301M-0001-SO	540	140		20	N/A
L12SS-300M-0001-SO	NITROBENZENE	42	1300	ug/Kg	U	L12SS-301M-0001-SO	68	2100	U	N/A	Yes
L12SS-300M-0001-SO	N-NITROSO-DI-N-PROPYLAMINE	350	640	ug/Kg	U	L12SS-301M-0001-SO	550	1000	U	N/A	Yes
L12SS-300M-0001-SO	N-NITROSODIPHENYLAMINE	350	640	ug/Kg	U	L12SS-301M-0001-SO	550	1000	U	N/A	Yes
L12SS-300M-0001-SO	PENTACHLOROPHENOL	1000	1900	ug/Kg	U	L12SS-301M-0001-SO	1600	3100	U	N/A	Yes
L12SS-300M-0001-SO	PHENANTHRENE	6400	85	ug/Kg		L12SS-301M-0001-SO	8700	140		30	N/A
L12SS-300M-0001-SO	PHENOL	350	640	ug/Kg	U	L12SS-301M-0001-SO	550	1000	U	N/A	Yes
L12SS-300M-0001-SO	PYRENE	9000	85	ug/Kg		L12SS-301M-0001-SO	13000	140		36	N/A
L12SS-300M-0001-SO	NITROGUANIDINE	0.25	0.25	mg/kg	U	L12SS-301M-0001-SO	0.25	0.25	U	N/A	Yes
L12SS-300M-0001-SO	NITROCELLULOSE	2.1	5.1	mg/kg	J	L12SS-301M-0001-SO	2.6	5.1	J-	N/A	Yes
L12SS-300V-0001-SO	1,1,1-TRICHLOROETHANE	9.1	230	ug/Kg	UJ	L12SS-301V-0001-SO	7	180	UJ	N/A	Yes
L12SS-300V-0001-SO	1,1,2,2-TETRACHLOROETHANE	23	230	ug/Kg	UJ	L12SS-301V-0001-SO	18	180	UJ	N/A	Yes
L12SS-300V-0001-SO	1,1,2-TRICHLOROETHANE	23	230	ug/Kg	UJ	L12SS-301V-0001-SO	18	180	UJ	N/A	Yes
L12SS-300V-0001-SO	1,1-DICHLOROETHANE	23	230	ug/Kg	UJ	L12SS-301V-0001-SO	18	180	UJ	N/A	Yes

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
L12SS-300V-0001-SO	1,1-DICHLOROETHENE	23	230	ug/Kg	UJ	L12SS-301V-0001-SO	18	180	UJ	N/A	Yes
L12SS-300V-0001-SO	1,2-DIBROMOETHANE	23	230	ug/Kg	UJ	L12SS-301V-0001-SO	18	180	UJ	N/A	Yes
L12SS-300V-0001-SO	1,2-DICHLOROETHANE	23	230	ug/Kg	UJ	L12SS-301V-0001-SO	18	180	UJ	N/A	Yes
L12SS-300V-0001-SO	1,2-DICHLOROETHENE (TOTAL)	7.5	460	ug/Kg	UJ	L12SS-301V-0001-SO	5.8	350	UJ	N/A	Yes
L12SS-300V-0001-SO	1,2-DICHLOROPROPANE	9.1	230	ug/Kg	UJ	L12SS-301V-0001-SO	7	180	UJ	N/A	Yes
L12SS-300V-0001-SO	2-BUTANONE	91	910	ug/Kg	UJ	L12SS-301V-0001-SO	70	700	UJ	N/A	Yes
L12SS-300V-0001-SO	2-HEXANONE	46	910	ug/Kg	UJ	L12SS-301V-0001-SO	35	700	UJ	N/A	Yes
L12SS-300V-0001-SO	4-METHYL-2-PENTANONE	91	910	ug/Kg	UJ	L12SS-301V-0001-SO	70	700	UJ	N/A	Yes
L12SS-300V-0001-SO	ACETONE	180	910	ug/Kg	UJ	L12SS-301V-0001-SO	140	700	UJ	N/A	Yes
L12SS-300V-0001-SO	BENZENE	23	230	ug/Kg	UJ	L12SS-301V-0001-SO	18	180	UJ	N/A	Yes
L12SS-300V-0001-SO	BROMOCHLOROMETHANE	23	230	ug/Kg	UJ	L12SS-301V-0001-SO	18	180	UJ	N/A	Yes
L12SS-300V-0001-SO	BROMODICHLOROMETHANE	23	230	ug/Kg	UJ	L12SS-301V-0001-SO	18	180	UJ	N/A	Yes
L12SS-300V-0001-SO	BROMOFORM	23	230	ug/Kg	UJ	L12SS-301V-0001-SO	18	180	UJ	N/A	Yes
L12SS-300V-0001-SO	BROMOMETHANE	46	230	ug/Kg	UJ	L12SS-301V-0001-SO	35	180	UJ	N/A	Yes
L12SS-300V-0001-SO	CARBON DISULFIDE	41	230	ug/Kg	J	L12SS-301V-0001-SO	34	180	J	N/A	Yes
L12SS-300V-0001-SO	CARBON TETRACHLORIDE	9.1	230	ug/Kg	UJ	L12SS-301V-0001-SO	7	180	UJ	N/A	Yes
L12SS-300V-0001-SO	CHLOROBENZENE	9.1	230	ug/Kg	UJ	L12SS-301V-0001-SO	7	180	UJ	N/A	Yes
L12SS-300V-0001-SO	CHLOROETHANE	91	230	ug/Kg	UJ	L12SS-301V-0001-SO	70	180	UJ	N/A	Yes
L12SS-300V-0001-SO	CHLOROFORM	23	230	ug/Kg	UJ	L12SS-301V-0001-SO	18	180	UJ	N/A	Yes
L12SS-300V-0001-SO	CHLOROMETHANE	23	230	ug/Kg	UJ	L12SS-301V-0001-SO	18	180	UJ	N/A	Yes
L12SS-300V-0001-SO	CIS-1,2-DICHLOROETHENE	9.1	230	ug/Kg	UJ	L12SS-301V-0001-SO	7	180	UJ	N/A	Yes
L12SS-300V-0001-SO	CIS-1,3-DICHLOROPROPENE	9.1	230	ug/Kg	UJ	L12SS-301V-0001-SO	7	180	UJ	N/A	Yes
L12SS-300V-0001-SO	DIBROMOCHLOROMETHANE	23	230	ug/Kg	UJ	L12SS-301V-0001-SO	18	180	UJ	N/A	Yes
L12SS-300V-0001-SO	ETHYL BENZENE	9.1	230	ug/Kg	UJ	L12SS-301V-0001-SO	12	180	J	N/A	Yes
L12SS-300V-0001-SO	METHYLENE CHLORIDE	91	230	ug/Kg	UJ	L12SS-301V-0001-SO	73	180	J	N/A	Yes
L12SS-300V-0001-SO	STYRENE	9.1	230	ug/Kg	UJ	L12SS-301V-0001-SO	7	180	UJ	N/A	Yes
L12SS-300V-0001-SO	TETRACHLOROETHENE	23	230	ug/Kg	UJ	L12SS-301V-0001-SO	18	180	UJ	N/A	Yes
L12SS-300V-0001-SO	TOLUENE	16	230	ug/Kg	J	L12SS-301V-0001-SO	50	180	J	N/A	Yes
L12SS-300V-0001-SO	TOTAL XYLENES	24	460	ug/Kg	J	L12SS-301V-0001-SO	64	350	J	N/A	Yes
L12SS-300V-0001-SO	TRANS-1,2-DICHLOROETHENE	23	230	ug/Kg	UJ	L12SS-301V-0001-SO	18	180	UJ	N/A	Yes
L12SS-300V-0001-SO	TRANS-1,3-DICHLOROPROPENE	23	230	ug/Kg	UJ	L12SS-301V-0001-SO	18	180	UJ	N/A	Yes
L12SS-300V-0001-SO	TRICHLOROETHENE	23	230	ug/Kg	UJ	L12SS-301V-0001-SO	18	180	UJ	N/A	Yes
L12SS-300V-0001-SO	VINYL CHLORIDE	23	230	ug/Kg	UJ	L12SS-301V-0001-SO	18	180	UJ	N/A	Yes
LL2SS-516M-0001-SO	ALUMINUM	8100	9.9	mg/Kg	J-	LL2SS-517M-0001-SO	11000	93	J-	30	N/A
LL2SS-516M-0001-SO	ANTIMONY	0.15	0.19	mg/Kg	J	LL2SS-517M-0001-SO	0.14	0.19	J-	N/A	Yes
LL2SS-516M-0001-SO	ARSENIC	10	0.48	mg/Kg	J-	LL2SS-517M-0001-SO	9.2	0.46	J-	8	N/A
LL2SS-516M-0001-SO	BARIUM	79	0.48	mg/Kg		LL2SS-517M-0001-SO	88	0.46	J-	11	N/A
LL2SS-516M-0001-SO	BERYLLIUM	0.86	0.48	mg/Kg		LL2SS-517M-0001-SO	1	0.93		N/A	Yes

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
LL2SS-516M-0001-SO	CADMIUM	0.27	0.95	mg/Kg		LL2SS-517M-0001-SO	0.17	1.9	J-	N/A	Yes
LL2SS-516M-0001-SO	CALCIUM	17000	200	mg/Kg	J-	LL2SS-517M-0001-SO	23000	1900	J-	30	N/A
LL2SS-516M-0001-SO	CHROMIUM	27	0.48	mg/Kg	J-	LL2SS-517M-0001-SO	32	0.46	J-	17	N/A
LL2SS-516M-0001-SO	COBALT	8.3	0.48	mg/Kg	J-	LL2SS-517M-0001-SO	9.2	0.93	J-	10	N/A
LL2SS-516M-0001-SO	COPPER	19	0.38	mg/Kg	J-	LL2SS-517M-0001-SO	18	0.37	J-	5	N/A
LL2SS-516M-0001-SO	IRON	20000	49	mg/Kg	J	LL2SS-517M-0001-SO	20000	46		0	N/A
LL2SS-516M-0001-SO	LEAD	35	0.29	mg/Kg	J-	LL2SS-517M-0001-SO	33	0.28	J-	6	N/A
LL2SS-516M-0001-SO	MAGNESIUM	4100	99	mg/Kg		LL2SS-517M-0001-SO	4500	93		9	N/A
LL2SS-516M-0001-SO	MANGANESE	670	2.4	mg/Kg	J-	LL2SS-517M-0001-SO	870	4.6	J-	26	N/A
LL2SS-516M-0001-SO	NICKEL	26	0.48	mg/Kg	J-	LL2SS-517M-0001-SO	29	0.46	J-	11	N/A
LL2SS-516M-0001-SO	POTASSIUM	1100	99	mg/Kg		LL2SS-517M-0001-SO	1200	93		9	N/A
LL2SS-516M-0001-SO	SELENIUM	1.2	0.48	mg/Kg	J-	LL2SS-517M-0001-SO	1.1	0.46	J-	N/A	Yes
LL2SS-516M-0001-SO	SILVER	0.24	0.48	mg/Kg	R	LL2SS-517M-0001-SO	0.46	0.93	U	N/A	N/A
LL2SS-516M-0001-SO	SODIUM	160	99	mg/Kg		LL2SS-517M-0001-SO	170	93		N/A	Yes
LL2SS-516M-0001-SO	THALLIUM	0.17	0.19	mg/Kg	J	LL2SS-517M-0001-SO	0.15	0.19	J	N/A	Yes
LL2SS-516M-0001-SO	VANADIUM	15	0.48	mg/Kg		LL2SS-517M-0001-SO	14	0.46		7	N/A
LL2SS-516M-0001-SO	ZINC	88	19	mg/Kg	J-	LL2SS-517M-0001-SO	62	37	J-	N/A	Yes
LL2SS-516M-0001-SO	AROCLOR 1016	130	330	ug/Kg	UJ	LL2SS-517M-0001-SO	25	66	U	N/A	Yes
LL2SS-516M-0001-SO	AROCLOR 1221	130	250	ug/Kg	UJ	LL2SS-517M-0001-SO	25	51	U	N/A	Yes
LL2SS-516M-0001-SO	AROCLOR 1232	130	230	ug/Kg	UJ	LL2SS-517M-0001-SO	25	46	U	N/A	Yes
LL2SS-516M-0001-SO	AROCLOR 1242	130	200	ug/Kg	UJ	LL2SS-517M-0001-SO	25	41	U	N/A	Yes
LL2SS-516M-0001-SO	AROCLOR 1248	130	280	ug/Kg	UJ	LL2SS-517M-0001-SO	25	56	U	N/A	Yes
LL2SS-516M-0001-SO	AROCLOR 1254	670	280	ug/Kg	J	LL2SS-517M-0001-SO	250	56		N/A	No
LL2SS-516M-0001-SO	AROCLOR 1260	130	280	ug/Kg	UJ	LL2SS-517M-0001-SO	25	56	U	N/A	Yes
LL2SS-516M-0001-SO	1,3,5-TRINITROBENZENE	0.25	0.25	mg/kg	U	LL2SS-517M-0001-SO	0.25	0.25	U	N/A	Yes
LL2SS-516M-0001-SO	1,3-DINITROBENZENE	0.25	0.25	mg/kg	U	LL2SS-517M-0001-SO	0.25	0.25	U	N/A	Yes
LL2SS-516M-0001-SO	2,4,6-TRINITROTOLUENE	0.25	0.25	mg/kg	U	LL2SS-517M-0001-SO	0.048	0.25	J	N/A	Yes
LL2SS-516M-0001-SO	2,4-DINITROTOLUENE	0.25	0.25	mg/kg	U	LL2SS-517M-0001-SO	0.25	0.25	U	N/A	Yes
LL2SS-516M-0001-SO	2,6-DINITROTOLUENE	0.25	0.25	mg/kg	U	LL2SS-517M-0001-SO	0.25	0.25	U	N/A	Yes
LL2SS-516M-0001-SO	2-AMINO-4,6-DINITROTOLUENE	0.25	0.25	mg/kg	U	LL2SS-517M-0001-SO	0.25	0.25	U	N/A	Yes
LL2SS-516M-0001-SO	2-NITROTOLUENE	0.25	0.25	mg/kg	U	LL2SS-517M-0001-SO	0.25	0.25	U	N/A	Yes
LL2SS-516M-0001-SO	3-NITROTOLUENE	0.25	0.25	mg/kg	U	LL2SS-517M-0001-SO	0.25	0.25	U	N/A	Yes
LL2SS-516M-0001-SO	4-AMINO-2,6-DINITROTOLUENE	0.25	0.25	mg/kg	U	LL2SS-517M-0001-SO	0.25	0.25	U	N/A	Yes
LL2SS-516M-0001-SO	4-NITROTOLUENE	0.25	0.25	mg/kg	U	LL2SS-517M-0001-SO	0.25	0.25	U	N/A	Yes
LL2SS-516M-0001-SO	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	0.25	0.25	mg/kg	U	LL2SS-517M-0001-SO	0.25	0.25	U	N/A	Yes
LL2SS-516M-0001-SO	METHYL-2,4,6-TRINITROPHENYLNITRAMINE	0.25	0.25	mg/kg	U	LL2SS-517M-0001-SO	0.25	0.25	U	N/A	Yes
LL2SS-516M-0001-SO	NITROBENZENE	0.25	0.25	mg/kg	U	LL2SS-517M-0001-SO	0.25	0.25	U	N/A	Yes
LL2SS-516M-0001-SO	NITROGLYCERINE	0.5	0.5	mg/kg	U	LL2SS-517M-0001-SO	0.5	0.5	U	N/A	Yes

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
LL2SS-516M-0001-SO	OCTAHYDRO-TETRANITRO-1,3,5,7-TETRAZOCINE	0.25	0.25	mg/kg	U	LL2SS-517M-0001-SO	0.25	0.25	U	N/A	Yes
LL2SS-516M-0001-SO	PETN	0.5	0.5	mg/kg	U	LL2SS-517M-0001-SO	0.5	0.5	U	N/A	Yes
LL2SS-516M-0001-SO	HEXAVALENT CHROMIUM	0.45	0.82	mg/Kg	J-	LL2SS-517M-0001-SO	0.82	0.82	U	N/A	Yes
LL2SS-516M-0001-SO	MERCURY	0.023	0.1	mg/Kg	J	LL2SS-517M-0001-SO	0.022	0.1	J	N/A	Yes
LL2SS-516M-0001-SO	4,4'-DDD	14	41	ug/Kg	UJ	LL2SS-517M-0001-SO	34	100	U	N/A	Yes
LL2SS-516M-0001-SO	4,4'-DDE	19	35	ug/Kg	J	LL2SS-517M-0001-SO	3.3	8.7	J	N/A	Yes
LL2SS-516M-0001-SO	4,4'-DDT	14	41	ug/Kg	UJ	LL2SS-517M-0001-SO	34	100	U	N/A	Yes
LL2SS-516M-0001-SO	ALDRIN	27	81	ug/Kg	UJ	LL2SS-517M-0001-SO	68	200	U	N/A	Yes
LL2SS-516M-0001-SO	ALPHA-BHC	27	51	ug/Kg	UJ	LL2SS-517M-0001-SO	68	130	U	N/A	Yes
LL2SS-516M-0001-SO	ALPHA-CHLORDANE	27	61	ug/Kg	UJ	LL2SS-517M-0001-SO	68	150	U	N/A	Yes
LL2SS-516M-0001-SO	BETA-BHC	27	71	ug/Kg	UJ	LL2SS-517M-0001-SO	68	180	U	N/A	Yes
LL2SS-516M-0001-SO	DELTA-BHC	27	81	ug/Kg	UJ	LL2SS-517M-0001-SO	68	200	U	N/A	Yes
LL2SS-516M-0001-SO	DIELDRIN	14	35	ug/Kg	UJ	LL2SS-517M-0001-SO	34	87	U	N/A	Yes
LL2SS-516M-0001-SO	ENDOSULFAN I	14	35	ug/Kg	UJ	LL2SS-517M-0001-SO	34	87	U	N/A	Yes
LL2SS-516M-0001-SO	ENDOSULFAN II	27	51	ug/Kg	UJ	LL2SS-517M-0001-SO	68	130	U	N/A	Yes
LL2SS-516M-0001-SO	ENDOSULFAN SULFATE	27	61	ug/Kg	UJ	LL2SS-517M-0001-SO	68	150	U	N/A	Yes
LL2SS-516M-0001-SO	ENDRIN	14	35	ug/Kg	UJ	LL2SS-517M-0001-SO	34	87	U	N/A	Yes
LL2SS-516M-0001-SO	ENDRIN ALDEHYDE	27	61	ug/Kg	UJ	LL2SS-517M-0001-SO	68	150	U	N/A	Yes
LL2SS-516M-0001-SO	ENDRIN KETONE	14	41	ug/Kg	UJ	LL2SS-517M-0001-SO	25	10	J-	N/A	Yes
LL2SS-516M-0001-SO	GAMMA-BHC	27	51	ug/Kg	UJ	LL2SS-517M-0001-SO	68	130	U	N/A	Yes
LL2SS-516M-0001-SO	GAMMA-CHLORDANE	9.9	35	ug/Kg	NJ	LL2SS-517M-0001-SO	34	87	U	N/A	Yes
LL2SS-516M-0001-SO	HEPTACHLOR	27	71	ug/Kg	UJ	LL2SS-517M-0001-SO	68	180	U	N/A	Yes
LL2SS-516M-0001-SO	HEPTACHLOR EPOXIDE	27	51	ug/Kg	UJ	LL2SS-517M-0001-SO	68	130	U	N/A	Yes
LL2SS-516M-0001-SO	METHOXYCHLOR	67	100	ug/Kg	UJ	LL2SS-517M-0001-SO	66	26	J-	N/A	Yes
LL2SS-516M-0001-SO	TOXAPHENE	410	1400	ug/Kg	UJ	LL2SS-517M-0001-SO	1000	3400	U	N/A	Yes
LL2SS-516M-0001-SO	1,2,4-TRICHLOROBENZENE	110	200	ug/Kg	UJ	LL2SS-517M-0001-SO	110	200	UJ	N/A	Yes
LL2SS-516M-0001-SO	1,2-DICHLOROBENZENE	110	200	ug/Kg	UJ	LL2SS-517M-0001-SO	110	200	UJ	N/A	Yes
LL2SS-516M-0001-SO	1,3-DICHLOROBENZENE	110	200	ug/Kg	UJ	LL2SS-517M-0001-SO	110	200	UJ	N/A	Yes
LL2SS-516M-0001-SO	1,4-DICHLOROBENZENE	110	200	ug/Kg	UJ	LL2SS-517M-0001-SO	110	200	U	N/A	Yes
LL2SS-516M-0001-SO	2,4,5-TRICHLOROPHENOL	110	610	ug/Kg	UJ	LL2SS-517M-0001-SO	110	610	UJ	N/A	Yes
LL2SS-516M-0001-SO	2,4,6-TRICHLOROPHENOL	330	610	ug/Kg	UJ	LL2SS-517M-0001-SO	330	610	UJ	N/A	Yes
LL2SS-516M-0001-SO	2,4-DICHLOROPHENOL	110	610	ug/Kg	UJ	LL2SS-517M-0001-SO	110	610	U	N/A	Yes
LL2SS-516M-0001-SO	2,4-DIMETHYLPHENOL	330	610	ug/Kg	UJ	LL2SS-517M-0001-SO	330	610	U	N/A	Yes
LL2SS-516M-0001-SO	2,4-DINITROPHENOL	330	1300	ug/Kg	R	LL2SS-517M-0001-SO	330	1300	U	N/A	N/A
LL2SS-516M-0001-SO	2,4-DINITROTOLUENE	110	810	ug/Kg	R	LL2SS-517M-0001-SO	110	820	U	N/A	N/A
LL2SS-516M-0001-SO	2,6-DINITROTOLUENE	110	810	ug/Kg	R	LL2SS-517M-0001-SO	110	820	U	N/A	N/A
LL2SS-516M-0001-SO	2-CHLORONAPHTHALENE	13	200	ug/Kg	UJ	LL2SS-517M-0001-SO	13	200	U	N/A	Yes
LL2SS-516M-0001-SO	2-CHLOROPHENOL	110	200	ug/Kg	UJ	LL2SS-517M-0001-SO	110	200	U	N/A	Yes

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
LL2SS-516M-0001-SO	2-METHYLNAPHTHALENE	45	27	ug/Kg	J	LL2SS-517M-0001-SO	74	27		N/A	No
LL2SS-516M-0001-SO	2-METHYLPHENOL	330	810	ug/Kg	UJ	LL2SS-517M-0001-SO	330	820	U	N/A	Yes
LL2SS-516M-0001-SO	2-NITROANILINE	110	810	ug/Kg	UJ	LL2SS-517M-0001-SO	110	820	U	N/A	Yes
LL2SS-516M-0001-SO	2-NITROPHENOL	110	200	ug/Kg	UJ	LL2SS-517M-0001-SO	110	200	U	N/A	Yes
LL2SS-516M-0001-SO	3,3'-DICHLOROBENZIDINE	330	410	ug/Kg	UJ	LL2SS-517M-0001-SO	330	410	U	N/A	Yes
LL2SS-516M-0001-SO	3-METHYLPHENOL & 4-METHYLPHENOL	330	1600	ug/Kg	UJ	LL2SS-517M-0001-SO	330	1600	U	N/A	Yes
LL2SS-516M-0001-SO	3-NITROANILINE	330	810	ug/Kg	UJ	LL2SS-517M-0001-SO	330	820	U	N/A	Yes
LL2SS-516M-0001-SO	4,6-DINITRO-2-METHYLPHENOL	330	610	ug/Kg	R	LL2SS-517M-0001-SO	330	610	U	N/A	N/A
LL2SS-516M-0001-SO	4-BROMOPHENYL-PHENYLETHER	110	200	ug/Kg	UJ	LL2SS-517M-0001-SO	110	200	U	N/A	Yes
LL2SS-516M-0001-SO	4-CHLORO-3-METHYLPHENOL	110	610	ug/Kg	UJ	LL2SS-517M-0001-SO	110	610	U	N/A	Yes
LL2SS-516M-0001-SO	4-CHLOROANILINE	110	610	ug/Kg	UJ	LL2SS-517M-0001-SO	110	610	U	N/A	Yes
LL2SS-516M-0001-SO	4-CHLOROPHENYL-PHENYLETHER	110	200	ug/Kg	UJ	LL2SS-517M-0001-SO	110	200	U	N/A	Yes
LL2SS-516M-0001-SO	4-NITROANILINE	110	810	ug/Kg	UJ	LL2SS-517M-0001-SO	110	820	U	N/A	Yes
LL2SS-516M-0001-SO	4-NITROPHENOL	330	1300	ug/Kg	UJ	LL2SS-517M-0001-SO	330	1300	U	N/A	Yes
LL2SS-516M-0001-SO	ACENAPHTHENE	110	27	ug/Kg	J	LL2SS-517M-0001-SO	150	27		N/A	No
LL2SS-516M-0001-SO	ACENAPHTHYLENE	340	27	ug/Kg		LL2SS-517M-0001-SO	320	27		6	N/A
LL2SS-516M-0001-SO	ANTHRACENE	420	27	ug/Kg		LL2SS-517M-0001-SO	570	27		30	N/A
LL2SS-516M-0001-SO	BENZO(A)ANTHRACENE	1500	27	ug/Kg		LL2SS-517M-0001-SO	1600	27		6	N/A
LL2SS-516M-0001-SO	BENZO(A)PYRENE	1600	27	ug/Kg	J	LL2SS-517M-0001-SO	1700	27		6	N/A
LL2SS-516M-0001-SO	BENZO(B)FLUORANTHENE	1900	27	ug/Kg		LL2SS-517M-0001-SO	2000	27		5	N/A
LL2SS-516M-0001-SO	BENZO(G,H,I)PERYLENE	870	27	ug/Kg		LL2SS-517M-0001-SO	1000	27		14	N/A
LL2SS-516M-0001-SO	BENZO(K)FLUORANTHENE	980	27	ug/Kg		LL2SS-517M-0001-SO	950	27		3	N/A
LL2SS-516M-0001-SO	BENZOIC ACID	1400	2700	ug/Kg	R	LL2SS-517M-0001-SO	1400	2700	U	N/A	N/A
LL2SS-516M-0001-SO	BENZYL ALCOHOL	110	1300	ug/Kg	UJ	LL2SS-517M-0001-SO	110	1300	U	N/A	Yes
LL2SS-516M-0001-SO	BIS(2-CHLOROETHOXY)METHANE	110	410	ug/Kg	UJ	LL2SS-517M-0001-SO	110	410	U	N/A	Yes
LL2SS-516M-0001-SO	BIS(2-CHLOROETHYL) ETHER	13	410	ug/Kg	UJ	LL2SS-517M-0001-SO	13	410	U	N/A	Yes
LL2SS-516M-0001-SO	BIS(2-CHLOROISOPROPYL) ETHER	110	410	ug/Kg	UJ	LL2SS-517M-0001-SO	110	410	U	N/A	Yes
LL2SS-516M-0001-SO	BIS(2-ETHYLHEXYL) PHTHALATE	110	200	ug/Kg	UJ	LL2SS-517M-0001-SO	380	200		N/A	No
LL2SS-516M-0001-SO	BUTYLBENZYL PHTHALATE	110	200	ug/Kg	UJ	LL2SS-517M-0001-SO	110	200	U	N/A	Yes
LL2SS-516M-0001-SO	CARBAZOLE	140	200	ug/Kg	J	LL2SS-517M-0001-SO	170	200	J	N/A	Yes
LL2SS-516M-0001-SO	CHRYSENE	1400	27	ug/Kg		LL2SS-517M-0001-SO	1500	27		7	N/A
LL2SS-516M-0001-SO	DIBENZO(A,H)ANTHRACENE	240	27	ug/Kg	J	LL2SS-517M-0001-SO	210	27		13	N/A
LL2SS-516M-0001-SO	DIBENZOFURAN	100	200	ug/Kg	J	LL2SS-517M-0001-SO	160	200	J	N/A	Yes
LL2SS-516M-0001-SO	DIETHYL PHTHALATE	110	200	ug/Kg	UJ	LL2SS-517M-0001-SO	110	200	U	N/A	Yes
LL2SS-516M-0001-SO	DIMETHYL PHTHALATE	110	200	ug/Kg	UJ	LL2SS-517M-0001-SO	110	200	U	N/A	Yes
LL2SS-516M-0001-SO	DI-N-BUTYL PHTHALATE	110	200	ug/Kg	UJ	LL2SS-517M-0001-SO	110	200	U	N/A	Yes
LL2SS-516M-0001-SO	DI-N-OCTYL PHTHALATE	110	200	ug/Kg	UJ	LL2SS-517M-0001-SO	110	200	U	N/A	Yes
LL2SS-516M-0001-SO	FLUORANTHENE	2900	27	ug/Kg		LL2SS-517M-0001-SO	3600	27		22	N/A

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
LL2SS-516M-0001-SO	FLUORENE	180	27	ug/Kg	J	LL2SS-517M-0001-SO	300	27		50	N/A
LL2SS-516M-0001-SO	HEXACHLOROBENZENE	13	27	ug/Kg	UJ	LL2SS-517M-0001-SO	13	27	U	N/A	Yes
LL2SS-516M-0001-SO	HEXACHLOROBUTADIENE	110	200	ug/Kg	UJ	LL2SS-517M-0001-SO	110	200	UJ	N/A	Yes
LL2SS-516M-0001-SO	HEXACHLOROCYCLOPENTADIENE	110	1300	ug/Kg	UJ	LL2SS-517M-0001-SO	110	1300	U	N/A	Yes
LL2SS-516M-0001-SO	HEXACHLOROETHANE	110	200	ug/Kg	UJ	LL2SS-517M-0001-SO	110	200	U	N/A	Yes
LL2SS-516M-0001-SO	INDENO(1,2,3-CD)PYRENE	890	27	ug/Kg		LL2SS-517M-0001-SO	1000	27		12	N/A
LL2SS-516M-0001-SO	ISOPHORONE	75	200	ug/Kg	J	LL2SS-517M-0001-SO	53	200	J	N/A	Yes
LL2SS-516M-0001-SO	NAPHTHALENE	58	27	ug/Kg	J	LL2SS-517M-0001-SO	78	27		N/A	Yes
LL2SS-516M-0001-SO	NITROBENZENE	13	410	ug/Kg	R	LL2SS-517M-0001-SO	13	410	U	N/A	N/A
LL2SS-516M-0001-SO	N-NITROSO-DI-N-PROPYLAMINE	110	200	ug/Kg	UJ	LL2SS-517M-0001-SO	110	200	U	N/A	Yes
LL2SS-516M-0001-SO	N-NITROSODIPHENYLAMINE	110	200	ug/Kg	UJ	LL2SS-517M-0001-SO	110	200	U	N/A	Yes
LL2SS-516M-0001-SO	PENTACHLOROPHENOL	330	610	ug/Kg	R	LL2SS-517M-0001-SO	330	610	U	N/A	N/A
LL2SS-516M-0001-SO	PHENANTHRENE	1400	27	ug/Kg		LL2SS-517M-0001-SO	2100	27		40	N/A
LL2SS-516M-0001-SO	PHENOL	110	200	ug/Kg	UJ	LL2SS-517M-0001-SO	110	200	U	N/A	Yes
LL2SS-516M-0001-SO	PYRENE	2400	27	ug/Kg		LL2SS-517M-0001-SO	2700	27		12	N/A
LL2SS-516M-0001-SO	NITROGUANIDINE	0.24	0.24	mg/kg	U	LL2SS-517M-0001-SO	0.25	0.25	U	N/A	Yes
LL2SS-516M-0001-SO	NITROCELLULOSE	0.85	5.1	mg/kg	J-	LL2SS-517M-0001-SO	0.94	5.1	J-	N/A	Yes
LL2SS-516V-0001-SO	1,1,1-TRICHLOROETHANE	9.2	230	ug/Kg	UJ	LL2SS-517V-0001-SO	8.3	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	1,1,2,2-TETRACHLOROETHANE	23	230	ug/Kg	UJ	LL2SS-517V-0001-SO	21	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	1,1,2-TRICHLOROETHANE	23	230	ug/Kg	UJ	LL2SS-517V-0001-SO	21	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	1,1-DICHLOROETHANE	23	230	ug/Kg	UJ	LL2SS-517V-0001-SO	21	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	1,1-DICHLOROETHENE	23	230	ug/Kg	UJ	LL2SS-517V-0001-SO	21	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	1,2-DIBROMOETHANE	23	230	ug/Kg	UJ	LL2SS-517V-0001-SO	21	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	1,2-DICHLOROETHANE	23	230	ug/Kg	UJ	LL2SS-517V-0001-SO	21	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	1,2-DICHLOROETHENE (TOTAL)	7.5	460	ug/Kg	UJ	LL2SS-517V-0001-SO	6.8	420	UJ	N/A	Yes
LL2SS-516V-0001-SO	1,2-DICHLOROPROPANE	9.2	230	ug/Kg	UJ	LL2SS-517V-0001-SO	8.3	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	2-BUTANONE	92	920	ug/Kg	UJ	LL2SS-517V-0001-SO	83	830	UJ	N/A	Yes
LL2SS-516V-0001-SO	2-HEXANONE	46	920	ug/Kg	UJ	LL2SS-517V-0001-SO	42	830	UJ	N/A	Yes
LL2SS-516V-0001-SO	4-METHYL-2-PENTANONE	92	920	ug/Kg	UJ	LL2SS-517V-0001-SO	83	830	UJ	N/A	Yes
LL2SS-516V-0001-SO	ACETONE	180	920	ug/Kg	UJ	LL2SS-517V-0001-SO	170	830	UJ	N/A	Yes
LL2SS-516V-0001-SO	BENZENE	23	230	ug/Kg	UJ	LL2SS-517V-0001-SO	21	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	BROMOCHLOROMETHANE	23	230	ug/Kg	UJ	LL2SS-517V-0001-SO	21	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	BROMODICHLOROMETHANE	23	230	ug/Kg	UJ	LL2SS-517V-0001-SO	21	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	BROMOFORM	23	230	ug/Kg	UJ	LL2SS-517V-0001-SO	21	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	BROMOMETHANE	46	230	ug/Kg	UJ	LL2SS-517V-0001-SO	42	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	CARBON DISULFIDE	23	230	ug/Kg	UJ	LL2SS-517V-0001-SO	21	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	CARBON TETRACHLORIDE	9.2	230	ug/Kg	UJ	LL2SS-517V-0001-SO	8.3	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	CHLOROBENZENE	9.2	230	ug/Kg	UJ	LL2SS-517V-0001-SO	8.3	210	UJ	N/A	Yes

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
LL2SS-516V-0001-SO	CHLOROETHANE	92	230	ug/Kg	UJ	LL2SS-517V-0001-SO	83	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	CHLOROFORM	23	230	ug/Kg	UJ	LL2SS-517V-0001-SO	21	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	CHLOROMETHANE	23	230	ug/Kg	UJ	LL2SS-517V-0001-SO	21	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	CIS-1,2-DICHLOROETHENE	9.2	230	ug/Kg	UJ	LL2SS-517V-0001-SO	8.3	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	CIS-1,3-DICHLOROPROPENE	9.2	230	ug/Kg	UJ	LL2SS-517V-0001-SO	8.3	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	DIBROMOCHLOROMETHANE	23	230	ug/Kg	UJ	LL2SS-517V-0001-SO	21	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	ETHYL BENZENE	9.2	230	ug/Kg	UJ	LL2SS-517V-0001-SO	8.3	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	METHYLENE CHLORIDE	200	230	ug/Kg	J-	LL2SS-517V-0001-SO	130	210	J	N/A	Yes
LL2SS-516V-0001-SO	STYRENE	9.2	230	ug/Kg	UJ	LL2SS-517V-0001-SO	8.3	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	TETRACHLOROETHENE	23	230	ug/Kg	UJ	LL2SS-517V-0001-SO	21	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	TOLUENE	23	230	ug/Kg	UJ	LL2SS-517V-0001-SO	21	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	TOTAL XYLENES	27	460	ug/Kg	UJ	LL2SS-517V-0001-SO	25	420	UJ	N/A	Yes
LL2SS-516V-0001-SO	TRANS-1,2-DICHLOROETHENE	23	230	ug/Kg	UJ	LL2SS-517V-0001-SO	21	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	TRANS-1,3-DICHLOROPROPENE	23	230	ug/Kg	UJ	LL2SS-517V-0001-SO	21	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	TRICHLOROETHENE	23	230	ug/Kg	UJ	LL2SS-517V-0001-SO	21	210	UJ	N/A	Yes
LL2SS-516V-0001-SO	VINYL CHLORIDE	23	230	ug/Kg	UJ	LL2SS-517V-0001-SO	21	210	UJ	N/A	Yes
LL3SD-416M-0001-SD	ALUMINUM	10000	86	mg/Kg	J-	LL3SD-417M-0001-SD	9400	99	J-	6	N/A
LL3SD-416M-0001-SD	ANTIMONY	1.4	0.17	mg/Kg	J-	LL3SD-417M-0001-SD	1.5	0.2	J-	7	N/A
LL3SD-416M-0001-SD	ARSENIC	14	0.43	mg/Kg	J-	LL3SD-417M-0001-SD	13	0.5	J-	7	N/A
LL3SD-416M-0001-SD	BARIUM	150	0.43	mg/Kg	J-	LL3SD-417M-0001-SD	130	0.5	J-	14	N/A
LL3SD-416M-0001-SD	BERYLLIUM	1.3	0.86	mg/Kg		LL3SD-417M-0001-SD	1.2	0.99		N/A	Yes
LL3SD-416M-0001-SD	CADMIUM	1	1.7	mg/Kg	J-	LL3SD-417M-0001-SD	1.1	2	J-	N/A	Yes
LL3SD-416M-0001-SD	CALCIUM	15000	1700	mg/Kg	J-	LL3SD-417M-0001-SD	9800	200	J-	42	N/A
LL3SD-416M-0001-SD	CHROMIUM	26	0.43	mg/Kg	J-	LL3SD-417M-0001-SD	31	0.5	J-	18	N/A
LL3SD-416M-0001-SD	COBALT	21	0.86	mg/Kg	J-	LL3SD-417M-0001-SD	19	0.99	J-	10	N/A
LL3SD-416M-0001-SD	COPPER	9.6	0.35	mg/Kg	J-	LL3SD-417M-0001-SD	10	0.4	J-	4	N/A
LL3SD-416M-0001-SD	IRON	24000	43	mg/Kg		LL3SD-417M-0001-SD	25000	50		4	N/A
LL3SD-416M-0001-SD	LEAD	23	0.26	mg/Kg	J-	LL3SD-417M-0001-SD	22	0.3	J-	4	N/A
LL3SD-416M-0001-SD	MAGNESIUM	3400	86	mg/Kg		LL3SD-417M-0001-SD	2400	99		34	N/A
LL3SD-416M-0001-SD	MANGANESE	3700	4.3	mg/Kg	J-	LL3SD-417M-0001-SD	3400	5	J-	8	N/A
LL3SD-416M-0001-SD	NICKEL	28	0.43	mg/Kg	J-	LL3SD-417M-0001-SD	30	0.5	J-	7	N/A
LL3SD-416M-0001-SD	POTASSIUM	730	86	mg/Kg		LL3SD-417M-0001-SD	670	99		9	N/A
LL3SD-416M-0001-SD	SELENIUM	1.1	0.43	mg/Kg	J-	LL3SD-417M-0001-SD	1.1	0.5	J-	N/A	Yes
LL3SD-416M-0001-SD	SILVER	0.43	0.86	mg/Kg	R	LL3SD-417M-0001-SD	0.5	0.99	U	N/A	N/A
LL3SD-416M-0001-SD	SODIUM	110	86	mg/Kg	U	LL3SD-417M-0001-SD	69	99	J	N/A	Yes
LL3SD-416M-0001-SD	THALLIUM	0.16	0.17	mg/Kg	J	LL3SD-417M-0001-SD	0.13	0.2	J	N/A	Yes
LL3SD-416M-0001-SD	VANADIUM	23	0.43	mg/Kg		LL3SD-417M-0001-SD	23	0.5		0	N/A
LL3SD-416M-0001-SD	ZINC	160	35	mg/Kg	J-	LL3SD-417M-0001-SD	170	40	J-	N/A	Yes

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
LL3SD-416M-0001-SD	AROCLOR 1016	25	66	ug/Kg	UJ	LL3SD-417M-0001-SD	25	66	U	N/A	Yes
LL3SD-416M-0001-SD	AROCLOR 1221	25	51	ug/Kg	UJ	LL3SD-417M-0001-SD	25	51	U	N/A	Yes
LL3SD-416M-0001-SD	AROCLOR 1232	25	46	ug/Kg	UJ	LL3SD-417M-0001-SD	25	46	U	N/A	Yes
LL3SD-416M-0001-SD	AROCLOR 1242	25	41	ug/Kg	UJ	LL3SD-417M-0001-SD	25	41	U	N/A	Yes
LL3SD-416M-0001-SD	AROCLOR 1248	25	56	ug/Kg	UJ	LL3SD-417M-0001-SD	25	56	U	N/A	Yes
LL3SD-416M-0001-SD	AROCLOR 1254	44	56	ug/Kg	J	LL3SD-417M-0001-SD	86	56		N/A	Yes
LL3SD-416M-0001-SD	AROCLOR 1260	25	56	ug/Kg	UJ	LL3SD-417M-0001-SD	25	56	U	N/A	Yes
LL3SD-416M-0001-SD	1,3,5-TRINITROBENZENE	0.031	0.25	mg/kg	NJ	LL3SD-417M-0001-SD	0.24	0.24	U	N/A	Yes
LL3SD-416M-0001-SD	1,3-DINITROBENZENE	0.25	0.25	mg/kg	U	LL3SD-417M-0001-SD	0.24	0.24	U	N/A	Yes
LL3SD-416M-0001-SD	2,4,6-TRINITROTOLUENE	0.32	0.25	mg/kg		LL3SD-417M-0001-SD	0.27	0.24		N/A	Yes
LL3SD-416M-0001-SD	2,4-DINITROTOLUENE	0.25	0.25	mg/kg	U	LL3SD-417M-0001-SD	0.24	0.24	U	N/A	Yes
LL3SD-416M-0001-SD	2,6-DINITROTOLUENE	0.25	0.25	mg/kg	U	LL3SD-417M-0001-SD	0.24	0.24	U	N/A	Yes
LL3SD-416M-0001-SD	2-AMINO-4,6-DINITROTOLUENE	0.25	0.25	mg/kg	U	LL3SD-417M-0001-SD	0.24	0.24	U	N/A	Yes
LL3SD-416M-0001-SD	2-NITROTOLUENE	0.25	0.25	mg/kg	U	LL3SD-417M-0001-SD	0.24	0.24	U	N/A	Yes
LL3SD-416M-0001-SD	3-NITROTOLUENE	0.25	0.25	mg/kg	U	LL3SD-417M-0001-SD	0.24	0.24	U	N/A	Yes
LL3SD-416M-0001-SD	4-AMINO-2,6-DINITROTOLUENE	0.25	0.25	mg/kg	U	LL3SD-417M-0001-SD	0.24	0.24	U	N/A	Yes
LL3SD-416M-0001-SD	4-NITROTOLUENE	0.25	0.25	mg/kg	U	LL3SD-417M-0001-SD	0.24	0.24	U	N/A	Yes
LL3SD-416M-0001-SD	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	0.25	0.25	mg/kg	UJ	LL3SD-417M-0001-SD	0.24	0.24	U	N/A	Yes
LL3SD-416M-0001-SD	METHYL-2,4,6-TRINITROPHENYLNITRAMINE	0.12	0.25	mg/kg	NJ	LL3SD-417M-0001-SD	0.24	0.24	U	N/A	Yes
LL3SD-416M-0001-SD	NITROBENZENE	0.11	0.25	mg/kg	NJ	LL3SD-417M-0001-SD	0.24	0.24	U	N/A	Yes
LL3SD-416M-0001-SD	NITROGLYCERINE	0.5	0.5	mg/kg	U	LL3SD-417M-0001-SD	0.48	0.48	U	N/A	Yes
LL3SD-416M-0001-SD	OCTAHYDRO-TETRANITRO-1,3,5,7-TETRAZOCINE	0.25	0.25	mg/kg	U	LL3SD-417M-0001-SD	0.24	0.24	U	N/A	Yes
LL3SD-416M-0001-SD	PETN	0.5	0.5	mg/kg	U	LL3SD-417M-0001-SD	0.48	0.48	U	N/A	Yes
LL3SD-416M-0001-SD	HEXAVALENT CHROMIUM	0.46	0.82	mg/Kg	J-	LL3SD-417M-0001-SD	0.45	0.82	J	N/A	Yes
LL3SD-416M-0001-SD	MERCURY	0.3	0.085	mg/Kg		LL3SD-417M-0001-SD	0.33	0.08		N/A	Yes
LL3SD-416M-0001-SD	4,4'-DDD	34	100	ug/Kg	UJ	LL3SD-417M-0001-SD	34	100	U	N/A	Yes
LL3SD-416M-0001-SD	4,4'-DDE	34	87	ug/Kg	UJ	LL3SD-417M-0001-SD	10	8.7	J-	N/A	Yes
LL3SD-416M-0001-SD	4,4'-DDT	34	100	ug/Kg	UJ	LL3SD-417M-0001-SD	34	100	U	N/A	Yes
LL3SD-416M-0001-SD	ALDRIN	68	200	ug/Kg	UJ	LL3SD-417M-0001-SD	68	200	U	N/A	Yes
LL3SD-416M-0001-SD	ALPHA-BHC	68	130	ug/Kg	UJ	LL3SD-417M-0001-SD	68	130	U	N/A	Yes
LL3SD-416M-0001-SD	ALPHA-CHLORDANE	68	150	ug/Kg	UJ	LL3SD-417M-0001-SD	68	150	U	N/A	Yes
LL3SD-416M-0001-SD	BETA-BHC	130	180	ug/Kg	J	LL3SD-417M-0001-SD	130	180	J	N/A	Yes
LL3SD-416M-0001-SD	DELTA-BHC	68	200	ug/Kg	UJ	LL3SD-417M-0001-SD	68	200	U	N/A	Yes
LL3SD-416M-0001-SD	DIELDRIN	34	87	ug/Kg	UJ	LL3SD-417M-0001-SD	34	87	U	N/A	Yes
LL3SD-416M-0001-SD	ENDOSULFAN I	34	87	ug/Kg	UJ	LL3SD-417M-0001-SD	34	87	U	N/A	Yes
LL3SD-416M-0001-SD	ENDOSULFAN II	68	130	ug/Kg	UJ	LL3SD-417M-0001-SD	68	130	U	N/A	Yes
LL3SD-416M-0001-SD	ENDOSULFAN SULFATE	68	150	ug/Kg	UJ	LL3SD-417M-0001-SD	68	150	U	N/A	Yes
LL3SD-416M-0001-SD	ENDRIN	34	87	ug/Kg	UJ	LL3SD-417M-0001-SD	34	87	U	N/A	Yes

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
LL3SD-416M-0001-SD	ENDRIN ALDEHYDE	68	150	ug/Kg	UJ	LL3SD-417M-0001-SD	5.2	15	J	N/A	Yes
LL3SD-416M-0001-SD	ENDRIN KETONE	34	100	ug/Kg	UJ	LL3SD-417M-0001-SD	25	10	J-	N/A	Yes
LL3SD-416M-0001-SD	GAMMA-BHC	68	130	ug/Kg	UJ	LL3SD-417M-0001-SD	68	130	U	N/A	Yes
LL3SD-416M-0001-SD	GAMMA-CHLORDANE	34	87	ug/Kg	UJ	LL3SD-417M-0001-SD	34	87	U	N/A	Yes
LL3SD-416M-0001-SD	HEPTACHLOR	68	180	ug/Kg	UJ	LL3SD-417M-0001-SD	68	180	U	N/A	Yes
LL3SD-416M-0001-SD	HEPTACHLOR EPOXIDE	68	130	ug/Kg	UJ	LL3SD-417M-0001-SD	68	130	U	N/A	Yes
LL3SD-416M-0001-SD	METHOXYCHLOR	170	250	ug/Kg	UJ	LL3SD-417M-0001-SD	210	26	J-	N/A	Yes
LL3SD-416M-0001-SD	TOXAPHENE	1000	3400	ug/Kg	UJ	LL3SD-417M-0001-SD	1000	3400	U	N/A	Yes
LL3SD-416M-0001-SD	1,2,4-TRICHLOROBENZENE	550	1000	ug/Kg	UJ	LL3SD-417M-0001-SD	180	340	UJ	N/A	Yes
LL3SD-416M-0001-SD	1,2-DICHLOROBENZENE	550	1000	ug/Kg	UJ	LL3SD-417M-0001-SD	180	340	UJ	N/A	Yes
LL3SD-416M-0001-SD	1,3-DICHLOROBENZENE	550	1000	ug/Kg	UJ	LL3SD-417M-0001-SD	180	340	UJ	N/A	Yes
LL3SD-416M-0001-SD	1,4-DICHLOROBENZENE	550	1000	ug/Kg	UJ	LL3SD-417M-0001-SD	180	340	U	N/A	Yes
LL3SD-416M-0001-SD	2,4,5-TRICHLOROPHENOL	550	3100	ug/Kg	UJ	LL3SD-417M-0001-SD	180	1000	UJ	N/A	Yes
LL3SD-416M-0001-SD	2,4,6-TRICHLOROPHENOL	1600	3100	ug/Kg	UJ	LL3SD-417M-0001-SD	540	1000	UJ	N/A	Yes
LL3SD-416M-0001-SD	2,4-DICHLOROPHENOL	550	3100	ug/Kg	UJ	LL3SD-417M-0001-SD	180	1000	U	N/A	Yes
LL3SD-416M-0001-SD	2,4-DIMETHYLPHENOL	1600	3100	ug/Kg	UJ	LL3SD-417M-0001-SD	540	1000	U	N/A	Yes
LL3SD-416M-0001-SD	2,4-DINITROPHENOL	1600	6700	ug/Kg	UJ	LL3SD-417M-0001-SD	540	2200	U	N/A	Yes
LL3SD-416M-0001-SD	2,4-DINITROTOLUENE	550	4100	ug/Kg	R	LL3SD-417M-0001-SD	180	1400	U	N/A	N/A
LL3SD-416M-0001-SD	2,6-DINITROTOLUENE	550	4100	ug/Kg	R	LL3SD-417M-0001-SD	180	1400	U	N/A	N/A
LL3SD-416M-0001-SD	2-CHLORONAPHTHALENE	67	1000	ug/Kg	UJ	LL3SD-417M-0001-SD	22	340	U	N/A	Yes
LL3SD-416M-0001-SD	2-CHLOROPHENOL	550	1000	ug/Kg	UJ	LL3SD-417M-0001-SD	180	340	U	N/A	Yes
LL3SD-416M-0001-SD	2-METHYLNAPHTHALENE	67	140	ug/Kg	UJ	LL3SD-417M-0001-SD	88	45		N/A	Yes
LL3SD-416M-0001-SD	2-METHYLPHENOL	1600	4100	ug/Kg	UJ	LL3SD-417M-0001-SD	540	1400	U	N/A	Yes
LL3SD-416M-0001-SD	2-NITROANILINE	550	4100	ug/Kg	UJ	LL3SD-417M-0001-SD	180	1400	U	N/A	Yes
LL3SD-416M-0001-SD	2-NITROPHENOL	550	1000	ug/Kg	UJ	LL3SD-417M-0001-SD	180	340	U	N/A	Yes
LL3SD-416M-0001-SD	3,3'-DICHLOROBENZIDINE	1600	2000	ug/Kg	UJ	LL3SD-417M-0001-SD	540	680	U	N/A	Yes
LL3SD-416M-0001-SD	3-METHYLPHENOL & 4-METHYLPHENOL	1600	8200	ug/Kg	UJ	LL3SD-417M-0001-SD	540	2700	U	N/A	Yes
LL3SD-416M-0001-SD	3-NITROANILINE	1600	4100	ug/Kg	UJ	LL3SD-417M-0001-SD	540	1400	U	N/A	Yes
LL3SD-416M-0001-SD	4,6-DINITRO-2-METHYLPHENOL	1600	3100	ug/Kg	UJ	LL3SD-417M-0001-SD	540	1000	U	N/A	Yes
LL3SD-416M-0001-SD	4-BROMOPHENYL-PHENYLETHER	550	1000	ug/Kg	UJ	LL3SD-417M-0001-SD	180	340	U	N/A	Yes
LL3SD-416M-0001-SD	4-CHLORO-3-METHYLPHENOL	550	3100	ug/Kg	UJ	LL3SD-417M-0001-SD	180	1000	U	N/A	Yes
LL3SD-416M-0001-SD	4-CHLOROANILINE	550	3100	ug/Kg	UJ	LL3SD-417M-0001-SD	180	1000	U	N/A	Yes
LL3SD-416M-0001-SD	4-CHLOROPHENYL-PHENYLETHER	550	1000	ug/Kg	UJ	LL3SD-417M-0001-SD	180	340	U	N/A	Yes
LL3SD-416M-0001-SD	4-NITROANILINE	550	4100	ug/Kg	UJ	LL3SD-417M-0001-SD	180	1400	U	N/A	Yes
LL3SD-416M-0001-SD	4-NITROPHENOL	1600	6700	ug/Kg	UJ	LL3SD-417M-0001-SD	540	2200	U	N/A	Yes
LL3SD-416M-0001-SD	ACENAPHTHENE	360	140	ug/Kg	J	LL3SD-417M-0001-SD	130	45		N/A	No
LL3SD-416M-0001-SD	ACENAPHTHYLENE	1600	140	ug/Kg		LL3SD-417M-0001-SD	550	45		98	N/A
LL3SD-416M-0001-SD	ANTHRACENE	3100	140	ug/Kg		LL3SD-417M-0001-SD	1000	45		102	N/A

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
LL3SD-416M-0001-SD	BENZO(A)ANTHRACENE	8600	140	ug/Kg		LL3SD-417M-0001-SD	2900	45		99	N/A
LL3SD-416M-0001-SD	BENZO(A)PYRENE	6800	140	ug/Kg		LL3SD-417M-0001-SD	2500	45		92	N/A
LL3SD-416M-0001-SD	BENZO(B)FLUORANTHENE	9100	140	ug/Kg		LL3SD-417M-0001-SD	3100	45		98	N/A
LL3SD-416M-0001-SD	BENZO(G,H,I)PERYLENE	4200	140	ug/Kg		LL3SD-417M-0001-SD	1500	45		95	N/A
LL3SD-416M-0001-SD	BENZO(K)FLUORANTHENE	5000	140	ug/Kg		LL3SD-417M-0001-SD	1900	45		90	N/A
LL3SD-416M-0001-SD	BENZOIC ACID	6800	13000	ug/Kg	UJ	LL3SD-417M-0001-SD	2300	4500	U	N/A	Yes
LL3SD-416M-0001-SD	BENZYL ALCOHOL	550	6700	ug/Kg	UJ	LL3SD-417M-0001-SD	180	2200	U	N/A	Yes
LL3SD-416M-0001-SD	BIS(2-CHLOROETHOXY)METHANE	550	2000	ug/Kg	UJ	LL3SD-417M-0001-SD	180	680	U	N/A	Yes
LL3SD-416M-0001-SD	BIS(2-CHLOROETHYL) ETHER	67	2000	ug/Kg	UJ	LL3SD-417M-0001-SD	22	680	U	N/A	Yes
LL3SD-416M-0001-SD	BIS(2-CHLOROISOPROPYL) ETHER	550	2000	ug/Kg	UJ	LL3SD-417M-0001-SD	180	680	U	N/A	Yes
LL3SD-416M-0001-SD	BIS(2-ETHYLHEXYL) PHTHALATE	550	1000	ug/Kg	UJ	LL3SD-417M-0001-SD	180	340	U	N/A	Yes
LL3SD-416M-0001-SD	BUTYLBENZYL PHTHALATE	550	1000	ug/Kg	UJ	LL3SD-417M-0001-SD	180	340	U	N/A	Yes
LL3SD-416M-0001-SD	CARBAZOLE	1100	1000	ug/Kg	J	LL3SD-417M-0001-SD	400	340		N/A	Yes
LL3SD-416M-0001-SD	CHRYSENE	8200	140	ug/Kg		LL3SD-417M-0001-SD	2500	45		107	N/A
LL3SD-416M-0001-SD	DIBENZO(A,H)ANTHRACENE	1200	140	ug/Kg	J	LL3SD-417M-0001-SD	590	45		68	N/A
LL3SD-416M-0001-SD	DIBENZOFURAN	550	1000	ug/Kg	J	LL3SD-417M-0001-SD	200	340	J	N/A	Yes
LL3SD-416M-0001-SD	DIETHYL PHTHALATE	550	1000	ug/Kg	UJ	LL3SD-417M-0001-SD	180	340	U	N/A	Yes
LL3SD-416M-0001-SD	DIMETHYL PHTHALATE	550	1000	ug/Kg	UJ	LL3SD-417M-0001-SD	180	340	U	N/A	Yes
LL3SD-416M-0001-SD	DI-N-BUTYL PHTHALATE	550	1000	ug/Kg	UJ	LL3SD-417M-0001-SD	180	340	U	N/A	Yes
LL3SD-416M-0001-SD	DI-N-OCTYL PHTHALATE	550	1000	ug/Kg	UJ	LL3SD-417M-0001-SD	180	340	U	N/A	Yes
LL3SD-416M-0001-SD	FLUORANTHENE	19000	140	ug/Kg		LL3SD-417M-0001-SD	5500	45		110	N/A
LL3SD-416M-0001-SD	FLUORENE	1000	140	ug/Kg		LL3SD-417M-0001-SD	320	45		103	N/A
LL3SD-416M-0001-SD	HEXACHLOROBENZENE	67	140	ug/Kg	UJ	LL3SD-417M-0001-SD	22	45	U	N/A	Yes
LL3SD-416M-0001-SD	HEXACHLOROBUTADIENE	550	1000	ug/Kg	UJ	LL3SD-417M-0001-SD	180	340	UJ	N/A	Yes
LL3SD-416M-0001-SD	HEXACHLOROCYCLOPENTADIENE	550	6700	ug/Kg	UJ	LL3SD-417M-0001-SD	180	2200	U	N/A	Yes
LL3SD-416M-0001-SD	HEXACHLOROETHANE	550	1000	ug/Kg	UJ	LL3SD-417M-0001-SD	180	340	U	N/A	Yes
LL3SD-416M-0001-SD	INDENO(1,2,3-CD)PYRENE	4100	140	ug/Kg		LL3SD-417M-0001-SD	1500	45		93	N/A
LL3SD-416M-0001-SD	ISOPHORONE	550	1000	ug/Kg	UJ	LL3SD-417M-0001-SD	180	340	U	N/A	Yes
LL3SD-416M-0001-SD	NAPHTHALENE	170	140	ug/Kg	J	LL3SD-417M-0001-SD	74	45		N/A	Yes
LL3SD-416M-0001-SD	NITROBENZENE	67	2000	ug/Kg	R	LL3SD-417M-0001-SD	22	680	U	N/A	N/A
LL3SD-416M-0001-SD	N-NITROSO-DI-N-PROPYLAMINE	550	1000	ug/Kg	UJ	LL3SD-417M-0001-SD	180	340	U	N/A	Yes
LL3SD-416M-0001-SD	N-NITROSODIPHENYLAMINE	550	1000	ug/Kg	UJ	LL3SD-417M-0001-SD	180	340	U	N/A	Yes
LL3SD-416M-0001-SD	PENTACHLOROPHENOL	1600	3100	ug/Kg	UJ	LL3SD-417M-0001-SD	540	1000	U	N/A	Yes
LL3SD-416M-0001-SD	PHENANTHRENE	9200	140	ug/Kg		LL3SD-417M-0001-SD	2800	45		107	N/A
LL3SD-416M-0001-SD	PHENOL	550	1000	ug/Kg	UJ	LL3SD-417M-0001-SD	180	340	U	N/A	Yes
LL3SD-416M-0001-SD	PYRENE	13000	140	ug/Kg		LL3SD-417M-0001-SD	4000	45		106	N/A
LL3SD-416M-0001-SD	NITROGUANIDINE	0.24	0.24	mg/kg	U	LL3SD-417M-0001-SD	0.24	0.24	U	N/A	Yes
LL3SD-416M-0001-SD	NITROCELLULOSE	1.4	5.1	mg/kg	J-	LL3SD-417M-0001-SD	1.4	5.2	J-	N/A	Yes

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
LL3SD-416V-0001-SD	1,1,1-TRICHLOROETHANE	9.3	230	ug/Kg	UJ	LL3SD-417V-0001-SD	8.3	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	1,1,2,2-TETRACHLOROETHANE	23	230	ug/Kg	UJ	LL3SD-417V-0001-SD	21	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	1,1,2-TRICHLOROETHANE	23	230	ug/Kg	UJ	LL3SD-417V-0001-SD	21	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	1,1-DICHLOROETHANE	23	230	ug/Kg	UJ	LL3SD-417V-0001-SD	21	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	1,1-DICHLOROETHENE	23	230	ug/Kg	UJ	LL3SD-417V-0001-SD	21	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	1,2-DIBROMOETHANE	23	230	ug/Kg	UJ	LL3SD-417V-0001-SD	21	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	1,2-DICHLOROETHANE	23	230	ug/Kg	UJ	LL3SD-417V-0001-SD	21	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	1,2-DICHLOROETHENE (TOTAL)	7.7	470	ug/Kg	UJ	LL3SD-417V-0001-SD	6.8	410	UJ	N/A	Yes
LL3SD-416V-0001-SD	1,2-DICHLOROPROPANE	9.3	230	ug/Kg	UJ	LL3SD-417V-0001-SD	8.3	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	2-BUTANONE	93	930	ug/Kg	UJ	LL3SD-417V-0001-SD	83	830	UJ	N/A	Yes
LL3SD-416V-0001-SD	2-HEXANONE	47	930	ug/Kg	UJ	LL3SD-417V-0001-SD	41	830	UJ	N/A	Yes
LL3SD-416V-0001-SD	4-METHYL-2-PENTANONE	93	930	ug/Kg	UJ	LL3SD-417V-0001-SD	83	830	UJ	N/A	Yes
LL3SD-416V-0001-SD	ACETONE	190	930	ug/Kg	UJ	LL3SD-417V-0001-SD	170	830	UJ	N/A	Yes
LL3SD-416V-0001-SD	BENZENE	23	230	ug/Kg	UJ	LL3SD-417V-0001-SD	21	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	BROMOCHLOROMETHANE	23	230	ug/Kg	UJ	LL3SD-417V-0001-SD	21	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	BROMODICHLOROMETHANE	23	230	ug/Kg	UJ	LL3SD-417V-0001-SD	21	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	BROMOFORM	23	230	ug/Kg	UJ	LL3SD-417V-0001-SD	21	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	BROMOMETHANE	47	230	ug/Kg	UJ	LL3SD-417V-0001-SD	41	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	CARBON DISULFIDE	42	230	ug/Kg	J-	LL3SD-417V-0001-SD	38	210	J	N/A	Yes
LL3SD-416V-0001-SD	CARBON TETRACHLORIDE	9.3	230	ug/Kg	UJ	LL3SD-417V-0001-SD	8.3	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	CHLOROBENZENE	9.3	230	ug/Kg	UJ	LL3SD-417V-0001-SD	8.3	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	CHLOROETHANE	93	230	ug/Kg	UJ	LL3SD-417V-0001-SD	83	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	CHLOROFORM	23	230	ug/Kg	UJ	LL3SD-417V-0001-SD	21	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	CHLOROMETHANE	23	230	ug/Kg	UJ	LL3SD-417V-0001-SD	21	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	CIS-1,2-DICHLOROETHENE	9.3	230	ug/Kg	UJ	LL3SD-417V-0001-SD	8.3	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	CIS-1,3-DICHLOROPROPENE	9.3	230	ug/Kg	UJ	LL3SD-417V-0001-SD	8.3	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	DIBROMOCHLOROMETHANE	23	230	ug/Kg	UJ	LL3SD-417V-0001-SD	21	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	ETHYL BENZENE	9.3	230	ug/Kg	UJ	LL3SD-417V-0001-SD	23	210	J	N/A	Yes
LL3SD-416V-0001-SD	METHYLENE CHLORIDE	150	230	ug/Kg	J-	LL3SD-417V-0001-SD	130	210	J	N/A	Yes
LL3SD-416V-0001-SD	STYRENE	9.3	230	ug/Kg	UJ	LL3SD-417V-0001-SD	8.3	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	TETRACHLOROETHENE	23	230	ug/Kg	UJ	LL3SD-417V-0001-SD	21	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	TOLUENE	23	230	ug/Kg	UJ	LL3SD-417V-0001-SD	51	210	J	N/A	Yes
LL3SD-416V-0001-SD	TOTAL XYLENES	28	470	ug/Kg	UJ	LL3SD-417V-0001-SD	220	410	J	N/A	Yes
LL3SD-416V-0001-SD	TRANS-1,2-DICHLOROETHENE	23	230	ug/Kg	UJ	LL3SD-417V-0001-SD	21	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	TRANS-1,3-DICHLOROPROPENE	23	230	ug/Kg	UJ	LL3SD-417V-0001-SD	21	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	TRICHLOROETHENE	23	230	ug/Kg	UJ	LL3SD-417V-0001-SD	21	210	UJ	N/A	Yes
LL3SD-416V-0001-SD	VINYL CHLORIDE	23	230	ug/Kg	UJ	LL3SD-417V-0001-SD	21	210	UJ	N/A	Yes
LL4SS416M0001/0002SO	ALUMINUM	5900	10	mg/Kg	J	LL4SS-417M-0001-SO	7000	10		17	N/A

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
LL4SS416M0001/0002SO	ANTIMONY	0.09	0.2	mg/Kg	J	LL4SS-417M-0001-SO	0.092	0.2	J	N/A	Yes
LL4SS416M0001/0002SO	ARSENIC	8	0.5	mg/Kg		LL4SS-417M-0001-SO	8.3	0.5		4	N/A
LL4SS416M0001/0002SO	BARIUM	67	0.5	mg/Kg	J	LL4SS-417M-0001-SO	70	0.5	J+	4	N/A
LL4SS416M0001/0002SO	BERYLLIUM	0.48	0.5	mg/Kg	J	LL4SS-417M-0001-SO	0.46	0.1		N/A	Yes
LL4SS416M0001/0002SO	CADMIUM	0.37	0.99	mg/Kg	J	LL4SS-417M-0001-SO	0.29	0.2		N/A	Yes
LL4SS416M0001/0002SO	CALCIUM	4500	200	mg/Kg	J	LL4SS-417M-0001-SO	5200	200		14	N/A
LL4SS416M0001/0002SO	CHROMIUM	19	0.5	mg/Kg		LL4SS-417M-0001-SO	22	0.5		15	N/A
LL4SS416M0001/0002SO	COBALT	6.3	0.5	mg/Kg		LL4SS-417M-0001-SO	6.6	0.1		5	N/A
LL4SS416M0001/0002SO	COPPER	14	0.4	mg/Kg		LL4SS-417M-0001-SO	14	0.4		0	N/A
LL4SS416M0001/0002SO	IRON	16000	51	mg/Kg	J	LL4SS-417M-0001-SO	17000	50		6	N/A
LL4SS416M0001/0002SO	LEAD	22	0.3	mg/Kg		LL4SS-417M-0001-SO	20	0.3		10	N/A
LL4SS416M0001/0002SO	MAGNESIUM	1900	100	mg/Kg		LL4SS-417M-0001-SO	2100	100		10	N/A
LL4SS416M0001/0002SO	MANGANESE	430	2.5	mg/Kg	J+	LL4SS-417M-0001-SO	480	0.5	J+	11	N/A
LL4SS416M0001/0002SO	NICKEL	24	0.5	mg/Kg		LL4SS-417M-0001-SO	47	0.5		65	N/A
LL4SS416M0001/0002SO	POTASSIUM	710	100	mg/Kg		LL4SS-417M-0001-SO	730	100		3	N/A
LL4SS416M0001/0002SO	SELENIUM	0.81	0.5	mg/Kg	J-	LL4SS-417M-0001-SO	0.84	0.5	J-	N/A	Yes
LL4SS416M0001/0002SO	SILVER	0.25	0.5	mg/Kg	U	LL4SS-417M-0001-SO	0.039	0.1	J	N/A	Yes
LL4SS416M0001/0002SO	SODIUM	38	100	mg/Kg	J	LL4SS-417M-0001-SO	51	100	J	N/A	Yes
LL4SS416M0001/0002SO	THALLIUM	0.12	0.2	mg/Kg	J	LL4SS-417M-0001-SO	0.16	0.2	J	N/A	Yes
LL4SS416M0001/0002SO	VANADIUM	12	0.5	mg/Kg		LL4SS-417M-0001-SO	12	0.5		0	N/A
LL4SS416M0001/0002SO	ZINC	110	20	mg/Kg	J+	LL4SS-417M-0001-SO	82	4	J+	29	N/A
LL4SS416M0001/0002SO	AROCLOR 1016	25	66	ug/Kg		LL4SS-417M-0001-SO	25	66	U	N/A	Yes
LL4SS416M0001/0002SO	AROCLOR 1221	25	51	ug/Kg		LL4SS-417M-0001-SO	25	51	U	N/A	Yes
LL4SS416M0001/0002SO	AROCLOR 1232	25	46	ug/Kg		LL4SS-417M-0001-SO	25	46	U	N/A	Yes
LL4SS416M0001/0002SO	AROCLOR 1242	25	41	ug/Kg		LL4SS-417M-0001-SO	25	41	U	N/A	Yes
LL4SS416M0001/0002SO	AROCLOR 1248	25	56	ug/Kg		LL4SS-417M-0001-SO	25	56	U	N/A	Yes
LL4SS416M0001/0002SO	AROCLOR 1254	25	56	ug/Kg		LL4SS-417M-0001-SO	25	56	U	N/A	Yes
LL4SS416M0001/0002SO	AROCLOR 1260	25	56	ug/Kg		LL4SS-417M-0001-SO	25	56	U	N/A	Yes
LL4SS416M0001/0002SO	1,3,5-TRINITROBENZENE	0.24	0.24	mg/kg	U	LL4SS-417M-0001-SO	0.24	0.24	U	N/A	Yes
LL4SS416M0001/0002SO	1,3-DINITROBENZENE	0.24	0.24	mg/kg	U	LL4SS-417M-0001-SO	0.24	0.24	U	N/A	Yes
LL4SS416M0001/0002SO	2,4,6-TRINITROTOLUENE	0.24	0.24	mg/kg	U	LL4SS-417M-0001-SO	0.24	0.24	U	N/A	Yes
LL4SS416M0001/0002SO	2,4-DINITROTOLUENE	0.24	0.24	mg/kg	U	LL4SS-417M-0001-SO	0.24	0.24	U	N/A	Yes
LL4SS416M0001/0002SO	2,6-DINITROTOLUENE	0.24	0.24	mg/kg	U	LL4SS-417M-0001-SO	0.24	0.24	U	N/A	Yes
LL4SS416M0001/0002SO	2-AMINO-4,6-DINITROTOLUENE	0.24	0.24	mg/kg	U	LL4SS-417M-0001-SO	0.24	0.24	U	N/A	Yes
LL4SS416M0001/0002SO	2-NITROTOLUENE	0.24	0.24	mg/kg	U	LL4SS-417M-0001-SO	0.24	0.24	U	N/A	Yes
LL4SS416M0001/0002SO	3-NITROTOLUENE	0.24	0.24	mg/kg	U	LL4SS-417M-0001-SO	0.24	0.24	U	N/A	Yes
LL4SS416M0001/0002SO	4-AMINO-2,6-DINITROTOLUENE	0.24	0.24	mg/kg	U	LL4SS-417M-0001-SO	0.24	0.24	U	N/A	Yes
LL4SS416M0001/0002SO	4-NITROTOLUENE	0.24	0.24	mg/kg	U	LL4SS-417M-0001-SO	0.24	0.24	U	N/A	Yes

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
LL4SS416M0001/0002SO	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	0.24	0.24	mg/kg	U	LL4SS-417M-0001-SO	0.24	0.24	U	N/A	Yes
LL4SS416M0001/0002SO	METHYL-2,4,6-TRINITROPHENYLNITRAMINE	0.24	0.24	mg/kg	U	LL4SS-417M-0001-SO	0.24	0.24	U	N/A	Yes
LL4SS416M0001/0002SO	NITROBENZENE	0.24	0.24	mg/kg	U	LL4SS-417M-0001-SO	0.24	0.24	U	N/A	Yes
LL4SS416M0001/0002SO	NITROGLYCERINE	0.49	0.49	mg/kg	U	LL4SS-417M-0001-SO	0.49	0.49	U	N/A	Yes
LL4SS416M0001/0002SO	OCTAHYDRO-TETRANITRO-1,3,5,7-TETRAZOCINE	0.24	0.24	mg/kg	U	LL4SS-417M-0001-SO	0.24	0.24	U	N/A	Yes
LL4SS416M0001/0002SO	PETN	0.49	0.49	mg/kg	U	LL4SS-417M-0001-SO	0.49	0.49	U	N/A	Yes
LL4SS416M0001/0002SO	HEXAVALENT CHROMIUM	1	0.82	mg/Kg		LL4SS-417M-0001-SO	1.2	0.82		N/A	Yes
LL4SS416M0001/0002SO	MERCURY	0.024	0.094	mg/Kg	J	LL4SS-417M-0001-SO	0.024	0.096	J	N/A	Yes
LL4SS416M0001/0002SO	4,4'-DDD	14	41	ug/Kg		LL4SS-417M-0001-SO	6.8	20	U	N/A	Yes
LL4SS416M0001/0002SO	4,4'-DDE	14	35	ug/Kg		LL4SS-417M-0001-SO	1.6	1.7	J	N/A	Yes
LL4SS416M0001/0002SO	4,4'-DDT	14	41	ug/Kg	R	LL4SS-417M-0001-SO	0.71	2	J	N/A	N/A
LL4SS416M0001/0002SO	ALDRIN	27	82	ug/Kg	R	LL4SS-417M-0001-SO	14	41	U	N/A	N/A
LL4SS416M0001/0002SO	ALPHA-BHC	27	51	ug/Kg	R	LL4SS-417M-0001-SO	14	26	U	N/A	N/A
LL4SS416M0001/0002SO	ALPHA-CHLORDANE	27	61	ug/Kg	R	LL4SS-417M-0001-SO	14	31	U	N/A	N/A
LL4SS416M0001/0002SO	BETA-BHC	27	71	ug/Kg	R	LL4SS-417M-0001-SO	4.6	3.6	J-	N/A	N/A
LL4SS416M0001/0002SO	DELTA-BHC	27	82	ug/Kg	R	LL4SS-417M-0001-SO	14	41	U	N/A	N/A
LL4SS416M0001/0002SO	DIELDRIN	14	35	ug/Kg	U	LL4SS-417M-0001-SO	6.8	17	U	N/A	Yes
LL4SS416M0001/0002SO	ENDOSULFAN I	14	35	ug/Kg	R	LL4SS-417M-0001-SO	6.8	17	U	N/A	N/A
LL4SS416M0001/0002SO	ENDOSULFAN II	27	51	ug/Kg	R	LL4SS-417M-0001-SO	14	26	U	N/A	N/A
LL4SS416M0001/0002SO	ENDOSULFAN SULFATE	27	61	ug/Kg	R	LL4SS-417M-0001-SO	14	31	U	N/A	N/A
LL4SS416M0001/0002SO	ENDRIN	14	35	ug/Kg	U	LL4SS-417M-0001-SO	6.8	17	U	N/A	Yes
LL4SS416M0001/0002SO	ENDRIN ALDEHYDE	27	61	ug/Kg	R	LL4SS-417M-0001-SO	3.1	3.1	J-	N/A	N/A
LL4SS416M0001/0002SO	ENDRIN KETONE	14	41	ug/Kg	R	LL4SS-417M-0001-SO	6.8	20	U	N/A	N/A
LL4SS416M0001/0002SO	GAMMA-BHC	27	51	ug/Kg	R	LL4SS-417M-0001-SO	14	26	U	N/A	N/A
LL4SS416M0001/0002SO	GAMMA-CHLORDANE	14	35	ug/Kg		LL4SS-417M-0001-SO	6.8	17	U	N/A	Yes
LL4SS416M0001/0002SO	HEPTACHLOR	27	71	ug/Kg	R	LL4SS-417M-0001-SO	14	36	U	N/A	N/A
LL4SS416M0001/0002SO	HEPTACHLOR EPOXIDE	27	51	ug/Kg	R	LL4SS-417M-0001-SO	14	26	U	N/A	N/A
LL4SS416M0001/0002SO	METHOXYCHLOR	67	100	ug/Kg	R	LL4SS-417M-0001-SO	6.3	5.1	J-	N/A	N/A
LL4SS416M0001/0002SO	TOXAPHENE	410	1400	ug/Kg	U	LL4SS-417M-0001-SO	200	680	U	N/A	Yes
LL4SS416M0001/0002SO	1,2,4-TRICHLOROBENZENE	28	51	ug/Kg	U	LL4SS-417M-0001-SO	28	51	U	N/A	Yes
LL4SS416M0001/0002SO	1,2-DICHLOROBENZENE	28	51	ug/Kg	UJ	LL4SS-417M-0001-SO	28	51	U	N/A	Yes
LL4SS416M0001/0002SO	1,3-DICHLOROBENZENE	28	51	ug/Kg	UJ	LL4SS-417M-0001-SO	28	51	U	N/A	Yes
LL4SS416M0001/0002SO	1,4-DICHLOROBENZENE	28	51	ug/Kg	U	LL4SS-417M-0001-SO	28	51	U	N/A	Yes
LL4SS416M0001/0002SO	2,4,5-TRICHLOROPHENOL	28	150	ug/Kg	U	LL4SS-417M-0001-SO	28	150	U	N/A	Yes
LL4SS416M0001/0002SO	2,4,6-TRICHLOROPHENOL	82	150	ug/Kg	U	LL4SS-417M-0001-SO	82	150	U	N/A	Yes
LL4SS416M0001/0002SO	2,4-DICHLOROPHENOL	28	150	ug/Kg	U	LL4SS-417M-0001-SO	28	150	U	N/A	Yes
LL4SS416M0001/0002SO	2,4-DIMETHYLPHENOL	82	150	ug/Kg	U	LL4SS-417M-0001-SO	82	150	U	N/A	Yes
LL4SS416M0001/0002SO	2,4-DINITROPHENOL	82	340	ug/Kg	UJ	LL4SS-417M-0001-SO	82	340	U	N/A	Yes

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
LL4SS416M0001/0002SO	2,4-DINITROTOLUENE	28	200	ug/Kg	U	LL4SS-417M-0001-SO	28	200	U	N/A	Yes
LL4SS416M0001/0002SO	2,6-DINITROTOLUENE	28	200	ug/Kg	U	LL4SS-417M-0001-SO	28	200	U	N/A	Yes
LL4SS416M0001/0002SO	2-CHLORONAPHTHALENE	3.4	51	ug/Kg	U	LL4SS-417M-0001-SO	3.4	51	U	N/A	Yes
LL4SS416M0001/0002SO	2-CHLOROPHENOL	28	51	ug/Kg	U	LL4SS-417M-0001-SO	28	51	U	N/A	Yes
LL4SS416M0001/0002SO	2-METHYLNAPHTHALENE	45	6.8	ug/Kg		LL4SS-417M-0001-SO	74	6.8		49	N/A
LL4SS416M0001/0002SO	2-METHYLPHENOL	82	200	ug/Kg	U	LL4SS-417M-0001-SO	82	200	U	N/A	Yes
LL4SS416M0001/0002SO	2-NITROANILINE	28	200	ug/Kg	U	LL4SS-417M-0001-SO	28	200	U	N/A	Yes
LL4SS416M0001/0002SO	2-NITROPHENOL	28	51	ug/Kg	U	LL4SS-417M-0001-SO	28	51	U	N/A	Yes
LL4SS416M0001/0002SO	3,3'-DICHLOROBENZIDINE	82	100	ug/Kg		LL4SS-417M-0001-SO	82	100	U	N/A	Yes
LL4SS416M0001/0002SO	3-METHYLPHENOL & 4-METHYLPHENOL	82	410	ug/Kg	U	LL4SS-417M-0001-SO	82	410	U	N/A	Yes
LL4SS416M0001/0002SO	3-NITROANILINE	82	200	ug/Kg	UJ	LL4SS-417M-0001-SO	82	200	U	N/A	Yes
LL4SS416M0001/0002SO	4,6-DINITRO-2-METHYLPHENOL	82	150	ug/Kg	UJ	LL4SS-417M-0001-SO	82	150	U	N/A	Yes
LL4SS416M0001/0002SO	4-BROMOPHENYL-PHENYLETHER	28	51	ug/Kg	U	LL4SS-417M-0001-SO	28	51	U	N/A	Yes
LL4SS416M0001/0002SO	4-CHLORO-3-METHYLPHENOL	28	150	ug/Kg	U	LL4SS-417M-0001-SO	28	150	U	N/A	Yes
LL4SS416M0001/0002SO	4-CHLOROANILINE	28	150	ug/Kg	UJ	LL4SS-417M-0001-SO	28	150	U	N/A	Yes
LL4SS416M0001/0002SO	4-CHLOROPHENYL-PHENYLETHER	28	51	ug/Kg	U	LL4SS-417M-0001-SO	28	51	U	N/A	Yes
LL4SS416M0001/0002SO	4-NITROANILINE	28	200	ug/Kg	R	LL4SS-417M-0001-SO	28	200	U	N/A	N/A
LL4SS416M0001/0002SO	4-NITROPHENOL	82	340	ug/Kg	U	LL4SS-417M-0001-SO	82	340	U	N/A	Yes
LL4SS416M0001/0002SO	ACENAPHTHENE	3.4	6.8	ug/Kg	U	LL4SS-417M-0001-SO	6.6	6.8	J	N/A	Yes
LL4SS416M0001/0002SO	ACENAPHTHYLENE	24	6.8	ug/Kg		LL4SS-417M-0001-SO	20	6.8		N/A	Yes
LL4SS416M0001/0002SO	ANTHRACENE	46	6.8	ug/Kg	J	LL4SS-417M-0001-SO	33	6.8		N/A	No
LL4SS416M0001/0002SO	BENZO(A)ANTHRACENE	110	6.8	ug/Kg		LL4SS-417M-0001-SO	87	6.8		23	N/A
LL4SS416M0001/0002SO	BENZO(A)PYRENE	130	6.8	ug/Kg	J	LL4SS-417M-0001-SO	110	6.8		17	N/A
LL4SS416M0001/0002SO	BENZO(B)FLUORANTHENE	270	6.8	ug/Kg		LL4SS-417M-0001-SO	250	6.8		8	N/A
LL4SS416M0001/0002SO	BENZO(G,H,I)PERYLENE	140	6.8	ug/Kg		LL4SS-417M-0001-SO	120	6.8		15	N/A
LL4SS416M0001/0002SO	BENZO(K)FLUORANTHENE	120	6.8	ug/Kg		LL4SS-417M-0001-SO	76	6.8		45	N/A
LL4SS416M0001/0002SO	BENZOIC ACID	340	670	ug/Kg	UJ	LL4SS-417M-0001-SO	340	670	U	N/A	Yes
LL4SS416M0001/0002SO	BENZYL ALCOHOL	28	340	ug/Kg	U	LL4SS-417M-0001-SO	28	340	U	N/A	Yes
LL4SS416M0001/0002SO	BIS(2-CHLOROETHOXY)METHANE	28	100	ug/Kg	U	LL4SS-417M-0001-SO	28	100	U	N/A	Yes
LL4SS416M0001/0002SO	BIS(2-CHLOROETHYL) ETHER	3.4	100	ug/Kg	U	LL4SS-417M-0001-SO	3.4	100	U	N/A	Yes
LL4SS416M0001/0002SO	BIS(2-CHLOROISOPROPYL) ETHER	28	100	ug/Kg	U	LL4SS-417M-0001-SO	28	100	U	N/A	Yes
LL4SS416M0001/0002SO	BIS(2-ETHYLHEXYL) PHTHALATE	130	51	ug/Kg		LL4SS-417M-0001-SO	150	51		N/A	Yes
LL4SS416M0001/0002SO	BUTYLBENZYL PHTHALATE	28	51	ug/Kg	U	LL4SS-417M-0001-SO	28	51	U	N/A	Yes
LL4SS416M0001/0002SO	CARBAZOLE	28	51	ug/Kg	U	LL4SS-417M-0001-SO	28	51	U	N/A	Yes
LL4SS416M0001/0002SO	CHRYSENE	210	6.8	ug/Kg	J	LL4SS-417M-0001-SO	140	6.8		40	N/A
LL4SS416M0001/0002SO	DIBENZO(A,H)ANTHRACENE	28	6.8	ug/Kg		LL4SS-417M-0001-SO	27	6.8		N/A	Yes
LL4SS416M0001/0002SO	DIBENZOFURAN	18	51	ug/Kg	J	LL4SS-417M-0001-SO	20	51	J	N/A	Yes
LL4SS416M0001/0002SO	DIETHYL PHTHALATE	28	51	ug/Kg	U	LL4SS-417M-0001-SO	28	51	U	N/A	Yes

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
LL4SS416M0001/0002SO	DIMETHYL PHTHALATE	28	51	ug/Kg	U	LL4SS-417M-0001-SO	28	51	U	N/A	Yes
LL4SS416M0001/0002SO	DI-N-BUTYL PHTHALATE	18	51	ug/Kg	J	LL4SS-417M-0001-SO	28	51	U	N/A	Yes
LL4SS416M0001/0002SO	DI-N-OCTYL PHTHALATE	28	51	ug/Kg	U	LL4SS-417M-0001-SO	28	51	U	N/A	Yes
LL4SS416M0001/0002SO	FLUORANTHENE	250	6.8	ug/Kg	J	LL4SS-417M-0001-SO	140	6.8		56	N/A
LL4SS416M0001/0002SO	FLUORENE	9.7	6.8	ug/Kg		LL4SS-417M-0001-SO	10	6.8		N/A	Yes
LL4SS416M0001/0002SO	HEXACHLOROBENZENE	3.4	6.8	ug/Kg	U	LL4SS-417M-0001-SO	3.4	6.8	U	N/A	Yes
LL4SS416M0001/0002SO	HEXACHLOROBUTADIENE	28	51	ug/Kg	U	LL4SS-417M-0001-SO	28	51	U	N/A	Yes
LL4SS416M0001/0002SO	HEXACHLOROCYCLOPENTADIENE	28	340	ug/Kg	U	LL4SS-417M-0001-SO	28	340	U	N/A	Yes
LL4SS416M0001/0002SO	HEXACHLOROETHANE	28	51	ug/Kg	U	LL4SS-417M-0001-SO	28	51	U	N/A	Yes
LL4SS416M0001/0002SO	INDENO(1,2,3-CD)PYRENE	100	6.8	ug/Kg		LL4SS-417M-0001-SO	87	6.8		14	N/A
LL4SS416M0001/0002SO	ISOPHORONE	28	51	ug/Kg	U	LL4SS-417M-0001-SO	28	51	U	N/A	Yes
LL4SS416M0001/0002SO	NAPHTHALENE	31	6.8	ug/Kg		LL4SS-417M-0001-SO	56	6.8		N/A	No
LL4SS416M0001/0002SO	NITROBENZENE	3.4	100	ug/Kg	U	LL4SS-417M-0001-SO	3.4	100	U	N/A	Yes
LL4SS416M0001/0002SO	N-NITROSO-DI-N-PROPYLAMINE	28	51	ug/Kg	U	LL4SS-417M-0001-SO	28	51	U	N/A	Yes
LL4SS416M0001/0002SO	N-NITROSODIPHENYLAMINE	28	51	ug/Kg	U	LL4SS-417M-0001-SO	28	51	U	N/A	Yes
LL4SS416M0001/0002SO	PENTACHLOROPHENOL	82	150	ug/Kg	UJ	LL4SS-417M-0001-SO	82	150	U	N/A	Yes
LL4SS416M0001/0002SO	PHENANTHRENE	110	6.8	ug/Kg		LL4SS-417M-0001-SO	68	6.8		47	N/A
LL4SS416M0001/0002SO	PHENOL	28	51	ug/Kg	U	LL4SS-417M-0001-SO	28	51	U	N/A	Yes
LL4SS416M0001/0002SO	PYRENE	230	6.8	ug/Kg		LL4SS-417M-0001-SO	140	6.8		49	N/A
LL4SS416M0001/0002SO	NITROGUANIDINE	0.25	0.25	mg/kg	U	LL4SS-417M-0001-SO	0.25	0.25	U	N/A	Yes
LL4SS416M0001/0002SO	NITROCELLULOSE	3.2	5.9	mg/kg	J	LL4SS-417M-0001-SO	5.1	5.1	U	N/A	Yes
LL4SS416V0001/0002SO	1,1,1-TRICHLOROETHANE	8.4	210	ug/Kg	UJ	LL4SS-417V-0001-SO	9.4	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	1,1,2,2-TETRACHLOROETHANE	21	210	ug/Kg	UJ	LL4SS-417V-0001-SO	23	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	1,1,2-TRICHLOROETHANE	21	210	ug/Kg	UJ	LL4SS-417V-0001-SO	23	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	1,1-DICHLOROETHANE	21	210	ug/Kg	UJ	LL4SS-417V-0001-SO	23	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	1,1-DICHLOROETHENE	21	210	ug/Kg	UJ	LL4SS-417V-0001-SO	23	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	1,2-DIBROMOETHANE	21	210	ug/Kg	UJ	LL4SS-417V-0001-SO	23	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	1,2-DICHLOROETHANE	21	210	ug/Kg	UJ	LL4SS-417V-0001-SO	23	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	1,2-DICHLOROETHENE (TOTAL)	6.9	420	ug/Kg	UJ	LL4SS-417V-0001-SO	7.7	470	UJ	N/A	Yes
LL4SS416V0001/0002SO	1,2-DICHLOROPROPANE	8.4	210	ug/Kg	UJ	LL4SS-417V-0001-SO	9.4	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	2-BUTANONE	84	840	ug/Kg	UJ	LL4SS-417V-0001-SO	94	940	UJ	N/A	Yes
LL4SS416V0001/0002SO	2-HEXANONE	42	840	ug/Kg	UJ	LL4SS-417V-0001-SO	47	940	UJ	N/A	Yes
LL4SS416V0001/0002SO	4-METHYL-2-PENTANONE	84	840	ug/Kg	UJ	LL4SS-417V-0001-SO	94	940	UJ	N/A	Yes
LL4SS416V0001/0002SO	ACETONE	170	840	ug/Kg	UJ	LL4SS-417V-0001-SO	190	940	UJ	N/A	Yes
LL4SS416V0001/0002SO	BENZENE	21	210	ug/Kg	UJ	LL4SS-417V-0001-SO	23	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	BROMOCHLOROMETHANE	21	210	ug/Kg	UJ	LL4SS-417V-0001-SO	23	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	BROMODICHLOROMETHANE	21	210	ug/Kg	UJ	LL4SS-417V-0001-SO	23	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	BROMOFORM	21	210	ug/Kg	UJ	LL4SS-417V-0001-SO	23	230	UJ	N/A	Yes

Sample	Analyte	Result	RL	Units	Qual	Duplicate	Result	RL	Qual	RPD	W/In RL?
LL4SS416V0001/0002SO	BROMOMETHANE	42	210	ug/Kg	UJ	LL4SS-417V-0001-SO	47	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	CARBON DISULFIDE	21	210	ug/Kg	UJ	LL4SS-417V-0001-SO	23	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	CARBON TETRACHLORIDE	8.4	210	ug/Kg	UJ	LL4SS-417V-0001-SO	9.4	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	CHLOROBENZENE	8.4	210	ug/Kg	UJ	LL4SS-417V-0001-SO	9.4	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	CHLOROETHANE	84	210	ug/Kg	UJ	LL4SS-417V-0001-SO	94	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	CHLOROFORM	21	210	ug/Kg	UJ	LL4SS-417V-0001-SO	23	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	CHLOROMETHANE	21	210	ug/Kg	UJ	LL4SS-417V-0001-SO	23	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	CIS-1,2-DICHLOROETHENE	8.4	210	ug/Kg	UJ	LL4SS-417V-0001-SO	9.4	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	CIS-1,3-DICHLOROPROPENE	8.4	210	ug/Kg	UJ	LL4SS-417V-0001-SO	9.4	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	DIBROMOCHLOROMETHANE	21	210	ug/Kg	UJ	LL4SS-417V-0001-SO	23	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	ETHYL BENZENE	8.4	210	ug/Kg	UJ	LL4SS-417V-0001-SO	9.4	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	METHYLENE CHLORIDE	84	210	ug/Kg	UJ	LL4SS-417V-0001-SO	94	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	STYRENE	8.4	210	ug/Kg	UJ	LL4SS-417V-0001-SO	9.4	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	TETRACHLOROETHENE	21	210	ug/Kg	UJ	LL4SS-417V-0001-SO	23	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	TOLUENE	21	210	ug/Kg	UJ	LL4SS-417V-0001-SO	23	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	TOTAL XYLENES	25	420	ug/Kg	UJ	LL4SS-417V-0001-SO	28	470	UJ	N/A	Yes
LL4SS416V0001/0002SO	TRANS-1,2-DICHLOROETHENE	21	210	ug/Kg	UJ	LL4SS-417V-0001-SO	23	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	TRANS-1,3-DICHLOROPROPENE	21	210	ug/Kg	UJ	LL4SS-417V-0001-SO	23	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	TRICHLOROETHENE	21	210	ug/Kg	UJ	LL4SS-417V-0001-SO	23	230	UJ	N/A	Yes
LL4SS416V0001/0002SO	VINYL CHLORIDE	21	210	ug/Kg	UJ	LL4SS-417V-0001-SO	23	230	UJ	N/A	Yes

APPENDIX D

Validator Checklists

NITROAROMATICS & NITRAMINE DATA ANALYSIS (EXPLOSIVE RESIDUES) CHECKLIST

IV: LL255-516M-0001-SO
LL35D-416M-0001-SO
-4 + -14
WestSac samples -3, -1
on 7/29

Project Name: RVAAP Conf Sampling LL1-4+12

Laboratory: TA-N. Canton subbed to TA-West Sac

Batch Number(s): _____

Sample Delivery Group: J1728

	Yes	No	
1. Holding Time: Were samples analyzed within holding time?	[N]	[ ]	
2. Initial Calibration:			
• Did the initial calibration consist of five standards?	[N]	[ ]	
• Did the RSD meet the criteria ≤ 20% for each individual Calibration Compound or r ≥ 0.99?	[N]	[ ]	
• Was manual integration "M" performed? If the answer is "Yes", check for supporting documents.	[N]	[ ]	
• Was the manual integration necessary?	[N]	[ ]	baseline
If the answer is "no", contact the laboratory inquiring about the reasons behind the manual integration, and **inform the District Chemist immediately if there were no valid reasons.**			
3. QCMDL:			
• Was MDL Check performed?	[ ]	[N]	
4. QCMRL:			
• Were QC/MRL run at the beginning and end of every daily sequence or every 12 hours??	[N]	[ ]	
• Was the percentage "D" for QC/MRL ≤ 30%?	[N]	[ ]	
5. Initial Calibration Verification (ICV):	[N]	[ ]	

	Yes	No
• Was the ICV made of a 2nd source?	[N]	[ ]
• Was the mid level (2nd source) recovery within 85 - 115%?		
6. Continuing Calibration Verification (CCV): {Daily calibration}		
• Was midpoint calibration standard conducted at the beginning of the day?	[ ]	[ ]
• Was midpoint calibration standard conducted every ten samples or every twelve hours?	[N]	[ ]
• Was midpoint calibration standard conducted after the last sample of the day?	[N]	[ ]
• Did the CCV meet the minimum requirements (D ≤ 15% with a maximum D ≤ 20% for a specific compound if the mean D ≤ 15%)?	[ ]	[N]
7. Sample Analysis:		
• Was the RRT of an identified component within the retention time window created as SW-846 requires?	[N]	[ ]
• Were all identified hits, above the initial calibration curve, diluted and reanalyzed? N/A	[ ]	[ ]
• Were all identified hits confirmed on a second column?	[N]	[ ]
• Was RPD of target analyte confirmation ≤ 40?	[ ]	[N]
• Was there a shoulder on the 2,4,6-TNT peak?	[ ]	[N]
If the answer is "Yes", then tetryl decomposition is suspected. Peak height rather than peak area should be used for calculating TNT concentration. If teryl was identified in aqueous samples, was pH adjusted to <3? If the answer is "No", then check for tetryl decomposition, and qualify hits with **"J"** accordingly.	[ ]	[ ]
8. Sample Quality Control:		
• Method Blanks: Were target analytes ≤ 1/2 MRL?	[N]	[ ]
• LCS: Were the percent recoveries for LCS within the limits?	[N]	[ ]

	Yes	No
• MS/MSD: Were the percent recoveries within limits?	[N]	[ ]
Were the RPDs within control limits?		
• System Monitoring Compounds (Surrogates): Were surrogate recoveries within QC limits?	[N]	[ ]

9. Comments (attach additional sheets if necessary):

MS/D - LL255-S16M-0001-SO -01L

Conf CCV 7/28 13:25 RDX = -15.2% } brackets #4
PETN = -20% but none to conf } UJ RDX

Validated/Reviewed by:

Signature: Patti Mertz Date: 5/13/12

Name: Patti Mertz

-1 2.01g/40ml
-3 2.03g/40ml

CCVS p4916

GIG140492
ICAL on 4763
RRF
98.8 246
175 - 135
93.7 tetryl
82.1 NB
p4814

ICP METALS ANALYSIS (6010) CHECKLIST

Project Name: RVAAP Conf Sampling LL1-4 + 12 4/2011

Laboratory: TA - N. Canton

Batch Number(s): (14) LL255-516M-001 IV
(4) LL350-416M-0001

Sample Delivery Group: J1728

	Yes	No
1. Holding Time:		
• Were samples analyzed within holding time (6-Months)? 28-days	[X]	[ ]
2. Initial Calibration:		
• Did the initial calibration consist of		
One calibration standard and a blank?	[X]	[ ]
three calibration standards and a blank?	[X]	[ ]
• Was R ≥ 0.995	[X]	[ ]
3. QCMDL:		
• Was MDL Check performed?	[ ]	[X]
QCMRL:		
• Were QC/MRL run at the beginning and end of every daily sequence or every 12 hours??	[X]	[ ]
• Was the QC/MRL between 70-130% R? Common Elements can be between the MRL and 2X MRL level (Fe, Al, Mg and Ca)	[ ]	[X]
4. Initial Calibration Verification (ICV):	[X]	[ ]
• Is the mid level (2nd source) recovery within 90 - 110%?		
5. Initial Calibration Blank (ICP):		

	Yes	No
• Were analytes in the blank ≤ 1/2 MRL?	[ ]	[N]

6. Interelement Check Standard:

• Was ICS-A (interferents only) conducted at the beginning of analytical sequence?	[N]	[ ]
• Was ICS-AB results within QC limits (80-120)?	[N]	[ ]

7. Continuing calibration Blank (CCB):

• Was CCB conducted every 10 samples?	[N]	[ ]
• Was CCB conducted at end of the analytical sequence?	[N]	[ ]
• Were analytes ≤ 1/2 MRL?	[ ]	[N]

8. Continuing Calibration Verification (CCV):

• Was CCV conducted every 10 samples?	[N]	[ ]
• Was CCV conducted at end of the analytical sequence?	[N]	[ ]
• Was the %R between 90-110?	[N]	[ ]

9. Sample Analysis:

• Were samples with levels higher than the calibration range (E), diluted and re-analyzed?	[ ]	[ ]

10. Sample Quality Control:

• Method Blanks: Were target analytes ≤ 1/2 MRL?	[ ]	[N]
• LCS: Were the percent recoveries for LCS within the limits?	[N]	[ ]
• MS: Were the percent recoveries within limits?	[ ]	[N]
• MD: Were the RPDs within control limits?	[ ]	[N]

11. Serial Dilution:

• Was serial dilution (1:4) conducted when needed?	[N]	[ ]

	Yes	No
• Was there an agreement between diluted and undiluted results (<10%)?	[ ]	[N]

12. Method of Standard Addition (MSA):

• Was MSA performed on samples suspected of matrix effect (R ≥ 0.995)? N/A	[ ]	[ ]

13. Comments (attach additional sheets if necessary):

No Hg

MS/MSD LL255-516M-0001-SO
Sb (26)+27, As (64), Cr (17)+69, Co (71), Cu (67), Pb (63), Ni (34)+73, Se (62)+70

MS LL15B-645M-0101-SO
Sb (46)+44, As (70), Cd (66)+63, Cr (11)+4, Cu (31)+13, Ni (47)+55, Se (68)+66
Ba (-, 64) Tl RPD = 29%

MS EB 2-1+11
Hg only

PDS LL255-516M-0001-SO ~~Sb, Be, Cd~~ Se + Sb OK, rest not spiked

PDS LL15B-645M-0101-SO Sb, As + Se OK, rest not spiked

SD LL255-516M-0001-SO Al (16), Ca (12), ~~Zn (12)~~

SD LL15B-645M-0101-SO Cd (15)

Validated/Reviewed by:

Signature: Patti Meeks Date: 4/27/12

Name: Patti Meeks

78Se %RSD - 18%

ICPMS MB 240-8611/1-A w/ all except -30
8922 w/ -30
240-14648 listed w/ 14 + its MS/D

Hg MB 240-8619 w/ all but -30
8929 w/ -30

- 14 analyses 8/25 @ 22:20 (As, Ba, Cr, Cu, Ni, Pb, Sb, Se, Tl, V) — Tune: Se %RSD = 18.1%
CCV/B @ 21:57/22:04 + 23:03/23:10, MB 8611

- 4 analyses 8/25 @ 22:49 (As Ba, Cr, Cu, Fe, K, Mg, Na, Pb, Sb, Se, Tl, V, Ni
same CCV/B + MB as a14 above

~~K = 710~~ Mg = 3300

Cr^{6+} + NC

~~CYANIDE~~ ANALYSIS CHECKLIST

Project Name: RVAAP Prudent Conf Sampling LL1-4+12

Laboratory: TA - N. Canton

Batch Number(s): _____

Sample Delivery Group: J1728

N - LL2SS - 516M - 0001 - SO
LL3SD - 416M - 0001 - SD
- 14 0.45 mg/kg
- 4 0.46 mg/kg

	Yes	No
1. Holding Time:		
• Were samples analyzed within holding time?	[ ]	[N]
2. Initial Calibration:		
• Did the initial calibration consist of		
One calibration standard and a blank?	[ ]	[ ]
~~Six~~ 5 calibration standards and a blank?	[N]	[ ]
• Was R ≥ 0.995	[N]	[ ]
3. QCMDL:		
• Was MDL Check performed?	[ ]	[N]
4. QCMRL:		
• Were QC/MRL run at the beginning of every daily sequence??	[ ]	[N]
• Was the QC/MRL between 70-130% R?	[ ]	[ ]
5. Initial Calibration Verification (ICV):		
• Is the mid level (2nd source) recovery within 80-120%?	[N]	[ ]
7. Initial calibration Blank (ICP):		
• Were analytes in the blank ≤ 1/2 MRL?	[N]	[ ]

	Yes	No
7. Continuing calibration Blank (CCB):	[N]	[ ]
• Was CCB conducted every 10 samples?	[N]	[ ]
• Was CCB conducted at end of the analytical sequence?	[N]	[ ]
• Were analytes ≤ 1/2 MRL?		
8. Continuing Calibration Verification (CCV):		
• Was CCV conducted every 10 samples?	[ ]	[ ]
• Was CCV conducted at end of the analytical sequence?	[N]	[ ]
• Was the %R between 80-120?	[N]	[ ]
9. Sample Analysis:		
• Were samples with levels higher than the calibration range (E), diluted and re-analyzed?	[ ]	[ ]
12. Sample Quality Control:		
• Method Blanks: Were target analytes ≤ 1/2 MRL?	[N]	[ ]
• LCS: Were the percent recoveries for LCS within the limits?	[N]	[ ] 106 + 111%
• MS: Were the percent recoveries within limits?	[N]	[ ]
• MD: Were the RPDs within control limits?	[N]	[ ]

13. Comments (attach additional sheets if necessary):

MS/D EQUIP RINSATE 2-1-11 - OK

~~FCB~~ MB = -0.601 mg/kg J both

MS/D on NC for LL255-516M-0001-SO (20% + 20%)
NC dup on LL35D-416M-0001-SD OK

NC: LCS 64% 34-115%
MS/D 20% + 20% on LL35B-416M-0101-SD

MDL 0.002 mg/L
2.5 g to 100mL

	Yes	No

Validated/Reviewed by:

Signature: Pat Mes Date: 5/12/17

Name: Pat. Meals

-14 collected 7/3 prepped 7/18 analyzed 7/20
-4 7/2

POLY CHLORINATED BIPHENYLS (PCB/AROCLORS) CHECKLIST

Project Name: Ravenna Confirmation

Laboratory: TA - North Canton

Batch Number(s): 240-8031, -8270, -8599

Sample Delivery Group: J1620, J1728

	Yes	No
1. Holding Time:		
(a) Were samples extracted within holding time?	[✓]	[ ]
(b) Were samples analyzed within holding time?	[✓]	[ ]
2. Initial Calibration:		
• Did the initial calibration consist of five standards? (6)	[✓]	[ ]
• Did Aroclors 1016 and 1260 meet the RSD ≤ 20% or the r ≥ 0.99?	[✓]	[ ]
• Was manual integration "M" performed? If the answer is "Yes", check for supporting documents. baseline correction/several Aroclors	[✓]	[ ]
• Was the manual integration necessary?	[✓]	[ ]
If the answer is "no", contact the laboratory inquiring about the reasons behind the manual integration, and **inform the District Chemist immediately if there were no valid reasons.**		
3. QCMDL:		
• Was MDL Check performed?	[ ]	[✓]
4. QCMRL:		
• Were QC/MRL run at the beginning and end of every daily sequence or every 12 hours?? all results ≥ 10 × RL estimated, J/UJ-C	[ ]	[✓]
• Was the QC/MRL between 70-130% R N/A	[ ]	[ ]
5. Initial Calibration Verification (ICV): ± 20% QSM		
Is the mid level (2nd source) recovery within ~~85 - 115~~%?	[✓]	[ ]

	Yes	No
6. Continuing Calibration Verification (CCV):		
• Was CCV conducted every 12 hours?	[✓]	[ ]
• Was Drift or D ~~≤ 15%~~ ± 20% from the initial calibration with a maximum %D < 20% for a specific compound?	[✓]	[ ]
7. Sample Analysis:		
• Was the RRT of an identified component within the retention time window created as SW-846 requires?	[✓]	[ ]
• Were samples with levels higher than the calibration range (E), diluted and re-analyzed? N/A	[✓]	[ ]
• Were identified Aroclors confirmed on a second GC column?	[✓]	[ ]
• Were individual Aroclor standards used to determine the pattern of the peaks? (Individual Aroclors are 1221, 1232, 1242, 1248, and 1254. Both Aroclor 1016, and 1260 can be used from the mixed calibration standards.)	[✓]	[ ]
• Was RPD of target analyte conformation ≤ 40?	[✓]	[ ]
8. Sample Quality Control:		
• Method Blanks: Were target analytes ≤ 1/2 MRL? (ND)	[✓]	[ ]
• LCS: Were the percent recoveries for LCS within the limits?	[✓]	[ ]
• MS/MSD: Were the percent recoveries within limits? 1260 138% MS / 143% MSD (1254 J/Q)	[✗]	[✓]
Were the RPDs within control limits?	[✓]	[ ]
• System Monitoring Compounds (Surrogates): are surrogate recoveries within QC limits?	[✗]	[✓]

DCB ↑ in LL255-519M-0001-50 156/135
LL255-516M-0001-50 152/200
LL~~55D~~ -416M-0001-5D 146/322

9. Comments (attach additional sheets if necessary):

Samples analyzed @ 5x dilutions for Aroclor 1254:
LL255-519M-0001-SO
LL255-516M-0001-SO

Validated/Reviewed by:

Signature: L S Calvin

Date: 5.15.2012

Name: L.S. Calvin

ORGANOCHLORINE PESTICIDES ANALYSIS CHECKLIST

Project Name: Ravenna Confirmation

Laboratory: TA-North Canton

Batch Number(s): 240-8071, -8260, -8599-8605 MC

Sample Delivery Group: J1620, J1728

	Yes	No
1. Holding Time:		
(a) Were samples extracted within holding time?	[✓]	[ ]
(b) Were samples analyzed within holding time?	[✓]	[ ]
2. DDT/Endrin Breakdown:		
• Was breakdown ≤ 15%?	[✓]	[ ]
3. Initial Calibration:		
• Did the initial calibration consist of five standards? (6)	[✓]	[ ]
• Did all compounds meet the RSD ≤ 20% or r^2 ≥ 0.99?	[✓]	[ ]
• Was manual integration "M" performed? If the answer is "Yes", check for supporting documents.	[✓]	[ ]
• Was the manual integration necessary? correct baseline over split peaks/toxaphene If the answer is "no", contact the laboratory inquiring about the reasons behind the manual integration, and **inform the District Chemist immediately if there were no valid reasons.**	[✓]	[ ]
4. QCMDL:		
• Was MDL Check performed?	[ ]	[✓]
5. QCMRL:		
• Were QC/MRL run at the beginning and end of every daily sequence or every 12 hours??	[ ]	[✓]
• Was the QC/MRL between 70-130% R all result < 10 RL estimated / J, NJ/C NA	[ ]	[ ]

	Yes	No
6. Initial Calibration Verification (ICV):		
• Is the mid level (2nd source) recovery within ~~85 - 115%~~ ± 20% QSM?	[✓]	[ ]
7. Continuing Calibration Verification (CCV):		
• Was CCV conducted every 12 hours?	[✓]	[ ]
• Was Drift or D ~~≤ 15%~~ ± 20% QSM from the initial calibration with a maximum D ≤ 20% for a specific compound? see attached table	[ ]	[✓]
8. Sample Analysis:		
• Was the RRT of an identified component within the retention time window created as SW-846 requires?	[✓]	[ ]
• Were samples with levels higher than the calibration range (E), diluted and re-analyzed?	[✓]	[ ]
• Were identified compounds confirmed on a second GC column? LL 3-SD-416M-0001-SD beta-BHC 76% J LL 2-SS-516M-0001-SO g.chlord. 115% NJ	[✓]	[ ]
• Was RPD of target analyte confirmation ≤ 40?	[ ]	[✓]
9. Sample Quality Control:		
• Method Blanks: Were target analytes ≤ 1/2 MRL?	[✓]	[ ]
• LCS: Were the percent recoveries for LCS within the limits?	[✓]	[ ]
• MS/MSD: Were the percent recoveries within limits? (NA-analyzed @ 20X dilution)	[ ]	[✓]
Were the RPD within control limits?	[ ]	[ ]
• System Monitoring Compounds (Surrogates): are surrogate recoveries within QC limits? (those affecting sample data)	[✓]	[ ]

10. Comments (attach additional sheets if necessary):

Dilutions — no explanation: 20X LL255-516M-0001-SO
50X LL35D-416M-0001-SD

Validated/Reviewed by:

Signature: R C Calvin Date: 05.15.2012

Name: R.S. Calvin

Samples qualified for CCV %D outliers			
Analyte	**Primary Column %D**	**Confirmation Column %D**	**Affected Samples**
heptachlor	-22.3%	-24.7%	CHASS-001M-0001-SO
4,4'-DDT	-29.5%	-31.4%	
endrin aldehyde	-25.8%	-28.0%	
methoxychlor	-26.9%	-29.0%	
endrin ketone	-23.9%	-24.3%	
toxaphene	-21.3% (avg.)	-25.0% (avg.)	

SEMIVOLATILE ORGANIC ANALYSIS CHECKLIST - PAH

Project Name: Ravenna Confirmation

Laboratory: TA - North Canton

Batch Number(s): 240-8076, 8237, 8437, 8593

Sample Delivery Group: J1620, J1728

		Yes	No
1.	Sample Holding Time:		
	(a) Were samples extracted within holding time?	[✓]	[ ]
	(b) Were samples analyzed within holding time?	[✓]	[ ]
2.	Instrument Tuning:		
	Was the DFTPP tune performed at the beginning of each 12-hour period during which samples were analyzed?	[✓]	[ ]
3.	Ion Mass Assignments:		
	Was mass assignment based on m/z 198?	[✓]	[ ]
4.	Ion Abundance:		
	Indicate if DFTPP ions abundance relative to m/z 198 base peak met the ions abundance criteria:		
	m/z — Acceptance Criteria		
	51 — 30.0 - 60.0 %	[✓]	[ ]
	68 — < 2% of mass 69	[✓]	[ ]
	70 — < 2% of mass 69	[✓]	[ ]
	127 — 40-60%	[✓]	[ ]
	197 — < 1%	[✓]	[ ]
	198 — 100%, Base peak	[✓]	[ ]
	199 — 5-9%	[✓]	[ ]
	275 — 10 - 30%	[✓]	[ ]
	365 — > 1%	[✓]	[ ]
	441 — present but < mass 443	[✓]	[ ]
	442 — > 40%	[✓]	[ ]
	443 — 17-23% of mass 442	[✓]	[ ]

	Yes	No
5.0 Initial Calibration:		
• Did the initial calibration consist of five or more standards?	5-stds [✓] (4) more [✓]	[ ] [ ]
If the calibration curve consists of 5-standards, check validity of the calibration model.		
Was the linear model applied?	[✓]	[ ]
• Did the followings System Performance Check Compounds (SPCC) meet the minimum mean response factor (RF)?		
RF		
N-nitroso-di-n-propylamine 0.05 } NTCs PAH only	[✓]	[ ]
Hexachlorocyclopentadiene 0.05 } NTCs PAH only	[✓]	[ ]
2,4-dinitrophenol 0.05 } NTCs PAH only	[✓]	[ ]
4-nitrophenol 0.05 } NTCs PAH only	[✓]	[ ]
• Did the RSD meet the criteria ≤ 30% for the followings each individual Calibration Check Compound (CCC)?		
Base/Neutral Fraction:		
Acenaphthene	[✓]	[ ]
1,4-Dichlorobenzene } NTCs - PAH only	[✓]	[ ]
Hexachlorobutadiene } NTCs - PAH only	[✓]	[ ]
Diphenylamine } NTCs - PAH only	[✓]	[ ]
Di-n-octylphthalate } NTCs - PAH only	[✓]	[ ]
Fluoranthene	[✓]	[ ]
Benzo(a)pyrene	[✓]	[ ]
Acid Fraction:		
4-Chloro-3-methylphenol } NTCs - PAH only	[✓]	[ ]
2,4-Dichlorophenol } NTCs - PAH only	[✓]	[ ]
2-Nitrophenol } NTCs - PAH only	[✓]	[ ]
Phenol } NTCs - PAH only	[✓]	[ ]
Pentachlorophenol } NTCs - PAH only	[✓]	[ ]
2,4,6-Trichlorophenol } NTCs - PAH only	[✓]	[ ]
• Are the RSDs for the remaining target analytes ≤ 15%?	[✓]	[ ]
• If the answer is "No", are the mean RSDs ≤ 15% or r ≥ 0.99 with a mean RSD ≤ 15% with a maximum RSD ≤ 30%?	N/A [ ] ✓ [ ]	[ ] [ ]

	Yes	No
• Was manual integration "M" performed?	[✓]	[ ]

If the answer is "Yes", check for supporting documents.

• Was the manual integration necessary? missed peaks, split peaks, baseline routine separation of benzo(b)/(k)+fluoranthene	[✓]	[ ]

If the answer is "No", contact the laboratory inquiring about the reasons behind the manual integration, and **inform the District Chemist immediately if there were no valid reasons**.

6. QCMDL:

• Was MDL Check performed?	[ ]	[✓]

7. QCMRL:

• Were QC/MRL run at the beginning and end of every daily sequence or every 12 hours?	[ ]	[✓]
Results < 10X RL — J/NJ/C		
• Was the QC/MRL between 70-130% R	[ ]	[ ]
N/A ↓		
• For the non-contaminants of concern was the QC/MRL between 50-150% (Sporadic Marginal Failure)?	[ ]	[ ]

8. Initial Calibration Verification (ICV):

PAH / ± 20%	[✓] MC	[✓]
• Is the mid level (2nd source) recovery within ~~70-130%~~ for contaminants of concern? full list 24DNP 73.2%		
• Is the mid level (2nd source) recovery within 50-150% for non-contaminants of concern (Sporadic Marginal Failure)? N/A	[ ]	[ ]

9. Continuing Calibration Verification (CCV):

• Was CCV conducted every 12 hours?	[✓]	[ ]
• Did any of SPCC meet the minimum RF values?	[✓]	[ ]

			Yes	No
N-nitroso-di-n-propylamine	0.05	MTCs - PAH only	[✓]	[ ]
Hexachlorocyclopentadiene	0.05		[✓]	[ ]
2,4-dinitrophenol	0.05		[✓]	[ ]
4-nitrophenol	0.05		[✓]	[ ]

- Did the CCC meet the minimum requirements (D ≤ 20%) for the followings?

		Yes	No
Base/Neutral Fraction:			
Acenaphthene	MTCs - PAH only	[✓]	[ ]
1,4-Dichlorobenzene		[✓]	[ ]
Hexachlorobutadiene		[✓]	[ ]
Diphenylamine		[✓]	[ ]
Di-n-octylphthalate		[✓]	[ ]
Fluoranthene		[✓]	[ ]
Benzo(a)pyrene		[✓]	[ ]
Acid Fraction:			
4-Chloro-3-methylphenol	MTCs - PAH only	[✓]	[ ]
2,4-Dichlorophenol		[✓]	[ ]
2-Nitrophenol		[✓]	[ ]
Phenol		[✓]	[ ]
Pentachlorophenol		[✓]	[ ]
2,4,6-Trichlorophenol		[✓]	[ ]

- Primary Evaluation: Was Drift or D ≤ 20% calculated from the initial calibration? [✓] [ ]
- Alternative Evaluation: Maximum allowable Drift/D for each target analyte is ≤ 30%. N/A [ ] [ ]

10. Sample Analysis:

- Was the RRT of an identified component within ± 0.06 RRT units of the RRT of the standard component? [✓] [ ]
- Did the abundance of ions in the sample spectra agree within 30% of the major ions (> 10% of the base ion) in the standard spectra? [✓] [ ]
- Were the internal standard areas within the QC limits (from -50% to +200%)? [✓] [ ]

11. Sample Quality Control:

	Yes	No
• Method Blanks: Were target analytes ≤ 1/2 MRL? LD for PAH	[✓]	[ ]
• LCS: Were the percent recoveries for LCS within the limits?	[✓]	[ ]
• MS/MSD: Were the percent recoveries within limits? N/A see attached table	[ ]	[✓]
Were the RPD within control limits? ↓	[✓]	[ ]
• System Monitoring Compounds (Surrogates): are surrogate recoveries within QC limits? QSM 4	[✓]	[ ]

12. Comments (attach additional sheets if necessary):
LL355-419M-0001-SO / 2X for TCs
MBs 8074 ND
8237
8437
8593 ↓

Validated/Reviewed by:

Signature: MCalvin Date: 05.14.2012

Name: L.S. Calvin

Samples qualified for LCS recovery outliers				
QC Batch	**Analyte**	**Recovery**	**Recovery Limits**	**Affected samples**
240-8237	hexachlorobutadiene	37%	40-115%	LL3SD-416M-0001-SD
	1,2-dichlorobenzene	42%	45-110%	
	1,3-dichlorobenzene	38%	40-100%	
	1,2,4-trichlorobenzene	38%	45-110%	
	2,4,5-trichlorophenol	49%	50-110%	
	2,4,6-trichlorophenol	36%	45-110%	

SEMIVOLATILE ORGANIC ANALYSIS CHECKLIST

Project Name: Ravenna Continuation

Laboratory: TA- North Canton

Batch Number(s): 240-8237, 8437, 8076

Sample Delivery Group: J1620, J1728

	Yes	No
1. Sample Holding Time:		
(a) Were samples extracted within holding time?	[✓]	[ ]
(b) Were samples analyzed within holding time?	[✓]	[ ]
2. Instrument Tuning:		
Was the DFTPP tune performed at the beginning of each 12-hour period during which samples were analyzed?	[✓]	[ ]
3. Ion Mass Assignments:		
Was mass assignment based on m/z 198?	[✓]	[ ]
4. Ion Abundance:		
Indicate if DFTPP ions abundance relative to m/z 198 base peak met the ions abundance criteria:		

m/z	Acceptance Criteria		
51	30.0 - 60.0 %	[✓]	[ ]
68	< 2% of mass 69	[✓]	[ ]
70	< 2% of mass 69	[✓]	[ ]
127	40-60%	[✓]	[ ]
197	< 1%	[✓]	[ ]
198	**100%, Base peak**	[✓]	[ ]
199	5-9%	[✓]	[ ]
275	10 - 30%	[✓]	[ ]
365	> 1%	[✓]	[ ]
441	present but < mass 443	[✓]	[ ]
442	> 40%	[✓]	[ ]
443	17-23% of mass 442	[✓]	[ ]

	Yes	No
5.0 Initial Calibration:		
• Did the initial calibration consist of five or more standards?	5-stds [✓] (4) more [✓]	[ ] [ ]
If the calibration curve consists of 5-standards, check validity of the calibration model.		
Was the linear model applied?	[✓]	[ ]
• Did the followings System Performance Check Compounds (SPCC) meet the minimum mean response factor (RF)?		
N-nitroso-di-n-propylamine (RF 0.05)	[✓]	[ ]
Hexachlorocyclopentadiene (RF 0.05)	[✓]	[ ]
2,4-dinitrophenol (RF 0.05)	[✓]	[ ]
4-nitrophenol (RF 0.05)	[✓]	[ ]
• Did the RSD meet the criteria ≤ 30% for the followings each individual Calibration Check Compound (CCC)?		
Base/Neutral Fraction:		
Acenaphthene	[✓]	[ ]
1,4-Dichlorobenzene	[✓]	[ ]
Hexachlorobutadiene	[✓]	[ ]
Diphenylamine	[✓]	[ ]
Di-n-octylphthalate	[✓]	[ ]
Fluoranthene	[✓]	[ ]
Benzo(a)pyrene	[✓]	[ ]
Acid Fraction:		
4-Chloro-3-methylphenol	[✓]	[ ]
2,4-Dichlorophenol	[✓]	[ ]
2-Nitrophenol	[✓]	[ ]
Phenol	[✓]	[ ]
Pentachlorophenol	[✓]	[ ]
2,4,6-Trichlorophenol	[✓]	[ ]
• Are the RSDs for the remaining target analytes ≤ 15%? or r ≥ 0.990	[✓]	[ ]
• If the answer is "No", are the mean RSDs ≤ 15% or r ≥ 0.99 with a mean RSD ≤ 15% with a maximum RSD ≤ 30%?	N/A [ ] ↓ [ ]	[ ] [ ]

	Yes	No
• Was manual integration "M" performed?	[✓]	[ ]
If the answer is "Yes", check for supporting documents.		
• Was the manual integration necessary? routine benzo(b)/(k), split peaks missed peaks, baseline convection	[✓]	[ ]
If the answer is "No", contact the laboratory inquiring about the reasons behind the manual integration, and **inform the District Chemist immediately if there were no valid reasons**.		

6. QCMDL:

• Was MDL Check performed?	[ ]	[✓]

7. QCMRL:

• Were QC/MRL run at the beginning and end of every daily sequence or every 12 hours?	[ ]	[✓]
• Was the QC/MRL between 70-130% R ≥ 10 x RL estimated J/UJ - C N/A	[ ]	[ ]
• For the non-contaminants of concern was the QC/MRL between 50-150% (Sporadic Marginal Failure)?	[ ]	[ ]

8. Initial Calibration Verification (ICV):

• Is the mid level (2nd source) recovery within ~~70-130%~~ ±20% for contaminants of concern ? 2,4 DNP -26.8%	[ ]	[✓]
• Is the mid level (2nd source) recovery within 50-150% for non-contaminants of concern (Sporadic Marginal Failure)? N/A	[ ]	[ ]

9. Continuing Calibration Verification (CCV):

• Was CCV conducted every 12 hours?	[✓]	[ ]
• Did any of SPCC meet the minimum RF values?	[✓]	[ ]

		Yes	No
N-nitroso-di-n-propylamine	0.05	[✓]	[ ]
Hexachlorocyclopentadiene	0.05	[✓]	[ ]
2,4-dinitrophenol	0.05	[✓]	[ ]
4-nitrophenol	0.05	[✓]	[ ]

- Did the CCC meet the minimum requirements (D ≤ 20%) for the followings?

Base/Neutral Fraction:

Acenaphthene	[✓]	[ ]
1,4-Dichlorobenzene	[✓]	[ ]
Hexachlorobutadiene	[✓]	[ ]
Diphenylamine	[✓]	[ ]
Di-n-octylphthalate	[✓]	[ ]
Fluoranthene	[✓]	[ ]
Benzo(a)pyrene	[✓]	[ ]

Acid Fraction:

4-Chloro-3-methylphenol	[✓]	[ ]
2,4-Dichlorophenol	[✓]	[ ]
2-Nitrophenol	[✓]	[ ]
Phenol	[✓]	[ ]
Pentachlorophenol	[✓]	[ ]
2,4,6-Trichlorophenol	[✓]	[ ]

- Primary Evaluation: Was Drift or D ≤ 20% calculated from the initial calibration? [·] [ ]
- Alternative Evaluation: Maximum allowable Drift/D for each target analyte is ≤ 30%. N/A [ ] [ ]

10. Sample Analysis:

- Was the RRT of an identified component within ± 0.06 RRT units of the RRT of the standard component? [✓] [ ]
- Did the abundance of ions in the sample spectra agree within 30% of the major ions (> 10% of the base ion) in the standard spectra? [✓] [ ]
- Were the internal standard areas within the QC limits (from -50% to +200%)? [✓] [ ]

11. Sample Quality Control:

	Yes	No
• Method Blanks: Were target analytes ≤ 1/2 MRL?	[ ]	[ ]
• LCS: Were the percent recoveries for LCS within the limits?	[ ]	[ ]
• MS/MSD: Were the percent recoveries within limits? see attached tables	[ ]	[✓]
Were the RPD within control limits?	[ ]	[✓]
• System Monitoring Compounds (Surrogates): are surrogate recoveries within QC limits?	[✓]	[ ]

12. Comments (attach additional sheets if necessary):

MBs 8237 ND
8437 bis 28.3 J
8071e ↓ 23.2 J
Dilutions for target compound concentrations:
~~LL255-001M-0001-50 / 20X~~ MC
LL255-516M-0001-50 / 4X
LL35D-416M-0001-5D / 20X

Validated/Reviewed by:

Signature: L A Calvin Date: 05.14.2012

Name: L.S. Calvin

Samples qualified for LCS recovery outliers				
QC Batch	**Analyte**	**Recovery**	**Recovery Limits**	**Affected samples**
240-8237	hexachlorobutadiene	37%	40-115%	LL3SD-416M-0001-SD
	1,2-dichlorobenzene	42%	45-110%	
	1,3-dichlorobenzene	38%	40-100%	
	1,2,4-trichlorobenzene	38%	45-110%	
	2,4,5-trichlorophenol	49%	50-110%	
	2,4,6-trichlorophenol	36%	45-110%	

Samples qualified for MS/MSD recovery outliers			
Parent Sample	**Analyte**	**MS / MSD %R**	**Recovery Limits**
LL2SS-516M-0001-SO	**benzoic acid**	**0% / 0%**	10-110%
	4,6-dinitro-2-methylphenol	**0% / 0%**	30-135%
	2,4-dinitrophenol	**0% / 0%**	15-130%
	hexachloroethane	23% / 25%	35-110%
	pentachlorophenol	**0% / 0%**	25-120%
LL3SS-419M-0001-SO	anthracene	31% / 22%	55-105%
	benzo(a)anthracene	15% / 2%	50-110%
	benzo(a)pyrene	20% / 9%	50-110%
	benzo(b)fluoranthene	21% / 9%	45-115%
	benzo(k)fluoranthene	39% / 29%	45-125%
	chrysene	17% / 5%	55-110%
	fluoranthene	-60% / -80%	55-115%
	pyrene	-32% / -53%	45-125%
	phenanthrene	-47% / -66%	50-110%

Bold analytes and recoveries indicate rejected results.

The RPDs were within the control limit of ≤30% listed in DoD QSM Table F-4, with exceptions affecting parent sample data listed in the table below.

Parent Sample	Analyte	RPD
LL2SS-516M-0001-SO	1,3-dichlorobenzene	31%
	benzo(a)pyrene	58%
	2,4,6-trichlorophenol	200%

VOLATILE ORGANIC ANALYSIS CHECKLIST

Project Name: Ravenna/Confirmation

Laboratory: TA - North Canton

Batch Number(s): 240-8134

Sample Delivery Group (SDG): J1728

	Yes	No
1. Holding Time:		
(a) Were samples preserved? (soils)	[ ]	[✓]
(b) Were samples analyzed within holding time?	[✓]	[ ]
2. Was the BFB tune performed at the beginning of each 12-hour period during which samples were analyzed?	[✓]	[ ]
3. Was mass assignment based on m/z 95?	[✓]	[ ]
4. Indicate if BFB ions abundance relative to m/z 95 base peak met the ions abundance criteria:		

m/z	Acceptance Criteria		
50	15.0 - 40.0 %	[✓]	[ ]
75	30.0 - 66.0 %	[✓]	[ ]
95	**100%, Base Peak**	[✓]	[ ]
96	5.0 - 9.0%	[✓]	[ ]
173	<2.0% of m/z 174	[✓]	[ ]
174	>50%	[✓]	[ ]
175	5.0 - 9.0% of mass 174	[✓]	[ ]
176	95.0 - 101.0% of m/z 174	[✓]	[ ]
177	5.0 - 9.0% of m/z 176	[✓]	[ ]

The relative ion abundance of m/z 95/96, m/z 174/176, and 176/177 are of critical importance.

The relative ion abundance of m/z 50 and 75 are of lower importance.

	Yes	No
5. Initial Calibration:		
• Did the initial calibration consist of five standards? A3 WX 14 7.7.11 (8)	[✓]	[ ]
• Did the System Performance Check Compounds (SPCC) meet the minimum mean response factor (RF)?		
Chloromethane (RF 0.1)	[✓]	[ ]
1,1-Dichloroethane (RF 0.1)	[✓]	[ ]
Bromoform (RF 0.1)	[✓]	[ ]
Chlorobenzene (RF 0.3)	[✓]	[ ]
1,1,2,2-Tetrachloroethane (RF 0.3)	[✓]	[ ]
• Did the RSD meet the criteria ≤ 30% for each individual Calibration Check Compound (CCC)?		
1,1-Dichloroethene	[✓]	[ ]
Chloroform	[✓]	[ ]
1,2-Dichloropropane	[✓]	[ ]
Toluene	[✓]	[ ]
Ethylbenzene	[✓]	[ ]
Vinyl chloride	[✓]	[ ]
• Are the RSDs for the remaining target analytes ≤ 15% or r ≥ 0.99 with a mean RSD ≤ 15% with a maximum RSD ≤ 20%?	[✓]	[ ]
If the answer is "No", are the mean RSDs ≤ 15%? N/A	[ ]	[ ]
• Was manual integration "M" performed?	[ ]	[✓]
If the answer is "Yes", check for supporting documents. N/A	[ ]	[ ]
• Was the manual integration necessary?	[ ]	[ ]
If the answer is "No", contact the laboratory inquiring about the reasons behind the manual integration, and **inform the District Chemist immediately if there were no valid reasons**.		
6. QCMDL:	[ ]	[✓]
• Was MDL Check performed?		
7. QCMRL:	[ ]	[✓]

	Yes	No
• Were QC/MRL run at the beginning and end of every daily sequence or every 12 hours? All results <10x RL J/UJ-C	[ ]	[✓]
• Was the QC/MRL between 70-130% R	N/A [ ]	[ ]
• For the non-contaminants of concern was the QC/MRL between 60-140% (Sporadic Marginal Failure)	[ ]	[ ]

8. Initial Calibration Verification (ICV):

	[ ]	[✓]
• Is the mid level (2nd source) recovery within 80 - 120% for contaminants of concern ? vinyl acetate 136% HD in samples		
• Is the mid level (2nd source) recovery within 60-140% for non-contaminants of concern (Sporadic Marginal Failure)?	N/A	

9. Continuing Calibration Verification (CCV):

• Was CCV conducted every 12 hours?	[✓]	[ ]
• Did SPCC meet the RF values?	[✓]	[ ]

RF

Chloromethane	0.1	[✓]	[ ]
1,1-Dichloroethane	0.1	[✓]	[ ]
Bromoform	0.1	[✓]	[ ]
Chlorobenzene	0.3	[✓]	[ ]
1,1,2,2-Tetrachloroethane	0.3	[✓]	[ ]

• Did the CCC meet the minimum requirements (D ≤ 20%)?	[✓]	[ ]
1,1-Dichloroethene	[✓]	[ ]
Chloroform	[✓]	[ ]
1,2-Dichloropropane	[✓]	[ ]
Toluene	[✓]	[ ]
Ethylbenzene	[✓]	[ ]
Vinyl chloride	[✓]	[ ]
• Primary Evaluation: Was the mean, Drift or D ≤ 20% from the initial calibration?	[✓]	[ ]
• Alternative Evaluation: Maximum allowable Drift/D for		

	Yes	No
each target analyte is ≤ 30% when mean D ≤ 20%? N/A	[ ]	[ ]

10. Sample Analysis:

	Yes	No
• Was the RRT of an identified component within ± 0.06 RRT units of the RRT of the standard component?	[✓]	[ ]
• Did the abundance of ions in the sample spectra agree within 30% of the major ions (> 10% of the base ion) in the standard spectra?	[✓]	[ ]
• Were the internal standard areas within the QC limits (from -50% to +200%)?	[✓]	[ ]

11. Sample Quality Control:

	Yes	No
• Method Blanks: Were target analytes ≤ 1/2 MRL?. Methylene chloride < MRL / ND in samples	[✓]	[ ]
• LCS: Were the percent recoveries for LCS within the limits?	[✓]	[ ]
• MS/MSD: Were the percent recoveries within limits? MS only see attached table	[✓]	[✓]
Were the RPD within control limits? N/A	[ ]	[ ]
System Monitoring Compounds (Surrogates): are surrogate recoveries within QC limits (50-150%)? ~~BFB~~ + ~~DS-Tol~~ ↓	[ ]	[✓]

12. Comments (attach additional sheets if necessary):

	BFB (85-120)	D8 Tol. (85-115)	
1728-5	74%	74%	> all J/UJ-S
-15	77%	76%	

Validated/Reviewed by:
Signature: M Calvin Date: 05.14.2012

Name: L.S. Calvin

Samples qualified for MS/MSD recovery outliers			
Parent Sample	**Analyte**	**MS %Recovery**	**Recovery Limits**
LL2SS-516M-0001-SO	cis-1,3-dichloropropene	66%	70-125%
	bromodichloromethane	68%	70-130%
	m, p-xylenes (total qualified)	78%	80-125%
	styrene	71%	70-125%
	trans-1,3-dichloropropene	61%	65-125%
	vinyl chloride	58%	60-125%

Appendix I – Draft Report Addendum #1 Revised Section 8.1, 8.2 and 8.3

8.0 QUALITY CONTROL/ASSURANCE

8.1 ANALYTICAL PROBLEM REPORT

Pesticide Problems

Major discrepancies in the results of pesticide analysis were observed between QC (primary) and QA sample results; False Negative results were reported for primary samples due to dilution of sample extracts in the primary laboratory, TestAmerica Laboratories, Inc. High dilution raised reporting limits above levels of contaminants; some levels of analytes became non-detectable at these levels. TestAmerica did not perform any cleanup steps before analysis of the sample extracts. There were discrepancies between results of both columns indicating problems in addition to inadequate sample preparations. It was thus requested that TestAmerica re-extract and re-analysis samples and it was recommended that they use GPC Method EPA3640 before analysis. TestAmerica re-extracted and re-analyzed sample extracts as recommended on December 8, 2011 and reported results that were more comparable to the QA sample results, please, see Amended, ORGANOCHLORINE PESTICIDES ANALYSIS in the Data Verification Report (DVRR), Appendix G.

8.2 DATA VERIFICATION REPORT

A review of the analytical data was conducted and is provided in the Data Verification Report (DVRR), Appendix G. Included in this review were cooler's receipt forms, sample preparation and analysis holding times, and analyses for Volatile Organics, Semivolatile Organics, Polychlorinated Biphenyls (PCB), Organochlorine Pesticides, Explosive Residues, and Metals. The review evaluated method detection limits (MDL), reporting limits, method blanks, laboratory control samples (LCS), duplicate analysis, and matrix spike/matrix spike duplicates (MS/MSD) with relative percent differences (RPD) levels. Comparability of the Primary sample results to those of the QA sample results was summarized in the report. Acceptable precision of the analysis expressed by low levels of RPD was summarized in a table under section 4 of the DVRR. Also, a summary of Non-conformances was summarized in section 5 of the DVRR, See Appendix G.

8.3 MATRIX SPIKE AND MATRIX SPIKE DUPLICATES

Evaluation of the MS/MSDs was conducted for the requested analyses, and all results were accepted per the RPD levels at or below the maximum RPD QC Limits, See Appendix G.

8.4 FIELD QUALITY CONTROL

8.4.1 Equipment Rinsates

Equipment rinsate was collected on July 1 and July 6, 2011. The rinsate samples were submitted to TestAmerica and analyzed for all of the project analytical methods. No contamination was found in these rinsates samples.

8.5 ANALYSES OF TRIPLICATE ISM SAMPLES

To statistically and comprehensively evaluate the total sampling and analysis repeatability for each sample area/decision unit (DU), completely separate replicate ISM samples (collected from a set of systematic random or stratified random locations within the DU that are different from those used for the

initial ISM samples) were collected from selected DUs (see Hawaii Dept. of Health, Technical Guidance Manual for the Implementation of the Hawaii State Contingency Plan). The replicate subsurface ISM sample that was sent to the primary laboratory was called the QC or blind duplicate, and the second replicate subsurface ISM sample that was sent to the quality assurance laboratory was called the QA duplicate. The replicates were made up of the same number of aliquots as the initial or primary sample. The replicate samples were prepared and analyzed in the same manner as carried out for the initial sample. Triplicate samples (i.e., initial ISM sample plus two replicates) are preferred and more useful than duplicates for statistical evaluation. The Primary and QC samples were sent to the primary laboratory, and the QA samples were sent to a second independent laboratory.

For sites with a number of sample areas, "batch" type replicates can be used. For example, a triplicate sample in one sample area can provide data for evaluating precision for up to 10 similar sample areas. Each site will be unique in terms of numbers of sample areas and how similar these sample areas are, so decisions on numbers of replicates are unique to each site and are addressed clearly in the Sampling and Analysis Plan (SAP). Replicate sample increments were generally collected along the same approximate directional lines established through the sample area for the initial or primary ISM sample. The replicate samples were sent to the laboratories as "blind" samples, meaning the laboratories did not know they represented replicate samples of the initial or primary ISM samples.

When field sampling is representative, repeat measurements within the same DU would be expected to estimate the average contaminant concentration similarly. Data from replicate sampling are used to determine:

1. The amount of variation from the mean that will be considered when comparing average contaminant concentrations in the sample areas to applicable CUGs and
2. Whether the estimate of average contaminant concentration(s) is adequately representative for the sample areas under investigation.

There are a number of options available for determining what measure of data variation from the mean will be used when evaluating the ISM sample replicate measurements and comparing ISM sample data to the CUGs. The measure of data variation from the mean that is chosen is a function of the DQO for the site investigation. Two common approaches are:

1. Use of the RSD of the triplicate values, or
2. Use of the 95 percent Upper Confidence Level (UCL) of the replicate (triplicate) values.

The field replicate data collected for sample areas are also used to demonstrate that the investigation error for each contaminant is within a reasonable range that supports a conclusion that average contaminant concentrations (e.g., mean plus standard deviation or 95 percent UCL of the mean) are below or above the relevant CUG. In other words, this evaluation addresses the question of whether the data are good enough to make a decision that the average contaminant concentration is below or above the CUG.

Typically, the Relative Standard Deviation (RSD) of the field replicates (triplicates) is used for this evaluation. The RSD is expressed as a percentage and is calculated using the following formula:

$$RSD(\%) = 100 * (\text{Standard Deviation}/\text{Average})$$

The lower the RSD(%) of the replicate data the better the quality of measurement is. Generally, an RSD(%) of approximately 35 or less indicates the amount of estimated total error is within a reasonable range for decision making. However, this evaluation will also depend on the DQO established for the site

investigation, as well as how close the contaminant concentrations are to the relevant CUGs. For example, if the RSD(%) of replicates for a contaminant concentration in a sample area was determined to be 40 to 50, but the contaminant concentration was a factor or 3 or 4 below the relevant CUG, then a decision that the contaminant is below levels of concern would still be valid. In general, the closer the contaminant level is to the CUG, the more impact this statistical measure will have on site decisions.

The ISM sampling approach provides averages that approximate a statistically "normal distribution" if the RSD(%) of replicates is reasonably low (this is assumed, for example, when determining the 95 percent UCL of replicate data). The higher the RSD(%), the less confidence there is that the averages approximate a normal distribution, and that the average contaminant concentrations are adequately representative of the sample areas. As the RSD(%) exceeds 50, and if the average sample area concentrations are near the relevant CUGs, there is increasing uncertainty that the data are adequately representative. In this case, additional ISM sampling may be necessary, utilizing a larger number of sample increments and/or larger sample increment masses to obtain a more representative measure of the (very heterogeneous) contaminant concentrations in the sample area. Careful evaluation of the sample processing and analysis procedures would also be indicated. In some cases, grinding samples may serve to reduce the RSD(%) and provide more representative sampling data. As the RSD(%) approaches 100 there is little confidence that the sampling data are useful for decision making.

A summary of the RSDs of the surface soil samples is provided in Table 8-1. The RSDs were only calculated for a given chemical when there were detections in the primary, field duplicate, and blind duplicate samples. An average of the RSDs associated with a given analysis was then calculated. For instance, if there were RSD(%)s of 8, 7, 9, 5, 12, and 13 for metals of a given set of primary, field duplicates, and blind duplicates, then the average RSD(%) for metals for that sample group would be 9. For some chemical groups there were more RSDs typically than for others. For instance, there were generally many more individual RSDs for metals than for PCBs. From Table 8-1:

- Average RSD(%) of 82 individual metals was 21, with RSD(%)s for individual metals ranging from 2 to 132;
- Average RSD(%) of 15 individual SVOCs was 33, with RSD(%)s for individual SVOCs ranging from 6 to 73;

The average and the vast majority of the metals RSDs indicated excellent repeatability. The much larger RSDs for the other contaminant groups reflect averages based on very few detections of generally very low values. In summary, the use of 30 increments in a surface soil sample is adequate for situations where there is minimal variation and thus provides a good evaluation of the field and laboratory processing.

Summaries of the relative standard deviations, RSD (%)s of the horizontal subsurface soil ISM samples are provided on Table 8-1. The same general trends noted for the surface soil ISM samples were observed with the subsurface soil ISM samples. Thus, from Table 8-1 for horizontal subsurface soil ISM samples:

- Average RSD(%) of 59 individual metals was 41, with RSDs for individual metals ranging from 3 to 151;
- Average RSD(%) of 5 SVOCs was 47, with RSD(%)s for individual SVOCs ranging from 16 to 58;
- Average RSD(%) of 3 PCBs was 62, with RSDs for individual PCBs ranging from 15 to 116.

Appendix J – IDW Sampling and Analyses

Summit Environmental Technologies, Inc.
3310 Win Street
Cuyahoga Falls, Ohio 44223 Tel: 330.253.8211 Fax: 330.253.4489

Analysis Request/Ch

For Summit Environmental Techn

Page 1 of

Order ID: 1121064 COC

Company Name (Please Print): EMERALD ENV. SVCS., INC	Project Name: PRUDENT TECH @ RAVENNA ARS
Company Address: 1621 ST. CLAIR AVE. KENT, OH 44240	Project Address: 8451 STATE ROUTE 5 RAVENNA, OH 44266
Client Phone No.: 330 677 0785	Report to: CHRIS ARCHACKI
Client Fax No.: 330 677 1567 Please Fax Results ✓ ☐	PO#: EES-PTRA1
Client Email: carchacki@emeraldenvironmental.com Please Email Results ✓ ☑	Quote No.
Contact Person: CHRIS ARCHACKI	
Sampled by: CHRIS A.	Check if Ohio VAP samples ✓ ☐

Please Check Analytical Box ✓

#	Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: S=Solid, L=Liquid, O=Oil SL=Sludge, A=Air, DW=Drinking Water	Preservative	Number of Containers	TCLP RCRA METALS	FLASH	CORROSIVITY	REACTIVITY							
001	DECON WATER +LLS123	10/4/11	13:50	✓		L		1	✓	✓	✓	✓							

1121064-01

Relinquished by:	Date	Time	Received by:	Date	Time
	10/6/11	13:20		10/6/11	13:20
	10/6/11	12:50			
Received in lab by:	Date	Time	Rush Requested By: _____ Date	Must be approved by lab manager	
Jackie Reid	10/7/11	0850			

Notes/Comments:

White and yellow pages should accompany samples to the laboratory. The client retains the pink page.

46583

SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

LABORATORY REPORT

Client
Emerald Environmental
1621 St. Clair Ave.
Kent, OH 44240

Order Number
1121064
REVISED REPORT

Project Number
Prudent @ Ravenna Arsenal

Issued
Wednesday, October 26, 2011

Total Number of Pages
4 (excluding C.O.C. and cooler receipt form)

Approved By : RA Libas

QA Manager

NELAC Accreditation #E87688

Sample Summary

Client: Emerald Environmental
Order Number: 1121064

Laboratory ID	Client ID	Matrix	Sampling Date
1121064-01	001 Decon Water	Liquid	10/4/2011

SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

October 26, 2011

Client: Emerald Environmental
Address: 1621 St. Clair Ave.
Kent, OH 44240

Received: 10/10/2011
Project #: Prudent @ Ravenna Arsenal

TCLP Metals

Client ID#	Lab ID#	Collected	Analyte	Rep Lmt	Result	Units	Matrix	Method	DF	RegLvl	Run	Analyst
001 Decon Water	1121064-01	04-Oct-11	Lead	0.5	ND	mg/L	L	1311	1	5	19-Oct-11	VVK
001 Decon Water	1121064-01	04-Oct-11	Cadmium	0.1	ND	mg/L	L	1311	1	1	19-Oct-11	VVK
001 Decon Water	1121064-01	04-Oct-11	Chromium	0.2	ND	mg/L	L	1311	1	5	19-Oct-11	VVK
001 Decon Water	1121064-01	04-Oct-11	Silver	0.5	ND	mg/L	L	1311	1	5	19-Oct-11	VVK
001 Decon Water	1121064-01	04-Oct-11	Mercury	0.002	ND	mg/L	L	1311	1	0.2	19-Oct-11	VVK
001 Decon Water	1121064-01	04-Oct-11	Barium	5	ND	mg/L	L	1311	1	100	19-Oct-11	VVK
001 Decon Water	1121064-01	04-Oct-11	Arsenic	0.5	ND	mg/L	L	1311	1	5	19-Oct-11	VVK
001 Decon Water	1121064-01	04-Oct-11	Selenium	0.5	ND	mg/L	L	1311	1	1	19-Oct-11	VVK

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
001 Decon Water	1121064-01	04-Oct-11	Flash Point	>200	°F	L	1010	1		11-Oct-11	RMS

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
001 Decon Water	1121064-01	04-Oct-11	pH	9.25@19.4 C	s.u.	L	SM4500-H	1	0.01	11-Oct-11	JRK

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
001 Decon Water	1121064-01	04-Oct-11	Reactive Cyanide	ND	ppm	L	7.3.3.2	1	0.5	11-Oct-11	TIR

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
001 Decon Water	1121064-01	04-Oct-11	Reactive Sulfide	ND	ppm	L	7.3.4.2	1	25	11-Oct-11	TIR

Field Change Request (FCR)

FCR NO. 1 DATE INITIATED JAN 12, 2012

PROJECT LLs 1-4, 12

CONTRACT NO. W912QR-10-P-0037

REQUESTOR IDENTIFICATION

NAME JOHN JENT ORGANIZATION PRUDENT PHONE 502 439-8005

TITLE PROJECT MANAGER SIGNATURE John P Jent

BASELINE IDENTIFICATION

BASELINE(S) AFFECTED ○ Cost ○ Scope ○ Milestone ☒ Method of Accomplishment

AFFECTED DOCUMENT (TITLE, NUMBER AND SECTION) FINAL WORK PLAN FOR LLs-1, 2, 3, 4, 12 30 JULY 2010

DESCRIPTION OF CHANGE: APPENDIX A, SECTION 7.4

INDIGENOUS WASTE WAS TO BE CHARACTERIZED FOR DISPOSAL BASED ON ANALYTICAL RESULTS FROM THE ENVIRONMENTAL SAMPLES.

PROPOSE TO CHARACTERIZE FOR DISPOSAL BASED ON DIRECT ANALYSIS OF COMPOSITE IDW (SOIL CUTTINGS) SAMPLES. TWO SAMPLES, ONE FROM EACH OF THE TWO DRUMS OF SOIL CUTTINGS, WILL BE COLLECTED AND ANALYZED FOR PCBs.

JUSTIFICATION:

PARAGRAPH 8.4 OF THE FACILITY-WIDE SAMPLING + ANALYSIS PLAN ALLOWS FOR CHARACTERIZATION FOR DISPOSAL BASED ON EITHER METHOD.

IMPACT OF NOT IMPLEMENTING REQUEST:

DISPOSAL BASED ON ANALYTICAL RESULTS FROM THE ENVIRONMENTAL SAMPLES WOULD REQUIRE THAT THE TWO DRUMS OF SOIL CUTTINGS BE CONSIDERED AS TSCA WASTE.

DISPOSAL BASED ON DIRECT ANALYSIS OF COMPOSITE IDW MAY ALLOW THE SOIL CUTTINGS TO BE CONSIDERED AS SPECIAL WASTE.

PARTICIPANTS AFFECTED BY IMPLEMENTING REQUEST:

MARK PATTERSON ANDREW KOCHER

KATHRYN TAIT SHELTON M. POOLE

COST ESTIMATE ($) 0.00 ESTIMATOR SIGNATURE John P Jent

PHONE 502 439-8005 DATE JAN 12, 2012

PREVIOUS FCR AFFECTED ○ YES ☒ NO; IF YES, FCR NO. _____

CLIENT PROJECT MANAGER _____ DATE _____

CLIENT QA SPECIALIST _____ DATE _____

[redacted] H&S MANAGER SIGNATURE (IF APPLICABLE) _____ DATE _____

Figure 11-1. Example of FCR to be Used for RVAAP AOC-Specific Investigations

Reviewed [signature], COR (No impact to Scope, Schedule or budget)

Summit Environmental Technologies, Inc.
3310 Win Street
Cuyahoga Falls, Ohio 44223 Tel: 330.253.8211 Fax: 330.253.4489

Analysis Request/C

For Summit Environmental Te

Page ____ c

Order ID: 1126325 COC

Company Name (Please Print): EMERALD ENVIRONMENTAL	Project Name: PRJOENT TECHNOLOGIES FOR RAVENNA ARSENAL
Company Address: 1621 ST. CLAIR AVE. KENT, OH 44240	Project Address: 8451 ST. RT. 5 RAVENNA, OH
Client Phone No.: 3306770785	Report to: CHRIS ARCHACKI
Client Fax No.: 3306771567 Please Fax Results ✓ ☐	PO#: 1220-PRJ-RAAP
Client Email: carchacki@emerald-environmental.com Please Email Results ✓ ☑	Quote No.:
Contact Person: CHRIS ARCHACKI	
Sampled by: CHRIS A.	Check if Ohio VAP samples ✓ ☐

Analytical Parameters and Methods

Please Check Analytical Box ✓

#	Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: S=Solid, L=Liquid, O=Oil SL=Sludge, A=Air, DW=Drinking Water	Preservative	Number of Containers	TCLP METALS	FLASH POINT	CORROSIVITY	REACTIVITY	VOC'S TOTAL	SVOC'S TOTAL	HERBICIDES	PESTICIDES		
001	LLS123	12/20/11	1500	✓									✓	✓	✓	✓		
002	CC-78	12/24/11	1510	✓					✓	✓	✓	✓	✓	✓	✓	✓		

1126325-01-02

Relinquished by:	Date	Time	Received by:	Date	Time
	12/26/11				

Received in lab by:	Date	Time
	12/27/11	9:30

Rush Requested By: _____ Date — Must be approved by lab manager

Notes/Comments:

White and yellow pages should accompany samples to the laboratory. The client retains the pink page.

8068

SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

December 29, 2011

Client: Emerald Environmental
Address: 1621 St. Clair Ave.
Kent, OH 44240

Received: 12/20/2011
Project #: Prudent @ Ravenna Arsenal

Herbicides (8151)

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
001 LLS123	1126325-01	20-Dec-11	MCPP	ND	ug/L	L	8151	1	22	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	2,4 - DB	ND	ug/L	L	8151	1	1.1	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	2,4,5 - T	ND	ug/L	L	8151	1	1.1	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	2,4,5 - TP	ND	ug/L	L	8151	1	1.1	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	Dalapon	ND	ug/L	L	8151	1	1.1	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	Dicamba	ND	ug/L	L	8151	1	1.1	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	Dichloroprop	ND	ug/L	L	8151	1	1.1	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	Dinoseb	ND	ug/L	L	8151	1	1.1	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	MCPA	ND	ug/L	L	8151	1	22	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	2,4 - D	ND	ug/L	L	8151	1	1.1	24-Dec-11	KMG

Pesticides (8081)

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
001 LLS123	1126325-01	20-Dec-11	Delta - BHC	ND	µg/L	L	8081	1	0.02	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	4,4' - DDE	ND	µg/L	L	8081	1	0.02	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	4,4' - DDT	ND	µg/L	L	8081	1	0.02	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	Aldrin	ND	µg/L	L	8081	1	0.02	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	Alpha - BHC	ND	µg/L	L	8081	1	0.02	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	Alpha-Endosulfan (I)	ND	µg/L	L	8081	1	0.02	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	Beta - BHC	ND	µg/L	L	8081	1	0.02	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	4,4' - DDD	ND	µg/L	L	8081	1	0.02	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	Chlordane	ND	µg/L	L	8081	1	0.02	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	Toxaphene	ND	µg/L	L	8081	1	0.02	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	Dieldrin	ND	µg/L	L	8081	1	0.02	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	Endosulfan Sulfate	ND	µg/L	L	8081	1	0.02	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	Endrin	ND	µg/L	L	8081	1	0.02	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	Endrin Aldehyde	ND	µg/L	L	8081	1	0.02	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	Gamma - BHC	ND	µg/L	L	8081	1	0.02	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	Heptachlor	ND	µg/L	L	8081	1	0.02	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	Heptachlor Epoxide	ND	µg/L	L	8081	1	0.02	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	Beta-Endosulfan (II)	ND	µg/L	L	8081	1	0.02	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	Methoxychlor	ND	µg/L	L	8081	1	0.02	24-Dec-11	KMG
001 LLS123	1126325-01	20-Dec-11	Endrin Ketone	ND	µg/L	L	8081	1	0.02	24-Dec-11	KMG

SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

December 29, 2011

Client: Emerald Environmental
Address: 1621 St. Clair Ave.
Kent, OH 44240

Received: 12/20/2011
Project #: Prudent @ Ravenna Arsenal

Semi-VOC (8270C)

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
001 LLS123	1126325-01	20-Dec-11	1,2,4-Trichlorobenzene (120	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	1,2-Dichlorobenzene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	1,2-Diphenylhydrazine	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	1,3-Dichlorobenzene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	1,4-dichlorobenzene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	1-Methylnaphthalene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	2,4,5-Trichlorophenol	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	2,4,6-Trichlorophenol	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	2,4-Dichlorophenol	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	2,4-Dimethylphenol	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	2,4-Dinitrophenol	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	2,4-Dinitrotoluene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	2,6-Dinitrotoluene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	2-Chloronaphthalene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	2-Chlorophenol	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	2-Methylnaphthalene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	2-Nitrophenol	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	3,3'-Dichlorobenzidine	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	4,6-Dinitro-o-cresol	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	4-Bromophenyl phenyl ether	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	4-Chlorophenyl phenyl ether	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	4-Nitrophenol	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Acenaphthene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Acenaphthylene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Anthracene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Benzidine	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Benzo (a) anthracene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Benzo (a) pyrene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Benzo (ghi) perylene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Benzo (k) Fluoranthene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Benzo(b)Fluoranthene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	bis (2-Chloroethoxy) metha	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	bis (2-Chloroethyl) ether	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	bis (2-chloroisopropyl) ether	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	bis (2-Ethylhexyl) phthalate	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Butyl benzyl phthalate	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Chrysene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Di-n-butyl phthalate	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Di-n-octyl phthalate	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Dibenzo (a,h)anthracene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Diethyl phthalate	ND	ug/L	L	8270C	1	5	23-Dec-11	AE

SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

December 29, 2011

Client: Emerald Environmental
Address: 1621 St. Clair Ave.
Kent, OH 44240

Received: 12/20/2011
Project #: Prudent @ Ravenna Arsenal

Semi-VOC (8270C)

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
001 LLS123	1126325-01	20-Dec-11	Dimethyl phthalate	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Fluoranthene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Fluorene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Hexachlorobenzene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Hexachlorobutadiene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Hexachlorocyclopentadiene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Hexachloroethane	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Indeno (1,2,3-cd) pyrene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Isophorone	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	N-Nitrosodi-n-propylamine	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	N-Nitrosodimethylamine	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	N-Nitrosodiphenylamine	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Naphthalene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Nitrobenzene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	p-Chloro-m-cresol	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Pentachlorophenol	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Phenanthrene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Phenol	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Pyrene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	3,4-Methylphenol	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Carbazole	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Dibenzofuran	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	2-Methyl phenol	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	3-Nitroaniline	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	4-Chloroanilne	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Aniline	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Azobenzene	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Benzoic Acid	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Benzyl Alcohol	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	Pyridine	ND	ug/L	L	8270C	1	5	23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	% 2-Fluorophenol Rec.	57.1		L	8270C	1		23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	% Phenol-d6 Rec.	50.2		L	8270C	1		23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	% Nitrobenzene-d5 Rec.	64.9		L	8270C	1		23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	% 2,4,6-Tribromophenol Re	74.1		L	8270C	1		23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	% 2-Fluorobiphenyl Rec.	72.9		L	8270C	1		23-Dec-11	AE
001 LLS123	1126325-01	20-Dec-11	% p-terphenyl-d14 Rec	72.8		L	8270C	1		23-Dec-11	AE

SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

December 29, 2011

Client: Emerald Environmental
Address: 1621 St. Clair Ave.
Kent, OH 44240

Received: 12/20/2011
Project #: Prudent @ Ravenna Arsenal

VOC(8260B)

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
001 LLS123	1126325-01	20-Dec-11	1,1,1,2-Tetrachloroethane	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	1,1,1-Trichloroethane	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	1,1,2,2-Tetrachloroethane	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	1,1,2-Trichloroethane	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	1,1-Dichloroethane	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	1,1-Dichloroethene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	1,1-Dichloropropene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	1,2,3-Trichlorobenzene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	1,2,3-Trichloropropane	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	1,2,4-Trichlorobenzene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	1,2,4-Trimethylbenzene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	1,2-Dibromo-3-chloropropan	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	1,2-Dibromoethane	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	1,2-Dichlorobenzene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	1,2-Dichloroethane	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	1,2-Dichloropropane	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	1,3,5-Trimethylbenzene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	1,3-Dichlorobenzene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	1,3-Dichloropropane	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	1,4-Dichlorobenzene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	2,2-Dichloropropane	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	2-Chlorotoluene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	4-Chlorotoluene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Benzene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Bromobenzene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Bromochloromethane	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Bromodichloromethane	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Bromoform	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Bromomethane	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Carbon Tetrachloride	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Chlorobenzene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Chloroethane	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Chloroform	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Chloromethane	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	cis-1,2-Dichloroethene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Dibromochloromethane	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Dibromomethane	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Dichlorodifluoromethane	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Ethylbenzene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Hexachlorobutadiene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Isopropylbenzene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS

SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

December 29, 2011

Client: Emerald Environmental
Address: 1621 St. Clair Ave.
Kent, OH 44240

Received: 12/20/2011
Project #: Prudent @ Ravenna Arsenal

VOC(8260B)

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
001 LLS123	1126325-01	20-Dec-11	m,p-Xylene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Methylene Chloride	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	n-Butylbenzene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	n-Propylbenzene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Naphthalene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	o-Xylene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	p-Isopropyltoluene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	sec-Butylbenzene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Styrene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	tert-Butylbenzene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Tetrachloroethene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Toluene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	trans-1,2-Dichloroethene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Trichloroethene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Trichlorofluoromethane	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Vinyl Chloride	ND	ug/L	L	8260B	5	2	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	Cis-1,3-dichloropropene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	trans-1, 3-Dichloropropene	ND	ug/L	L	8260B	5	5	21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	%Dibromofluorometh Rec.	87.0		L	8260B	5		21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	%Toluene-d8 Rec.	100.2		L	8260B	5		21-Dec-11	MS
001 LLS123	1126325-01	20-Dec-11	%4-Bromofluoroben Rec.	96.9		L	8260B	5		21-Dec-11	MS

TCLP Mercury

Client ID#	Lab ID#	Collected	Analyte	Rep Lmt	Result	Units	Matrix	Method	DF	RegLvl	Run	Analyst
002 CC-78	1126325-02	20-Dec-11	TCLP Mercury	0.002	ND	mg/L	L	1311	1	0.2	28-Dec-11	VVK

TCLP Barium

Client ID#	Lab ID#	Collected	Analyte	Rep Lmt	Result	Units	Matrix	Method	DF	RegLvl	Run	Analyst
002 CC-78	1126325-02	20-Dec-11	TCLP Barium	5	ND	mg/L	L	1311	1	100	28-Dec-11	VVK

TCLP Arsenic

Client ID#	Lab ID#	Collected	Analyte	Rep Lmt	Result	Units	Matrix	Method	DF	RegLvl	Run	Analyst
002 CC-78	1126325-02	20-Dec-11	TCLP Arsenic	0.5	ND	mg/L	L	1311	1	5	28-Dec-11	VVK

TCLP Cadmium

Client ID#	Lab ID#	Collected	Analyte	Rep Lmt	Result	Units	Matrix	Method	DF	RegLvl	Run	Analyst
002 CC-78	1126325-02	20-Dec-11	TCLP Cadmium	0.1	ND	mg/L	L	1311	1	1	28-Dec-11	VVK

TCLP Chromium

Client ID#	Lab ID#	Collected	Analyte	Rep Lmt	Result	Units	Matrix	Method	DF	RegLvl	Run	Analyst
002 CC-78	1126325-02	20-Dec-11	TCLP Chromium	0.2	ND	mg/L	L	1311	1	5	28-Dec-11	VVK

Summit Environmental Technologies, Inc.
3310 Win Street
Cuyahoga Falls, Ohio 44223 Tel: 330.253.8211 Fax: 330.253.4489

Analysis Request/Chain of Custody

For Summit Environmental Technologies, Inc. use only

Page 1 of 1 SET No.

Company Name (Please Print): Emerald Environmental	Project Name: Prudent Technologies
Company Address: 1621 St. Clair Ave. Kent, OH 44240	Project Address: 8451 St. Rt. 5 Ravenna, OH 44266
Client Phone No.: 330-677-0785	Report to: Chris Archacki
Client Fax No.: 330-677-1507 Please Fax Results ✓ ☐	PO#: 12-11827 EES
Client Email: carchacki@emerald-environmental.com Please Email Results ✓ ☒	Quote No.
Contact Person: Chris Archacki	
Sampled by: William Mello	Check if Ohio VAP samples ✓ ☐

Analytical Parameters and Methods

Order ID: 1202099 COC

#	Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: S=Solid, L=Liquid, O=Oil SL=Sludge, A=Air, DW=Drinking Water	Preservative	Number of Containers	PCBs
									Please Check Analytical Box ✓
	LLS 1-4,12 #1	1-27-12	1415		✓	S	-	1	✓
	LLS 1-4,12 #2	1-27-12	1425		✓	S	-	1	✓

1202099-01-02

Relinquished by:	Date	Time	Received by:	Date	Time
			Walter Daniel	1/30/12	3:26
Walter Daniel	1/30/12	5:35			

Received in lab by:	Date	Time
Alicia Q	1/30/12	

Rush Requested By: _____ Date Must be approved by lab manager

Notes/Comments: S

White and yellow pages should accompany samples to the laboratory. The client retains the pink page.

59909

SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

LABORATORY REPORT

Client
Emerald Environmental
1621 St. Clair Ave.
Kent, OH 44240

Order Number
1202099

Project Number
Prudent Technologies

Issued
Tuesday, February 07, 2012

Total Number of Pages
4 (excluding C.O.C. and cooler receipt form)

Approved By : _____
QA Manager

NELAC Accreditation #E87688

Sample Summary

Client: Emerald Environmental
Order Number: 1202099

Laboratory ID	Client ID	Matrix	Sampling Date
1202099-01	LLS 1-4,12 #1	Solid	1/27/2012
1202099-02	LLS 1-4,12 #2	Solid	1/27/2012

Report Narrative

Client: Emerald Environmental

Order Number: 1202099

Solid sample results are reported on a wet weight basis except as noted.
No problems were encountered during analysis of this order number, except as noted.

Data Qualifiers:
B = Analyte found in the method blank
J = Estimated concentration of analyte between MDL (LOD) and Reporting Limit (LOQ)
C = Analyte has been confirmed by another instrument or method
E = Analyte exceeds the upper limit of the calibration curve.
D = Sample or extract was analyzed at a higher dilution
X = User defined data qualifier.
S = Surrogate out of control limits
U = Undetected
a = Not Accredited by NELAC

ND = Non Detected at LOQ
DF = Dilution Factor

Limit Of Quantitation (LOQ) = Laboratory Reporting Limit (not adjusted for dilution factor)
Limit Of Detection (LOD) = Laboratory Detection Limit

Matrices:
A = Air
C = Cream
DW = Drinking Water
L = Liquid
O = Oil
SL = Sludge
SO = Soil
S = Solid
T = Tablet
TC = TCLP Extract
WW = Waste Water
W = Wipe

Estimated uncertainty values are available upon request.

The test results meet the requirements of the NELAC standard, except where noted. The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the client. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the client for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

February 07, 2012

Client: Emerald Environmental
Address: 1621 St. Clair Ave.
Kent. OH 44240

Received: 1/30/2012
Project #: Prudent Technologies

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
LLS 1-4,12 #1	1202099-01	27-Jan-12	PCBs	ND	mg/kg	S	8082	1	0.2	06-Feb-12	AE

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
LLS 1-4,12 #2	1202099-02	27-Jan-12	PCBs	0.43	mg/kg	S	8082	1	0.2	06-Feb-12	AE

"Analytical Integrity" · EPA Certified · NELAP Certified
3310 Win Street · Cuyahoga Falls, Ohio 44223 • Phone: 330-253-8211 · Fax: 330-253-4489
Web Site: www.settek.com

VEXOR Technology, Inc.
955 West Smith Road
Medina, Ohio 44256
Phone: 330-721-9773
FAX: 330-721-9438
EPA ID# OHD 077772895

MATERIAL CHARACTERIZATION

www.vexortechnology.com

Approval # 19873
Sample # _____
Sales Rep _____
Date Submitted _____

Generator RAVENNA ARMY AMMUNITIONS PLANT
Site Address 8451 STATE RT. 5
City RAVENNA State OH ZIP 44266
Phone 330 358 3005 Fax 330 358 2021
EPA ID# OH5210020736 SIC Code _____
Technical Contact JIM McGEE
Title _____ e-mail jim.d.mcgee@us.army.mil

Bill To Name EMERALD ENVIRONMENTAL
Site Address 1621 ST. CLAIR AVE
City KENT State OH ZIP 44240
Phone 330 677 0795 Fax 330 677 1547
Business Contact CHRIS ARCHACKI
Title _____ e-mail carchacki@emerald-environmental.com

MATERIAL DESCRIPTION

Name and Description of Material: SOIL CUTTINGS (3 DRUMS)
Process Generating Material: PRUDENT ACTIVITIES ON SITE U.S. EPA Hazardous Waste: ___ Yes X No
Proper DOT shipping name: NON DOT REGULATED MATERIAL
Method of Shipment: ☐ Bulk ☒ Drum ☐ Tote ☐ Cubic Yd Box ☐ Other/Explain: _____
Estimated Annual Volume: _____ Cubic Yards _____ Tons _____ Gallons 10 Drums METAL Container material (metal, plastic, etc.)
Frequency: ☒ One Time Only ☐ Daily ☐ Weekly ☐ Monthly ☐ Yearly ☐ Other- explain 100 lbs Approx drum weight
Special Handling Instructions: _____
Preferred Disposal Method: ☒ Landfill ☐ Waste to Energy ☐ Recycling ☐ VEF ☐ Other _____

MATERIAL PROPERTIES AT 78°F

a) Physical State: ☒ Solid ☐ Semi-solid ☐ Powder ☐ Liquid ☐ Phases
b) Reactivity: ☐ Water reactive ☐ Acid Reactive ☐ Alkaline Reactive ☐ Oxidizer ☐ Autosetting ☒ none
c) Flash Point, °F: ☐ ≤ 72 ☐ >72-100 ☐ >100-140 ☐ >140-200 ☒ >200 ☒ NA
d) S. G./Density 1.0 e) pH: ☐ ≤ 2 ☐ >2 – 6 ☒ >6 – 9 ☐ >9 – <12.5 ☐ ≥12.5 ☐ NA
f) Odor: ☒ None ☐ Mild ☐ Strong : Describe: _____ g) Color _____
h) Total Organic Halogen (TOX) ☒ 0 ppm ☐ >1000 ppm* If this material is considered a "USED OIL" and is to be managed as a USED OIL, please complete the "USED OIL" ADDENDUM and attach to this profile.
i) PCB Content: ☒ 0 ppm ☐ 1-49 ppm* ☐ equal to or > 50 ppm *Supporting analysis and documentation required.

MATERIAL COMPOSITION: List all components, add up to 100%.

Constituent	Range % (wt-vol)	
	Min	Max
SOIL CUTTINGS		100
A combined total should equal 100%		

Above is based on: Generator Knowledge ☒ Analytical Data ☒ MSDS ☐
Please attach analysis, TCLP information and appropriate MSDS sheets.
SAMPLE SUBMITTED WITH THIS PROFILE: Yes ___ No X

CHEMICAL COMPOSITION:

Constituent	Range %	
	Min	Max
Sulfur	NA	NA
Chlorine		
Bromine		
Fluorine		
Nitrogen		
Oxygen		
Carbon		
Ash		
Btu's		
Biomass		

Metals (other than RCRA)

Metal	ppm	Metal	ppm	Metal	ppm	Metal	ppm
Thallium	BRL	Antimony	BRL	Beryllium	BRL	Cobalt	BRL
Copper		Nickel		Vanadium		Tin	
Zinc		Iron		Manganese		Magnesium	
Molybdenum		Palladium					

MATERIAL CHARACTERIZATION

Approval #

RCRA CONTAMINANTS: ☐TCLP ☐TOTAL ☒NONE IN THIS SECTION

EPA #	NAME		REGULATORY LEVEL	ACTUAL	EPA #	NAME		REGULATORY LEVEL	ACTUAL
D004	Arsenic	☐	>5.0		D024	m-Cresol	☐	>200.0	
D005	Barium	☐	>100.0		D025	p-Cresol	☐	>200.0	
D006	Cadmium	☐	>1.0		D026	Cresol (total)	☐	>200.0	
D007	Chromium	☐	>5.0		D027	1,4-Dichlorobenzene	☐	>7.5	
D008	Lead	☐	>5.0		D028	1,2-Dichloroethane	☐	>0.5	
D009	Mercury	☐	>0.2		D029	1,2-Dichloroethylene	☐	>.13	
D010	Selenium	☐	>1.0		D030	2,4-Dinitrotoluene	☐	>0.008	
D011	Silver	☐	>5.0		D031	Heptachlor	☐	>0.13	
D012	Endrin	☐	>0.02		D032	Hexachlorobenzene	☐	>0.5	
D013	Lindane	☐	>0.4		D033	Hexachloro-1,3-butadiene	☐	>0.5	
D014	Methoxychlor	☐	>10.0		D034	Hexachloroethane	☐	>3.0	
D015	Toxaphene	☐	>0.05		D035	Methyl Ethyl Ketone	☐	>200.0	
D016	2,4-D	☐	>10.0		D036	Nitrobenzene	☐	>2.0	
D017	2,4,5-TP (Silvex)	☐	>1.0		D037	Pentachlorophenol	☐	>100.0	
D018	Benzene	☐	>0.5		D038	Pyridine	☐	>100.0	
D019	Carbon Tetrachloride	☐	>0.5		D039	Tetrachloroethylene	☐	>0.7	
D020	Chlordane	☐	>0.03		D040	Trichloroethylene	☐	>0.5	
D021	Chlorobenzene	☐	>100.0		D041	2,4,5-Trichlorophenol	☐	>400.0	
D022	Chloroform	☐	>6.0		D042	2,4,6-Trichlorophenol	☐	>2.0	
D023	o-Cresol	☐	>200.0		D043	Vinyl Chloride	☐	>0.2	

GENERATOR CERTIFICATION

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true and accurate description of the material being offered for disposal.
Samples of this material submitted to VEXOR are representative of the material described in this profile. I further certify that by utilizing this profile, neither I nor any other employee of the company will deliver for treatment, processing or recycling or attempt to deliver for same any material that is classified as a hazardous waste, medical or infectious waste or any other material that this facility is prohibited from accepting by law.

Authorized Representative Name (Printed) Mark Patterson, Company Ravenna AAP

Authorized Representative Signature: Mark Patte

Title: BEC Date: 3/1/12

For VEXOR Use Only

Reviewed by: VMC Date: 03/02/12 Second review: 3/2/12 Date:

Approved for treatment (please check and initial) ✓ Special Handling (if yes, make process directions in notes):

VEXOR Technology, Inc.
955 West Smith Road
Medina, Ohio 44256
Phone: 330-721-9773
FAX: 330-721-9438
EPA ID# OHD 077772895

MATERIAL CHARACTERIZATION

www.vexortechnology.com

Approval # 19870
Sample #
Sales Rep
Date Submitted

Generator RAVENNA ARMY AMMUNITIONS PLANT
Site Address 8451 STATE RT. 5
City RAVENNA State OH ZIP 44266
Phone 330 358 3005 Fax 330 358 2021
EPA ID# 0452100020736 SIC Code
Technical Contact JIM McGEE
Title e-mail jim.dawgee@us.army.mil

Bill To Name EMERALD ENVIRONMENTAL
Site Address 1621 ST. CLAIR AVE
City KENT State OH ZIP 44240
Phone 330 677 0185 Fax 330 677 1567
Business Contact CHRIS ARCHACKI
Title e-mail carchacki@emerald-environmental.com

MATERIAL DESCRIPTION

Name and Description of Material: GEOPROBE LINERS, PPE, RAGS (8 DRUMS)
Process Generating Material: PRUDENT ACTIVITIES ON SITE U.S. EPA Hazardous Waste: ___Yes X No
Proper DOT shipping name: NON DOT REGULATED MATERIAL
Method of Shipment: ☐ Bulk ☒ Drum ☐ Tote ☐ Cubic Yd Box ☐ Other/Explain:
Estimated Annual Volume: ___ Cubic Yards ___ Tons ___ Gallons 10 Drums METAL Container material (metal, plastic, etc.)
Frequency: ☒ One Time Only ☐ Daily ☐ Weekly ☐ Monthly ☐ Yearly ☐ Other- explain 100 lbs Approx drum weight
Special Handling Instructions:
Preferred Disposal Method: ☒ Landfill ☐ Waste to Energy ☐ Recycling ☐ VEF ☐ Other

MATERIAL PROPERTIES AT 78°F

a) Physical State: ☒ Solid ☐ Semi-solid ☐ Powder ☐ Liquid ☐ Phases
b) Reactivity: ☐ Water reactive ☐ Acid Reactive ☐ Alkaline Reactive ☐ Oxidizer ☐ Autosetting ☒ none
c) Flash Point, °F: ☐ ≤72 ☐ >72-100 ☐ >100-140 ☐ >140-200 ☒ >200 ☒ NA
d) S. G./Density 1.0 e) pH: ☐ ≤2 ☐ >2-6 ☒ >6-9 ☐ >9-<12.5 ☐ ≥12.5 ☐ NA
f) Odor: ☒ None ☐ Mild ☐ Strong : Describe: g) Color
h) Total Organic Halogen (TOX) ☒ 0 ppm ☐ >1000 ppm* If this material is considered a "USED OIL" and is to be managed as a USED OIL, please complete the "USED OIL" ADDENDUM and attach to this profile.
i) PCB Content: ☒ 0 ppm ☐ 1-49 ppm* ☐ equal to or > 50 ppm *Supporting analysis and documentation required.

MATERIAL COMPOSITION: List all components, add up to 100%.

Constituent	Range % (wt-vol)	
	Min	Max
TYVEKS, PVC & LATEX GLOVES	30	60
GEOPROBE LINERS	50	90
RAGS	5	15
A combined total should equal 100%		

Above is based on: Generator Knowledge ☒ Analytical Data ☒ MSDS ☐
Please attach analysis, TCLP information and appropriate MSDS sheets.
SAMPLE SUBMITTED WITH THIS PROFILE: Yes ___ No X

CHEMICAL COMPOSITION:

Constituent	Range %	
	Min	Max
Sulfur	NA	NA
Chlorine		
Bromine		
Fluorine		
Nitrogen		
Oxygen		
Carbon		
Ash		
Btu's		
Biomass		

Metals (other than RCRA)

Metal	ppm	Metal	ppm	Metal	ppm	Metal	ppm
Thallium	BRL	Antimony	BRL	Beryllium	BRL	Cobalt	BRL
Copper		Nickel		Vanadium		Tin	
Zinc		Iron		Manganese		Magnesium	
Molybdenum		Palladium					

MATERIAL CHARACTERIZATION

Approval # _____

RCRA CONTAMINANTS: ☐ TCLP ☐ TOTAL ☒ NONE IN THIS SECTION

EPA #	NAME		REGULATORY LEVEL	ACTUAL	EPA #	NAME		REGULATORY LEVEL	ACTUAL
D004	Arsenic	☐	>5.0		D024	m-Cresol	☐	>200.0	
D005	Barium	☐	>100.0		D025	p-Cresol	☐	>200.0	
D006	Cadmium	☐	>1.0		D026	Cresol (total)	☐	>200.0	
D007	Chromium	☐	>5.0		D027	1,4-Dichlorobenzene	☐	>7.5	
D008	Lead	☐	>5.0		D028	1,2-Dichloroethane	☐	>0.5	
D009	Mercury	☐	>0.2		D029	1,2-Dichloroethylene	☐	>.13	
D010	Selenium	☐	>1.0		D030	2,4-Dinitrotoluene	☐	>0.008	
D011	Silver	☐	>5.0		D031	Heptachlor	☐	>0.13	
D012	Endrin	☐	>0.02		D032	Hexachlorobenzene	☐	>0.5	
D013	Lindane	☐	>0.4		D033	Hexachloro-1,3-butadiene	☐	>0.5	
D014	Methoxychlor	☐	>10.0		D034	Hexachloroethane	☐	>3.0	
D015	Toxaphene	☐	>0.05		D035	Methyl Ethyl Ketone	☐	>200.0	
D016	2,4-D	☐	>10.0		D036	Nitrobenzene	☐	>2.0	
D017	2,4,5-TP (Silvex)	☐	>1.0		D037	Petachlorophenol	☐	>100.0	
D018	Benzene	☐	>0.5		D038	Pyridine	☐	>100.0	
D019	Carbon Tetrchloride	☐	>0.5		D039	Tetrchloroethylene	☐	>0.7	
D020	Chlordane	☐	>0.03		D040	Trichloroethylene	☐	>0.5	
D021	Chlorobenzene	☐	>100.0		D041	2,4,5-Trichlorophenol	☐	>400.0	
D022	Chloroform	☐	>6.0		D042	2,4,6-Trichlorophenol	☐	>2.0	
D023	o-Cresol	☐	>200.0		D043	Vinyl Chloride	☐	>0.2	

GENERATOR CERTIFICATION

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true and accurate description of the material being offered for disposal.
Samples of this material submitted to VEXOR are representative of the material described in this profile. I further certify that by utilizing this profile, neither I nor any other employee of the company will deliver for treatment, processing or recycling or attempt to deliver for same any material that is classified as a hazardous waste, medical or infectious waste or any other material that this facility is prohibited from accepting by law.

Authorized Representative Name (Printed): Mark Patterson, Company: Ravenna AAP

Authorized Representative Signature: Mark Patterson

Title: BEC Date: 3/1/12

For VEXOR Use Only

Reviewed by: _____ Date: 03/02/12 Second review: _____ 3/2/12 Date:

Approved for treatment (please check and initial) _____ ✓ Special Handling (if yes, make process directions in notes):

VEXOR Technology, Inc.
955 West Smith Road
Medina, Ohio 44256
Phone: 330-721-9773
FAX: 330-721-9438
EPA ID# OHD 077772895

MATERIAL CHARACTERIZATION

www.vexortechnology.com

Approval # 19714
Sample #
Sales Rep
Date Submitted

Generator RAVENNA ARMY AMMUNITIONS PLANT	Bill To Name EMERALD ENVIRONMENTAL
Site Address 8451 STATE RT. 5	Site Address 1621 ST. CLAIR AVE
City RAVENNA State OH ZIP 44266	City KENT State OH ZIP 44240
Phone 330 358 3005 Fax 330 358 2021	Phone 330 677 1065 Fax 330 677 1567
EPA ID# OH5210020736 SIC Code	Business Contact CHRIS ARCHACKI
Technical Contact TIM McGEE	Title e-mail
Title e-mail jim.dunigee@us.army.mil	carchacki@emerald-environmental.com

MATERIAL DESCRIPTION

Name and Description of Material: NON HAZARDOUS LIQUID (DECON SOLUTION) (2 DRUM)
Process Generating Material: PRUDENT ACTIVITIES ON SITE DECONTAMINATION U.S. EPA Hazardous Waste: ___Yes X No
Proper DOT shipping name: NON DOT REGULATED MATERIAL
Method of Shipment: ☐ Bulk ☒ Drum ☐ Tote ☐ Cubic Yd Box ☐ Other/Explain:
Estimated Annual Volume: ___ Cubic Yards ___ Tons ___ Gallons 10 Drums METAL Container material (metal, plastic, etc.)
Frequency: ☒ One Time Only ☐ Daily ☐ Weekly ☐ Monthly ☐ Yearly ☐ Other- explain 100 lbs Approx drum weight
Special Handling Instructions:
Preferred Disposal Method: ☒ Landfill ☐ Waste to Energy ☐ Recycling ☐ VEF ☐ Other

MATERIAL PROPERTIES AT 78°F

a) Physical State: ☐ Solid ☐ Semi-solid ☐ Powder ☒ Liquid ☐ Phases
b) Reactivity: ☐ Water reactive ☐ Acid Reactive ☐ Alkaline Reactive ☐ Oxidizer ☐ Autosetting ☒ none
c) Flash Point, °F: ☐ ≤ 72 ☐ >72-100 ☐ >100-140 ☐ >140-200 ☒ >200 ☒ NA
d) S. G./Density 1.0 e) pH: ☐ ≤ 2 ☐ >2 – 6 ☒ >6 – 9 ☐ >9 – <12.5 ☐ ≥12.5 ☐ NA
f) Odor: ☒ None ☐ Mild ☐ Strong : Describe: g) Color
h) Total Organic Halogen (TOX) ☒ 0 ppm ☐ >1000 ppm* If this material is considered a "USED OIL" and is to be managed as a USED OIL, please complete the "USED OIL" ADDENDUM and attach to this profile.
i) PCB Content: ☒ 0 ppm ☐ 1-49 ppm* ☐ equal to or > 50 ppm *Supporting analysis and documentation required.

MATERIAL COMPOSITION: List all components, add up to 100%.

Constituent	Range % (wt-vol) Min	Max
WATER	95	99
ALCONOX	5	10
METHANOL	.1	1
A combined total should equal 100%		

Above is based on: Generator Knowledge ☒ Analytical Data ☒ MSDS ☐
Please attach analysis, TCLP information and appropriate MSDS sheets.
SAMPLE SUBMITTED WITH THIS PROFILE: Yes___ No X

CHEMICAL COMPOSITION:

Constituent	Range % Min	Max
Sulfur	NA	NA
Chlorine		
Bromine		
Fluorine*		
Nitrogen		
Oxygen		
Carbon		
Ash		
Btu's		
Biomass		

Metals (other than RCRA)

Metal	ppm	Metal	ppm	Metal	ppm	Metal	ppm
Thallium	BRL	Antimony	BRL	Beryllium	BRL	Cobalt	BRL
Copper		Nickel		Vanadium		Tin	
Zinc		Iron		Manganese		Magnesium	
Molybdenum		Palladium					

MATERIAL CHARACTERIZATION

Approval #: _____

RCRA CONTAMINANTS: ☐ TCLP ☐ TOTAL ☒ NONE IN THIS SECTION

EPA #	NAME		REGULATORY LEVEL	ACTUAL	EPA #	NAME		REGULATORY LEVEL	ACTUAL
D004	Arsenic	☐	>5.0		D024	m-Cresol	☐	>200.0	
D005	Barium	☐	>100.0		D025	p-Cresol	☐	>200.0	
D006	Cadmium	☐	>1.0		D026	Cresol (total)	☐	>200.0	
D007	Chromium	☐	>5.0		D027	1,4-Dichlorobenzene	☐	>7.5	
D008	Lead	☐	>5.0		D028	1,2-Dichloroethane	☐	>0.5	
D009	Mercury	☐	>0.2		D029	1,2-Dichloroethylene	☐	>.13	
D010	Selenium	☐	>1.0		D030	2,4-Dinitrotoluene	☐	>0.008	
D011	Silver	☐	>5.0		D031	Heptachlor	☐	>0.13	
D012	Endrin	☐	>0.02		D032	Hexachlorobenzene	☐	>0.5	
D013	Lindane	☐	>0.4		D033	Hexachloro-1,3-butadiene	☐	>0.5	
D014	Methoxychlor	☐	>10.0		D034	Hexachloroethane	☐	>3.0	
D015	Toxaphene	☐	>0.05		D035	Methyl Ethyl Ketone	☐	>200.0	
D016	2,4-D	☐	>10.0		D036	Nitrobenzene	☐	>2.0	
D017	2,4,5-TP (Silvex)	☐	>1.0		D037	Petachlorophenol	☐	>100.0	
D018	Benzene	☐	>0.5		D038	Pyridine	☐	>100.0	
D019	Carbon Tetrachloride	☐	>0.5		D039	Tetrachloroethylene	☐	>0.7	
D020	Chlordane	☐	>0.03		D040	Trichloroethylene	☐	>0.5	
D021	Chlorobenzene	☐	>100.0		D041	2,4,5-Trichlorophenol	☐	>400.0	
D022	Chloroform	☐	>6.0		D042	2,4,6-Trichlorophenol	☐	>2.0	
D023	o-Cresol	☐	>200.0		D043	Vinyl Chloride	☐	>0.2	

GENERATOR CERTIFICATION

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true and accurate description of the material being offered for disposal.
Samples of this material submitted to VEXOR are representative of the material described in this profile. I further certify that by utilizing this profile, neither I nor any other employee of the company will deliver for treatment, processing or recycling or attempt to deliver for same any material that is classified as a hazardous waste, medical or infectious waste or any other material that this facility is prohibited from accepting by law.

Authorized Representative Name (Printed): Mark Patterson Company: Ravenna AAP

Authorized Representative Signature: Mark Patterson

Title: BEC Date: 3/1/12

For VEXOR Use Only

Reviewed by: _____ Date: 03/01/12 Second review: 3/2/12 Date:

Approved for treatment (please check and initial) ✓ Special Handling (if yes, make process directions in notes): _____

Appendix K – Comment Response Table

DRAFT CHARACTERIZATION SAMPLING REPORT OF SURFACE AND SUBSURFACE ISM AT LOAD LINES 1, 2, 3, 4, AND 12, AT THE RAVENNA ARMY AMMUNITION PLANT, RAVENNA, OHIO
COMMENT RESPONSE TABLE
MARCH 19, 2012

Cmt. No.	Page/Line Number	New Page or Sheet	Comment	Recommendation	Response
Ohio EPA (Andrew Kocher)					
O-1	Page IX, Line 22, Page 1-1,Line 25	Page IX, Page 1-1	Typo – "RCAAP."	Please revise the text.	Will correct
O-2	Page 3-2, Line 42	Page 3-25 Page 3-26	Please add a section describing how Prudent Inc. and the laboratory processed the samples.	Please add a "Sample Processing" section or add text in Section 3 describing the sample processing.	Will move material on current Page 3-2, Lines 33 - 41 to a new section "*3.4 LABORATORY PROCEDURES*" and change current Section 3.4 to "*3.5 SAMPLING CHRONOLOGY*". Text for Section 3.4 is provided at the end of these responses. Certain details of the laboratories' procedures are proprietary and will only be discussed in general terms.
O-3	Page 3-20, Table 3-1	Page 3-21	The table states the reason for sampling. Please add that the reason for sampling LL3SB-412 and LL3SB-413 was	Please revise the text accordingly.	Will add the reason for sampling was because the levels of PCBs were above the CUGs in previous

			because PCBs were elevated above the CUGs in previous sampling.		sampling and Prudent wanted to bound the area of contamination
O-4	Page 6-1, Line 31	Pages 6-2,3 Appendix J	Please add a section describing the Field Change Request, dated 1/12/12, concerning the sampling of the drums. Also, add some of the disposal locations from the "Characterization of the IDW Report."	Please add this section. If available, add the results of the drum samples, also.	Will add discussion of the subject field change, along with the related additional sampling and analyses similar to the February 8, 2012 IDW Disposal Report.
O-5	Page 8-1, Lines 3-7	Page 8-1, Appendix I	The text references the Addendum received on January 6.	Please revise Sections 8.1 and 8.2 and reference the Addendum # and attach the Addendum to the final Report (may have to update the Table of Contents, also).	Discussion needed. Would like to revise the sections per the January 6, 2012 Addendum.
O-6	Page 10-1, Lines 33-34	Page 10-1,	The text states that a discussion of any problems will be provided in an addendum.	Please include this addendum in the final report. Also, please do not submit the final report until all addenda and attachments are complete and with the final report.	Discussion needed. Would like to revise the sections per the January 6, 2012 Addendum See response to Cmt. No. 5
O-7	Page 10-1, Lines 33-34	Page 10-1,	The text states that a discussion of any problems will be provided in an addendum.	Please include this addendum in the final report. Also, please do not submit the final report until all addenda and attachments are complete and with the final report.	See response to Cmt. No. 5

O-8	Pesticide Issue	Page 8-1,	After reviewing the initial Pesticide analysis, dated October 9, 2011, Ohio EPA agrees with Samir A. Mansy that the pesticide analysis from Test America should be rejected. There were major discrepancies of pesticides and concentrations found between Test America and CT Labs. The reasons stated in the Validation Report of high dilutions, which elevated detection reporting limits, the discrepancies between the results from the primary and confirmation column of Test America is an indication of instrumental problems. The results from the samples re-extracted and re-analyzed in December 2011 did provide lower reporting limits. There were still discrepancies between Test America and CT Laboratories. These samples were re-extracted over four months from sample collection exceeding holding times and	This comment will need further discussion. Ohio EPA is inclined to have the areas where we only have rejected Test America pesticide results resampled and analyzed.	Fortunately, there were QA samples collected and analyzed at all locations where primary and QC pesticide analyses were performed. In lieu of there being no detections of pesticides from the QA samples above the selected clean-up goals, Prudent believes the evaluation of the potential for pesticide contamination has been adequately addressed.

			viewed as qualitative at best. The re-analyzed results should not be used to determine the presence or absence of pesticides and their concentrations.		
O-9	General	N/A	Since the Army/NGB has not finalized the PMP, there is no final defined land use and restrictions to ensure the property assumptions are appropriate or will remain appropriate through restrictions in the future. Therefore, please be advised that if this document is not consistent with the final, approved PMP, this report will need to be revised accordingly.	None needed.	Will revise accordingly if necessary.

3.4 LABORATORY PROCEDURES

3.4.1 Laboratory Sample Preparation

Both laboratories began the laboratory sample preparation by air drying the entire ISM sample, and then sieving the entire sample through a #10 sieve.

At the primary laboratory, the next step was disaggregation of the entire sample by use of a rotary hammer soil disaggregator. Essentially the soil clumps were broken up. Representative portions of the disaggregated matrix were then selected and subjected to the prescribed set of laboratory analyses.

At the quality assurance laboratory, a puck mill was utilized to mill the entire air-dried sample. Five cycles of (1 minute of milling and then 1 minute of cool down) were utilized. This process reduced the matrix to a powdery consistency. Representative portions of the disaggregated matrix were then selected and subjected to the prescribed set of laboratory analyses.

3.4.2 Analytical Procedures

The laboratory analyses associated with the characterization sampling were tailored to the data quality objectives of the sampling. Thus where there was concern of possible polycyclic aromatic hydrocarbon (PAH) contamination, only laboratory analysis, EPA SW-846 Method 8310 for PAHs was conducted. The reporting limits of this procedure are lower than those associated with EPA SW-846 Method 8270 (B). At locations where only explosives were of concern, US EPA Method 8330 was performed as per the current FWSAP. As per the FWSAP, a set of triplicate samples with full suite analyses was collected at each of the five load lines and the potential borrow source, and MS/MSD samples and equipment rinsate samples were collected per the Facility-Wide Quality Assurance Project Plan (FWQAPP, SAIC, 2011).

Appendix L – Automated Data Review (ADR)

Prudent Technologies, Inc
3303 Trinity Road
Louisville, KY 40206
ATTN: John Jent, MS, PE

Tuesday, March 26, 2013

SUBJECT: Ravenna LL1-4, 12

Dear John Jent, MS, PE

Enclosed are all pertinent ADR reports for the laboratory electronic data deliverables (EDDs) and test categories listed below.

SDG	Fraction
240-1585-1	**Inorganics** (300.0)
240-1585-2	**Metals** (6020, 7196A, 7471A, 7470A)
240-1599-1	**Semi-volatiles** (8081A, 8082, 8270C, 8330, 8330 MODIFIED)
240-1619-1	**Volatiles** (8260B)
240-1619-2	
240-1620-1	
240-1650-1	
240-1653-1	
240-1728-1	

The following deliverables are submitted under this report.

SDG Sample Summary
ADR Qualifier Summary
ADR Outlier Reports

Data review was performed in accordance with the following documents:

QSM v. 4

Please feel free to contact us if you have any questions.

Sincerely,

Samir Mansy

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA SAC**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Lab Reporting Batch: 240-1585-1						
Method: 300.0						
LL4SS416M0001/0002SO	240-1585-6	SO	N	Gen Prep	6/26/2011 2:00:00 PM	S2AVE
LL4SS-417M-0001-SO	240-1585-7	SO	N	Gen Prep	6/26/2011 2:06:00 PM	S2AVE
Method: 6020						
LL4SS416M0001/0002SO	240-1585-6	SO	N	3050B	6/26/2011 2:00:00 PM	S2AVE
LL4SS416M0001/0002SOMS	240-1585-6MS	SO	MS	3050B	6/26/2011 2:00:00 PM	S2AVE
LL4SS416M0001/0002SOMSD	240-1585-6MSD	SO	MSD	3050B	6/26/2011 2:00:00 PM	S2AVE
LL4SS-417M-0001-SO	240-1585-7	SO	N	3050B	6/26/2011 2:06:00 PM	S2AVE
Method: 7196A						
LL4SS416M0001/0002SO	240-1585-6	SO	N	Gen Prep	6/26/2011 2:00:00 PM	S2AVE
LL4SS-417M-0001-SO	240-1585-7	SO	N	Gen Prep	6/26/2011 2:06:00 PM	S2AVE
Method: 7471A						
LL4SS416M0001/0002SO	240-1585-6	SO	N	7471A	6/26/2011 2:00:00 PM	S2AVE
LL4SS416M0001/0002SOMS	240-1585-6MS	SO	MS	7471A	6/26/2011 2:00:00 PM	S2AVE
LL4SS416M0001/0002SOMSD	240-1585-6MSD	SO	MSD	7471A	6/26/2011 2:00:00 PM	S2AVE
LL4SS-417M-0001-SO	240-1585-7	SO	N	7471A	6/26/2011 2:06:00 PM	S2AVE
Method: 8081A						
LL4SS416M0001/0002SO	240-1585-6	SO	N	3540C	6/26/2011 2:00:00 PM	S2AVE
LL4SS416M0001/0002SOMS	240-1585-6MS	SO	MS	3540C	6/26/2011 2:00:00 PM	S2AVE
LL4SS416M0001/0002SOMSD	240-1585-6MSD	SO	MSD	3540C	6/26/2011 2:00:00 PM	S2AVE
LL4SS-417M-0001-SO	240-1585-7	SO	N	3540C	6/26/2011 2:06:00 PM	S2AVE
Method: 8082						
LL4SS416M0001/0002SO	240-1585-6	SO	N	3540C	6/26/2011 2:00:00 PM	S2AVE
LL4SS416M0001/0002SOMS	240-1585-6MS	SO	MS	3540C	6/26/2011 2:00:00 PM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA SAC**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method		Collection Date	Validation Code
Method: 8082							
LL4SS416M0001/0002SOMSD	240-1585-6MSD	SO	MSD	3540C		6/26/2011 2:00:00 PM	S2AVE
LL4SS-417M-0001-SO	240-1585-7	SO	N	3540C		6/26/2011 2:06:00 PM	S2AVE
Method: 8260B							
LL4SS416V0001/0002SO	240-1585-8	SO	N		5035	7/7/2011 3:43:00 PM	S2AVE
LL4SS416V0001/0002SOMS	240-1585-8MS	SO	MS		5035	7/7/2011 3:43:00 PM	S2AVE
LL4SS-417V-0001-SO	240-1585-9	SO	N		5035	7/7/2011 3:43:00 PM	S2AVE
Method: 8270C							
L12SS-303M-0001-SO	240-1585-12	SO	N	3540C		6/26/2011 3:50:00 PM	S2AVE
L12SS304M0001/0002SO	240-1585-13	SO	N	3540C		6/26/2011 4:25:00 PM	S2AVE
L12SS304M0001/0002SOMS	240-1585-13MS	SO	MS	3540C		6/26/2011 4:25:00 PM	S2AVE
L12SS304M0001/0002SOMSD	240-1585-13MSD	SO	MSD	3540C		6/26/2011 4:25:00 PM	S2AVE
L12SS-305M-0001-SO	240-1585-11	SO	N	3540C		6/26/2011 3:30:00 PM	S2AVE
L12SS-306M-0001-SO	240-1585-10	SO	N	3540C		6/26/2011 3:20:00 PM	S2AVE
LL4SB-421M-0001-SO	240-1585-5	SO	N	3540C		6/26/2011 10:30:00 AM	S2AVE
LL4SS-412M-0001-SO	240-1585-1	SO	N	3540C		6/26/2011 11:20:00 AM	S2AVE
LL4SS414M0001/0002SO	240-1585-2	SO	N	3540C		6/26/2011 12:00:00 PM	S2AVE
LL4SS414M0001/0002SOMS	240-1585-2MS	SO	MS	3540C		6/26/2011 12:00:00 PM	S2AVE
LL4SS414M0001/0002SOMSD	240-1585-2MSD	SO	MSD	3540C		6/26/2011 12:00:00 PM	S2AVE
LL4SS416M0001/0002SO	240-1585-6	SO	N	3540C		6/26/2011 2:00:00 PM	S2AVE
LL4SS416M0001/0002SOMS	240-1585-6MS	SO	MS	3540C		6/26/2011 2:00:00 PM	S2AVE
LL4SS416M0001/0002SOMSD	240-1585-6MSD	SO	MSD	3540C		6/26/2011 2:00:00 PM	S2AVE
LL4SS-417M-0001-SO	240-1585-7	SO	N	3540C		6/26/2011 2:06:00 PM	S2AVE
LL4SS-419M-0001-SO	240-1585-3	SO	N	3540C		6/26/2011 9:15:00 AM	S2AVE
LL4SS-420M-0001-SO	240-1585-4	SO	N	3540C		6/26/2011 10:30:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA SAC**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Method: 8330						
LL4SS416M0001/0002SO	240-1585-6	SO	N	8330	6/26/2011 2:00:00 PM	S2AVE
LL4SS416M0001/0002SOMS	240-1585-6MS	SO	MS	8330	6/26/2011 2:00:00 PM	S2AVE
LL4SS416M0001/0002SOMSD	240-1585-6MSD	SO	MSD	8330	6/26/2011 2:00:00 PM	S2AVE
LL4SS-417M-0001-SO	240-1585-7	SO	N	8330	6/26/2011 2:06:00 PM	S2AVE
Method: 8330 MODIFIED						
LL4SS416M0001/0002SO	240-1585-6	SO	N	3550A	6/26/2011 2:00:00 PM	S2AVE
LL4SS416M0001/0002SOMS	240-1585-6MS	SO	MS	3550A	6/26/2011 2:00:00 PM	S2AVE
LL4SS416M0001/0002SOMSD	240-1585-6MSD	SO	MSD	3550A	6/26/2011 2:00:00 PM	S2AVE
LL4SS-417M-0001-SO	240-1585-7	SO	N	3550A	6/26/2011 2:06:00 PM	S2AVE

Validation Label Legend

Label Code	Label Decription	EPA Level
S1VE	Stage_1_Validation_Electronic	N/A
S1VM	Stage_1_Validation_Manual	N/A
S1VEM	Stage_1_Validation_Electronic_and_Manual	N/A
S2AVE	Stage_2A_Validation_Electronic	Level 3 w/o calibration
S2AVM	Stage_2A_Validation_Manual	Level 3 w/o calibration
S2AVEM	Stage_2A_Validation_Electronic_and_Manual	Level 3 w/o calibration
S2BVE	Stage_2B_Validation_Electronic	Level 3 with
S2BVM	Stage_2B_Validation_Manual	Level 3 with
S2BVEM	Stage_2B_Validation_Electronic_and_Manual	Level 3 with
S3VE	Stage_3_Validation_Electronic	Level 4
S3VM	Stage_3_Validation_Manual	Level 4
S3VEM	Stage_3_Validation_Electronic_and_Manual	Level 4

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA SAC**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
S4VE	Stage_4_Validation_Electronic		Level 4			
S4VM	Stage_4_Validation_Manual		Level 4			
S4VEM	Stage_4_Validation_Electronic_and_Manual		Level 4			
NV	Not_Validated		N/A			

Data Review Summary

Lab Reporting Batch ID: 240-1585-1 **Laboratory: TA SAC**

EDD Filename: 240-1585-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Validation Area	*Note*
Technical Holding Times	SR
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	N
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	N
Field Triplicates	N
Field Blanks	N

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Data Qualifier Summary

Lab Reporting Batch ID: 240-1585-1 **Laboratory: TA SAC**

EDD Filename: 240-1585-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: LL4SS416M0001/0002SO **Collected:** 6/26/2011 2:00:00 **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrocellulose	3.2	J	0.92	MDL	5.9	PQL	mg/kg	J	RI

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: LL4SS416M0001/0002SO **Collected:** 6/26/2011 2:00:00 **Analysis Type:** RE2/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.090	J	0.061	MDL	0.20	LOD	mg/Kg	J	RI, Ms
ARSENIC	8.0		0.052	MDL	0.50	LOD	mg/Kg	J-	Ms
BARIUM	67	J	0.13	MDL	0.50	LOD	mg/Kg	J+	Ms
COPPER	14		0.11	MDL	0.40	LOD	mg/Kg	J-	Lcs
SELENIUM	0.81		0.021	MDL	0.50	LOD	mg/Kg	J-	Ms
THALLIUM	0.12	J	0.056	MDL	0.20	LOD	mg/Kg	J	RI

Sample ID: LL4SS416M0001/0002SO **Collected:** 6/26/2011 2:00:00 **Analysis Type:** RE3/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	5900	J	2.5	MDL	10	LOD	mg/Kg	J+	Ms
CALCIUM	4500	J	40	MDL	200	LOD	mg/Kg	J+	Ms
IRON	16000	J	11	MDL	51	LOD	mg/Kg	J-	Ms
SODIUM	38	J	14	MDL	100	LOD	mg/Kg	J	RI

Sample ID: LL4SS416M0001/0002SO **Collected:** 6/26/2011 2:00:00 **Analysis Type:** RES/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.48	J D	0.017	MDL	0.50	LOD	mg/Kg	J	RI
CADMIUM	0.37	J D	0.015	MDL	0.99	LOD	mg/Kg	J	RI
MANGANESE	430	D J	0.79	MDL	2.5	LOD	mg/Kg	J+	Ms
ZINC	110	D J	5.0	MDL	20	LOD	mg/Kg	J	Ms, Ms

Sample ID: LL4SS-417M-0001-SO **Collected:** 6/26/2011 2:06:00 **Analysis Type:** RE2/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.092	J	0.062	MDL	0.20	LOD	mg/Kg	J	RI, Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1585-1 **Laboratory: TA SAC**

EDD Filename: 240-1585-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: LL4SS-417M-0001-SO **Collected:** 6/26/2011 2:06:00 **Analysis Type:** RE2/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	8.3		0.052	MDL	0.50	LOD	mg/Kg	J-	Ms
BARIUM	70		0.13	MDL	0.50	LOD	mg/Kg	J+	Ms
COPPER	14		0.11	MDL	0.40	LOD	mg/Kg	J-	Lcs
MANGANESE	480		0.16	MDL	0.50	LOD	mg/Kg	J+	Ms
SELENIUM	0.84		0.021	MDL	0.50	LOD	mg/Kg	J-	Ms
SODIUM	51	J	14	MDL	100	LOD	mg/Kg	J	RI
THALLIUM	0.16	J	0.056	MDL	0.20	LOD	mg/Kg	J	RI

Sample ID: LL4SS-417M-0001-SO **Collected:** 6/26/2011 2:06:00 **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.039	J	0.016	MDL	0.10	LOD	mg/Kg	J	RI
ZINC	82		1.0	MDL	4.0	LOD	mg/Kg	J	Ms, Ms

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: LL4SS416M0001/0002SO **Collected:** 6/26/2011 2:00:00 **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.024	J	0.013	MDL	0.094	LOD	mg/Kg	J	RI

Sample ID: LL4SS-417M-0001-SO **Collected:** 6/26/2011 2:06:00 **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.024	J	0.013	MDL	0.096	LOD	mg/Kg	J	RI

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: LL4SS416M0001/0002SO **Collected:** 6/26/2011 2:00:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	14	U J	13	MDL	41	LOD	ug/Kg	R	Ms
ALDRIN	27	U	24	MDL	82	LOD	ug/Kg	UJ	Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1585-1 **Laboratory: TA SAC**

EDD Filename: 240-1585-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8081A** ***Matrix:*** **SO**

Sample ID: **LL4SS416M0001/0002SO** ***Collected:*** **6/26/2011 2:00:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **20**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
ALPHA-BHC	27	U J	15	MDL	51	LOD	ug/Kg	UJ	Ms, Ms
ALPHA-CHLORDANE	27	U	19	MDL	61	LOD	ug/Kg	R	Ms
BETA-BHC	27	U	22	MDL	71	LOD	ug/Kg	R	Ms
DELTA-BHC	27	U Q	24	MDL	82	LOD	ug/Kg	R	Ms
ENDOSULFAN I	14	U J	11	MDL	35	LOD	ug/Kg	R	Ms
ENDOSULFAN II	27	U	17	MDL	51	LOD	ug/Kg	R	Ms
ENDOSULFAN SULFATE	27	U	18	MDL	61	LOD	ug/Kg	R	Ms
ENDRIN ALDEHYDE	27	U	20	MDL	61	LOD	ug/Kg	R	Ms
ENDRIN KETONE	14	U J	13	MDL	41	LOD	ug/Kg	R	Ms, Ms
GAMMA-BHC	27	U Q	15	MDL	51	LOD	ug/Kg	R	Ms
HEPTACHLOR	27	U	22	MDL	71	LOD	ug/Kg	UJ	Ms
HEPTACHLOR EPOXIDE	27	U	16	MDL	51	LOD	ug/Kg	R	Ms
METHOXYCHLOR	67	U	31	MDL	100	LOD	ug/Kg	R	Ms

Sample ID: **LL4SS-417M-0001-SO** ***Collected:*** **6/26/2011 2:06:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **10**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
4,4'-DDT	6.8	U	6.4	MDL	20	LOD	ug/Kg	R	Ms
ALDRIN	14	U	12	MDL	41	LOD	ug/Kg	UJ	Ms
ALPHA-BHC	14	U	7.5	MDL	26	LOD	ug/Kg	UJ	Ms, Ms
ALPHA-CHLORDANE	14	U	9.6	MDL	31	LOD	ug/Kg	R	Ms
BETA-BHC	14	U	11	MDL	36	LOD	ug/Kg	R	Ms
DELTA-BHC	14	U Q	12	MDL	41	LOD	ug/Kg	R	Ms
ENDOSULFAN I	6.8	U	5.3	MDL	17	LOD	ug/Kg	R	Ms
ENDOSULFAN II	14	U	8.4	MDL	26	LOD	ug/Kg	R	Ms
ENDOSULFAN SULFATE	14	U	8.9	MDL	31	LOD	ug/Kg	R	Ms
ENDRIN ALDEHYDE	14	U	10	MDL	31	LOD	ug/Kg	R	Ms
ENDRIN KETONE	6.8	U	6.4	MDL	20	LOD	ug/Kg	R	Ms, Ms
GAMMA-BHC	14	U Q	7.6	MDL	26	LOD	ug/Kg	R	Ms
HEPTACHLOR	14	U	11	MDL	36	LOD	ug/Kg	UJ	Ms
HEPTACHLOR EPOXIDE	14	U	8.2	MDL	26	LOD	ug/Kg	R	Ms
METHOXYCHLOR	34	U	15	MDL	51	LOD	ug/Kg	R	Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1585-1 **Laboratory: TA SAC**

EDD Filename: 240-1585-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: LL4SS416M0001/0002SO **Collected:** 6/26/2011 2:00:00 **Analysis Type:** RE2-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	25	U H	21	MDL	66	LOD	ug/Kg	UJ	StoE
AROCLOR 1221	25	U H	16	MDL	51	LOD	ug/Kg	UJ	StoE
AROCLOR 1232	25	U H	14	MDL	46	LOD	ug/Kg	UJ	StoE
AROCLOR 1242	25	U H	13	MDL	41	LOD	ug/Kg	UJ	StoE
AROCLOR 1248	25	U H	17	MDL	56	LOD	ug/Kg	UJ	StoE
AROCLOR 1254	25	U H	17	MDL	56	LOD	ug/Kg	UJ	StoE
AROCLOR 1260	25	U H J	17	MDL	56	LOD	ug/Kg	R	Ms, StoE

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: L12SS304M0001/0002SO **Collected:** 6/26/2011 4:25:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	3800	D J	170	MDL	340	LOD	ug/Kg	J	Ms, Ms
ANTHRACENE	10000	D J	170	MDL	340	LOD	ug/Kg	J	Ms, Ms
BENZO(A)ANTHRACENE	19000	D J	170	MDL	340	LOD	ug/Kg	J	Ms, Ms
BENZO(A)PYRENE	15000	D J	170	MDL	340	LOD	ug/Kg	J	Ms, Ms
BENZO(B)FLUORANTHENE	19000	D M J	170	MDL	340	LOD	ug/Kg	J	Ms, Ms
BENZO(G,H,I)PERYLENE	8700	D J	170	MDL	340	LOD	ug/Kg	J-	Ms
BENZO(K)FLUORANTHENE	8500	D M J	170	MDL	340	LOD	ug/Kg	J	Ms, Ms
CHRYSENE	16000	D J	57	MDL	340	LOD	ug/Kg	J	Ms, Ms
FLUORANTHENE	42000	D J	170	MDL	340	LOD	ug/Kg	J	Ms, Ms
FLUORENE	4100	D J	170	MDL	340	LOD	ug/Kg	J+	Ms
INDENO(1,2,3-CD)PYRENE	8700	D J	170	MDL	340	LOD	ug/Kg	J-	Ms
NAPHTHALENE	640	D M J	170	MDL	340	LOD	ug/Kg	J	Ms, Ms
PHENANTHRENE	30000	D J	170	MDL	340	LOD	ug/Kg	J+	Ms
PYRENE	33000	D J	170	MDL	340	LOD	ug/Kg	J	Ms, Ms

Sample ID: LL4SB-421M-0001-SO **Collected:** 6/26/2011 10:30:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	UJ	Ms
BENZO(G,H,I)PERYLENE	8.9		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1585-1 **Laboratory: TA SAC**

EDD Filename: 240-1585-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8270C** ***Matrix:*** **SO**

Sample ID: **LL4SB-421M-0001-SO** ***Collected:*** **6/26/2011 10:30:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	17		1.1	MDL	6.8	LOD	ug/Kg	J-	Ms
FLUORANTHENE	33		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms

Sample ID: **LL4SS-412M-0001-SO** ***Collected:*** **6/26/2011 11:20:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	12		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(G,H,I)PERYLENE	36	M	3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
CHRYSENE	59		1.1	MDL	6.8	LOD	ug/Kg	J-	Ms
FLUORANTHENE	59		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms

Sample ID: **LL4SS414M0001/0002SO** ***Collected:*** **6/26/2011 12:00:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	31		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(G,H,I)PERYLENE	49		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
CHRYSENE	130		1.1	MDL	6.8	LOD	ug/Kg	J-	Ms
FLUORANTHENE	77		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms

Sample ID: **LL4SS416M0001/0002SO** ***Collected:*** **6/26/2011 2:00:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROBENZENE	28	U J	9.9	MDL	51	LOD	ug/Kg	UJ	Ms
1,3-DICHLOROBENZENE	28	U J	11	MDL	51	LOD	ug/Kg	UJ	Ms, Ms
2,4-DINITROPHENOL	82	U J	82	MDL	340	LOD	ug/Kg	UJ	Ms, Ms
3,3'-DICHLOROBENZIDINE	82	U J	18	MDL	100	LOD	ug/Kg	UJ	Ms
3-NITROANILINE	82	U J	16	MDL	200	LOD	ug/Kg	UJ	Ms
4,6-DINITRO-2-METHYLPHENOL	82	U J	82	MDL	150	LOD	ug/Kg	UJ	Ms, Ms
4-CHLOROANILINE	28	U J	17	MDL	150	LOD	ug/Kg	R	Ms, Ms
4-NITROANILINE	28	U J	27	MDL	200	LOD	ug/Kg	R	Ms, Ms, Ms
ANTHRACENE	46	J	3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(G,H,I)PERYLENE	140		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZOIC ACID	340	U J	340	MDL	670	LOD	ug/Kg	UJ	Ms
CHRYSENE	210	J	1.1	MDL	6.8	LOD	ug/Kg	J-	Ms
DIBENZOFURAN	18	J	3.4	MDL	51	LOD	ug/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1585-1 **Laboratory: TA SAC**

EDD Filename: 240-1585-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8270C** ***Matrix:*** **SO**

Sample ID: **LL4SS416M0001/0002SO** ***Collected:*** **6/26/2011 2:00:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DI-N-BUTYL PHTHALATE	18	J	15	MDL	51	LOD	ug/Kg	J	RI
FLUORANTHENE	250	J	3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
HEXACHLOROCYCLOPENTADIENE	28	U	28	MDL	340	LOD	ug/Kg	R	Ms, Lcs
PENTACHLOROPHENOL	82	U J	82	MDL	150	LOD	ug/Kg	R	Ms, Ms

Sample ID: **LL4SS-417M-0001-SO** ***Collected:*** **6/26/2011 2:06:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROBENZENE	28	U	9.9	MDL	51	LOD	ug/Kg	UJ	Ms
1,3-DICHLOROBENZENE	28	U	11	MDL	51	LOD	ug/Kg	UJ	Ms, Ms
2,4-DINITROPHENOL	82	U	82	MDL	340	LOD	ug/Kg	UJ	Ms, Ms
3,3'-DICHLOROBENZIDINE	82	U	18	MDL	100	LOD	ug/Kg	UJ	Ms
3-NITROANILINE	82	U	16	MDL	200	LOD	ug/Kg	UJ	Ms
4,6-DINITRO-2-METHYLPHENOL	82	U	82	MDL	150	LOD	ug/Kg	UJ	Ms, Ms
4-CHLOROANILINE	28	U	17	MDL	150	LOD	ug/Kg	R	Ms, Ms
4-NITROANILINE	28	U	27	MDL	200	LOD	ug/Kg	R	Ms, Ms, Ms
ACENAPHTHENE	6.6	J	3.4	MDL	6.8	LOD	ug/Kg	J	RI
ANTHRACENE	33		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(G,H,I)PERYLENE	120		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZOIC ACID	340	U	340	MDL	670	LOD	ug/Kg	UJ	Ms
CHRYSENE	140		1.1	MDL	6.8	LOD	ug/Kg	J-	Ms
DIBENZOFURAN	20	J	3.4	MDL	51	LOD	ug/Kg	J	RI
FLUORANTHENE	140		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
HEXACHLOROCYCLOPENTADIENE	28	U	28	MDL	340	LOD	ug/Kg	R	Ms, Lcs
PENTACHLOROPHENOL	82	U	82	MDL	150	LOD	ug/Kg	R	Ms, Ms

Sample ID: **LL4SS-419M-0001-SO** ***Collected:*** **6/26/2011 9:15:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	9.5		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(G,H,I)PERYLENE	23	M	3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
CHRYSENE	36		1.1	MDL	6.8	LOD	ug/Kg	J-	Ms
FLUORANTHENE	70		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1585-1 **Laboratory: TA SAC**

EDD Filename: 240-1585-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: LL4SS-420M-0001-SO **Collected:** 6/26/2011 10:30:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	160		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(G,H,I)PERYLENE	220		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
CHRYSENE	430		1.1	MDL	6.8	LOD	ug/Kg	J-	Ms
FLUORANTHENE	1100		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms

Method Category: SVOA

Method: 8330 MODIFIED **Matrix: SO**

Sample ID: LL4SS416M0001/0002SO **Collected:** 6/26/2011 2:00:00 **Analysis Type:** RES/WET- **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitroguanidine	0.25	U	0.020	MDL	0.25	PQL	mg/kg	UJ	Ms

Sample ID: LL4SS-417M-0001-SO **Collected:** 6/26/2011 2:06:00 **Analysis Type:** RES/WET- **Dilution:** 0.99

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitroguanidine	0.25	U	0.020	MDL	0.25	PQL	mg/kg	UJ	Ms

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: LL4SS416V0001/0002SO **Collected:** 7/7/2011 3:43:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1-TRICHLOROETHANE	8.4	U	18	MDL	210	LOD	ug/Kg	UJ	Surr
1,1,2,2-TETRACHLOROETHANE	21	U	7.5	MDL	210	LOD	ug/Kg	UJ	Surr
1,1,2-TRICHLOROETHANE	21	U	10	MDL	210	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHANE	21	U	14	MDL	210	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHENE	21	U	15	MDL	210	LOD	ug/Kg	UJ	Surr
1,2-DIBROMOETHANE	21	U	8.4	MDL	210	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHANE	21	U	8.4	MDL	210	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHENE (TOTAL)	6.9	U	6.9	MDL	420	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROPROPANE	8.4	U	6.9	MDL	210	LOD	ug/Kg	UJ	Surr
2-BUTANONE	84	U	36	MDL	840	LOD	ug/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1585-1 **Laboratory: TA SAC**

EDD Filename: 240-1585-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **VOA**

Method: **8260B** ***Matrix:*** **SO**

Sample ID: **LL4SS416V0001/0002SO** ***Collected:*** **7/7/2011 3:43:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	42	U	17	MDL	840	LOD	ug/Kg	UJ	Surr
4-METHYL-2-PENTANONE	84	U	41	MDL	840	LOD	ug/Kg	UJ	Surr
ACETONE	170	U	140	MDL	840	LOD	ug/Kg	UJ	Surr
BENZENE	21	U	10	MDL	210	LOD	ug/Kg	UJ	Surr
BROMOCHLOROMETHANE	21	U	11	MDL	210	LOD	ug/Kg	UJ	Surr
BROMODICHLOROMETHANE	21	U	8.4	MDL	210	LOD	ug/Kg	UJ	Surr
BROMOFORM	21	U	16	MDL	210	LOD	ug/Kg	UJ	Surr
BROMOMETHANE	42	U	24	MDL	210	LOD	ug/Kg	UJ	Surr
CARBON DISULFIDE	21	U	10	MDL	210	LOD	ug/Kg	UJ	Surr
CARBON TETRACHLORIDE	8.4	U	5.4	MDL	210	LOD	ug/Kg	UJ	Surr
CHLOROBENZENE	8.4	U	5.4	MDL	210	LOD	ug/Kg	UJ	Surr
CHLOROETHANE	84	U	51	MDL	210	LOD	ug/Kg	UJ	Surr
CHLOROFORM	21	U	7.4	MDL	210	LOD	ug/Kg	UJ	Surr
CHLOROMETHANE	21	U	12	MDL	210	LOD	ug/Kg	UJ	Surr
CIS-1,2-DICHLOROETHENE	8.4	U	5.8	MDL	210	LOD	ug/Kg	UJ	Surr
CIS-1,3-DICHLOROPROPENE	8.4	U J	6.7	MDL	210	LOD	ug/Kg	R	Ms, Surr
DIBROMOCHLOROMETHANE	21	U	10	MDL	210	LOD	ug/Kg	UJ	Surr
ETHYL BENZENE	8.4	U	4.6	MDL	210	LOD	ug/Kg	UJ	Surr
METHYLENE CHLORIDE	84	U	65	MDL	210	LOD	ug/Kg	UJ	Surr
STYRENE	8.4	U	4.7	MDL	210	LOD	ug/Kg	UJ	Surr
TETRACHLOROETHENE	21	U	10	MDL	210	LOD	ug/Kg	UJ	Surr
TOLUENE	21	U	14	MDL	210	LOD	ug/Kg	UJ	Surr
TOTAL XYLENES	25	U	6.8	MDL	420	LOD	ug/Kg	UJ	Surr
TRANS-1,2-DICHLOROETHENE	21	U	7.8	MDL	210	LOD	ug/Kg	UJ	Surr
TRANS-1,3-DICHLOROPROPENE	21	U	17	MDL	210	LOD	ug/Kg	R	Ms, Surr
TRICHLOROETHENE	21	U	8.2	MDL	210	LOD	ug/Kg	UJ	Surr
VINYL CHLORIDE	21	U	15	MDL	210	LOD	ug/Kg	UJ	Surr

Sample ID: **LL4SS-417V-0001-SO** ***Collected:*** **7/7/2011 3:43:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1-TRICHLOROETHANE	9.4	U	20	MDL	230	LOD	ug/Kg	UJ	Surr
1,1,2,2-TETRACHLOROETHANE	23	U	8.3	MDL	230	LOD	ug/Kg	UJ	Surr
1,1,2-TRICHLOROETHANE	23	U	11	MDL	230	LOD	ug/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1585-1 **Laboratory: TA SAC**

EDD Filename: 240-1585-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **VOA**

Method: **8260B** ***Matrix:*** **SO**

Sample ID: **LL4SS-417V-0001-SO** ***Collected:*** **7/7/2011 3:43:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,1-DICHLOROETHANE	23	U	16	MDL	230	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHENE	23	U	17	MDL	230	LOD	ug/Kg	UJ	Surr
1,2-DIBROMOETHANE	23	U	9.4	MDL	230	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHANE	23	U	9.4	MDL	230	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHENE (TOTAL)	7.7	U	7.7	MDL	470	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROPROPANE	9.4	U	7.7	MDL	230	LOD	ug/Kg	UJ	Surr
2-BUTANONE	94	U	40	MDL	940	LOD	ug/Kg	UJ	Surr
2-HEXANONE	47	U	19	MDL	940	LOD	ug/Kg	UJ	Surr
4-METHYL-2-PENTANONE	94	U	45	MDL	940	LOD	ug/Kg	UJ	Surr
ACETONE	190	U	160	MDL	940	LOD	ug/Kg	UJ	Surr
BENZENE	23	U	11	MDL	230	LOD	ug/Kg	UJ	Surr
BROMOCHLOROMETHANE	23	U	12	MDL	230	LOD	ug/Kg	UJ	Surr
BROMODICHLOROMETHANE	23	U	9.3	MDL	230	LOD	ug/Kg	UJ	Surr
BROMOFORM	23	U	18	MDL	230	LOD	ug/Kg	UJ	Surr
BROMOMETHANE	47	U	27	MDL	230	LOD	ug/Kg	UJ	Surr
CARBON DISULFIDE	23	U	11	MDL	230	LOD	ug/Kg	UJ	Surr
CARBON TETRACHLORIDE	9.4	U	6.0	MDL	230	LOD	ug/Kg	UJ	Surr
CHLOROBENZENE	9.4	U	6.0	MDL	230	LOD	ug/Kg	UJ	Surr
CHLOROETHANE	94	U	57	MDL	230	LOD	ug/Kg	UJ	Surr
CHLOROFORM	23	U	8.2	MDL	230	LOD	ug/Kg	UJ	Surr
CHLOROMETHANE	23	U	13	MDL	230	LOD	ug/Kg	UJ	Surr
CIS-1,2-DICHLOROETHENE	9.4	U	6.5	MDL	230	LOD	ug/Kg	UJ	Surr
CIS-1,3-DICHLOROPROPENE	9.4	U	7.4	MDL	230	LOD	ug/Kg	R	Ms, Surr
DIBROMOCHLOROMETHANE	23	U	11	MDL	230	LOD	ug/Kg	UJ	Surr
ETHYL BENZENE	9.4	U	5.0	MDL	230	LOD	ug/Kg	UJ	Surr
METHYLENE CHLORIDE	94	U	72	MDL	230	LOD	ug/Kg	UJ	Surr
STYRENE	9.4	U	5.2	MDL	230	LOD	ug/Kg	UJ	Surr
TETRACHLOROETHENE	23	U	11	MDL	230	LOD	ug/Kg	UJ	Surr
TOLUENE	23	U	16	MDL	230	LOD	ug/Kg	UJ	Surr
TOTAL XYLENES	28	U	7.6	MDL	470	LOD	ug/Kg	UJ	Surr
TRANS-1,2-DICHLOROETHENE	23	U	8.6	MDL	230	LOD	ug/Kg	UJ	Surr
TRANS-1,3-DICHLOROPROPENE	23	U	19	MDL	230	LOD	ug/Kg	R	Ms, Surr
TRICHLOROETHENE	23	U	9.1	MDL	230	LOD	ug/Kg	UJ	Surr
VINYL CHLORIDE	23	U	17	MDL	230	LOD	ug/Kg	UJ	Surr

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 240-1585-1 **Laboratory: TA SAC**

EDD Filename: 240-1585-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Data Qualifier Summary

Lab Reporting Batch ID: 240-1585-1 **Laboratory: TA SAC**

EDD Filename: 240-1585-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Reason Code Legend

Reason Code	*Description*
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Lower Rejection
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Lower Rejection
Ms	Matrix Spike Precision
Ms	Matrix Spike Upper Estimation
Ms	Matrix Spike Upper Rejection
RI	Reporting Limit Trace Value
StoE	Sampling to Extraction Estimation
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation

* denotes a non-reportable result

Surrogate Outlier Report

Lab Reporting Batch ID: 240-1585-1 **Laboratory: TA SAC**

EDD Filename: 240-1585-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 8260B
Matrix: SO

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
LL4SS416V0001/0002SO	1,2-DICHLOROETHANE-D4 4-Bromofluorobenzene DIBROMOFLUOROMETHANE TOLUENE-D8	74 67 64 67	85.00-120.00 85.00-120.00 85.00-120.00 85.00-115.00	All Target Analytes	J-(all detects) UJ(all non-detects)
LL4SS-417V-0001-SO	1,2-DICHLOROETHANE-D4 4-Bromofluorobenzene DIBROMOFLUOROMETHANE TOLUENE-D8	71 64 59 64	85.00-120.00 85.00-120.00 85.00-120.00 85.00-115.00	All Target Analytes	J-(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
L12SS304M0001/0002SO	2,4,6-TRIBROMOPHENOL	0	35.00-125.00	No Affected Compounds	
L12SS-306M-0001-SO	2,4,6-TRIBROMOPHENOL	30	35.00-125.00	No Affected Compounds	

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 240-1585-1 **Laboratory: TA SAC**

EDD Filename: 240-1585-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 8330 MODIFIED
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LL4SS416M0001/0002SOMSD (LL4SS416M0001/0002SO LL4SS-417M-0001-SO)	Nitroguanidine	-	71	72.00-120.00	-	Nitroguanidine	J- (all detects) UJ (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LL4SS416M0001/0002SOMS (TOT) (LL4SS416M0001/0002SO)	IRON	58	-	80.00-120.00	-	IRON	J-(all detects) R(all non-detects)
LL4SS416M0001/0002SOMS (TOT) **LL4SS416M0001/0002SOMSD (TOT)** (LL4SS416M0001/0002SO)	ALUMINUM CALCIUM	165 -	183 170	80.00-120.00 80.00-120.00	- -	ALUMINUM CALCIUM	J+(all detects) R(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
L12SS304M0001/0002SOMS **L12SS304M0001/0002SOMSD** (L12SS304M0001/0002SO)	ACENAPHTHENE ANTHRACENE BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE CHRYSENE FLUORANTHENE PYRENE	-5 20 9 24 -16 20 -31 -52 -62	165 265 241 146 131 175 346 752 502	45.00-110.00 55.00-105.00 50.00-110.00 45.00-110.00 45.00-115.00 45.00-125.00 55.00-110.00 55.00-115.00 45.00-125.00	- - - - - - - - -	ACENAPHTHENE ANTHRACENE BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE CHRYSENE FLUORANTHENE PYRENE	J(all detects) R(all non-detects)
L12SS304M0001/0002SOMSD (L12SS304M0001/0002SO)	NAPHTHALENE	-	106	40.00-105.00	33 (30.00)	NAPHTHALENE	J(all detects) UJ(all non-detects)
L12SS304M0001/0002SOMS **L12SS304M0001/0002SOMSD** (L12SS304M0001/0002SO)	BENZO(G,H,I)PERYLENE INDENO(1,2,3-CD)PYRENE	-30 -15	- -20	55.00-125.00 40.00-120.00	- -	BENZO(G,H,I)PERYLENE INDENO(1,2,3-CD)PYRENE	J-(all detects) R(all non-detects)
L12SS304M0001/0002SOMSD (L12SS304M0001/0002SO)	FLUORENE PHENANTHRENE	- -	185 641	50.00-110.00 50.00-110.00	- -	FLUORENE PHENANTHRENE	J+(all detects) R(all non-detects)
LL4SS416M0001/0002SOMS **LL4SS416M0001/0002SOMSD** (LL4SB-421M-0001-SO LL4SS-412M-0001-SO LL4SS414M0001/0002SO LL4SS416M0001/0002SO LL4SS-417M-0001-SO LL4SS-419M-0001-SO LL4SS-420M-0001-SO)	4-CHLOROANILINE 4-NITROANILINE PENTACHLOROPHENOL	0 0 -	- 32 18	10.00-100.00 35.00-115.00 40.00-100.00	200 (30.00) 200 (30.00) 77 (30.00)	4-CHLOROANILINE 4-NITROANILINE PENTACHLOROPHENOL	J(all detects) R(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 240-1585-1 **Laboratory: TA SAC**

EDD Filename: 240-1585-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LL4SS416M0001/0002SOMS **LL4SS416M0001/0002SOMSD** (LL4SB-421M-0001-SO LL4SS-412M-0001-SO LL4SS414M0001/0002SO LL4SS416M0001/0002SO LL4SS-417M-0001-SO LL4SS-419M-0001-SO LL4SS-420M-0001-SO)	1,3-DICHLOROBENZENE 2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID	38 - - -	- 14 21 -	40.00-100.00 15.00-130.00 30.00-135.00 0.00-110.00	34 (30.00) 99 (30.00) 82 (30.00) 200 (30.00)	1,3-DICHLOROBENZENE 2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHEN BENZOIC ACID	J(all detects) UJ(all non-detects)
LL4SS416M0001/0002SOMS **LL4SS416M0001/0002SOMSD** (LL4SB-421M-0001-SO LL4SS-412M-0001-SO LL4SS414M0001/0002SO LL4SS416M0001/0002SO LL4SS-417M-0001-SO LL4SS-419M-0001-SO LL4SS-420M-0001-SO)	HEXACHLOROCYCLOPENTADI	0	0	45.00-11.00	-	HEXACHLOROCYCLOPENTAD	J-(all detects) R(all non-detects)
LL4SS416M0001/0002SOMS **LL4SS416M0001/0002SOMSD** (LL4SB-421M-0001-SO LL4SS-412M-0001-SO LL4SS414M0001/0002SO LL4SS416M0001/0002SO LL4SS-417M-0001-SO LL4SS-419M-0001-SO LL4SS-420M-0001-SO)	1,2-DICHLOROBENZENE 3,3'-DICHLOROBENZIDINE 3-NITROANILINE ANTHRACENE BENZO(G,H,I)PERYLENE CHRYSENE FLUORANTHENE	43 0 20 - - 51 46	- 0 23 52 53 47 49	45.00-100.00 10.00-130.00 25.00-110.00 55.00-105.00 55.00-125.00 55.00-110.00 55.00-115.00	- - - - - - -	1,2-DICHLOROBENZENE 3,3'-DICHLOROBENZIDINE 3-NITROANILINE ANTHRACENE BENZO(G,H,I)PERYLENE CHRYSENE FLUORANTHENE	J-(all detects) UJ(all non-detects)
LL4SS414M0001/0002SOMSD (LL4SB-421M-0001-SO LL4SS-412M-0001-SO LL4SS414M0001/0002SO LL4SS416M0001/0002SO LL4SS-417M-0001-SO LL4SS-419M-0001-SO LL4SS-420M-0001-SO)	ANTHRACENE CHRYSENE FLUORANTHENE	- - -	50 50 52	55.00-105.00 55.00-110.00 55.00-115.00	- - -	ANTHRACENE CHRYSENE FLUORANTHENE	J-(all detects) UJ(all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LL4SS416M0001/0002SOMS **LL4SS416M0001/0002SOMSD** (LL4SS416M0001/0002SO LL4SS-417M-0001-SO)	ENDRIN KETONE	0	-	65.00-135.00	200 (30.00)	ENDRIN KETONE	J(all detects) R(all non-detects)
LL4SS416M0001/0002SOMS **LL4SS416M0001/0002SOMSD** (LL4SS416M0001/0002SO LL4SS-417M-0001-SO)	ALPHA-BHC	0	0	60.00-125.00	200 (30.00)	ALPHA-BHC	J(all detects) UJ(all non-detects)
LL4SS416M0001/0002SOMS **LL4SS416M0001/0002SOMSD** (LL4SS416M0001/0002SO LL4SS-417M-0001-SO)	4,4'-DDT ALPHA-CHLORDANE BETA-BHC DELTA-BHC ENDOSULFAN I ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ALDEHYDE GAMMA-BHC HEPTACHLOR EPOXIDE METHOXYCHLOR	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	45.00-140.00 65.00-120.00 60.00-125.00 55.00-130.00 15.00-135.00 35.00-140.00 60.00-135.00 35.00-145.00 60.00-125.00 65.00-130.00 55.00-145.00	- - - - - - - - - - -	4,4'-DDT ALPHA-CHLORDANE BETA-BHC DELTA-BHC ENDOSULFAN I ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ALDEHYDE GAMMA-BHC HEPTACHLOR EPOXIDE METHOXYCHLOR	J-(all detects) R(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 240-1585-1 **Laboratory: TA SAC**

EDD Filename: 240-1585-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LL4SS416M0001/0002SOMS **LL4SS416M0001/0002SOMSD** (LL4SS416M0001/0002SO LL4SS-417M-0001-SO)	ALDRIN HEPTACHLOR	0 0	0 0	45.00-140.00 50.00-140.00	- -	ALDRIN HEPTACHLOR	J-(all detects) UJ(all non-detects)
LL4SS416M0001/0002SOMS **LL4SS416M0001/0002SOMSD** (LL4SS416M0001/0002SO LL4SS-417M-0001-SO)	4,4'-DDD 4,4'-DDE	- 127	142 -	30.00-135.00 70.00-125.00	- -	4,4'-DDD 4,4'-DDE	J+(all detects)

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LL4SS416V0001/0002SOMS (LL4SS416V0001/0002SO LL4SS-417V-0001-SO)	CIS-1,3-DICHLOROPROPENE	64	-	70.00-125.00	-	CIS-1,3-DICHLOROPROPENE	J-(all detects) R(all non-detects)
LL4SS416V0001/0002SOMS (LL4SS416V0001/0002SO LL4SS-417V-0001-SO)	TRANS-1,3-DICHLOROPROPEN	-	-	65.00-125.00	-	TRANS-1,3-DICHLOROPROPE	J+(all detects) R(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LL4SS416M0001/0002SOMS (TOT) **LL4SS416M0001/0002SOMSD (TOT)** (LL4SS416M0001/0002SO LL4SS-417M-0001-SO)	ZINC	404	125	80.00-120.00	21 (20.00)	ZINC	J(all detects) R(all non-detects)
LL4SS416M0001/0002SOMS (TOT) **LL4SS416M0001/0002SOMSD (TOT)** (LL4SS416M0001/0002SO LL4SS-417M-0001-SO)	ANTIMONY ARSENIC SELENIUM	31 79 69	32 78 69	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ANTIMONY ARSENIC SELENIUM	J-(all detects) R(all non-detects)
LL4SS416M0001/0002SOMS (TOT) **LL4SS416M0001/0002SOMSD (TOT)** (LL4SS416M0001/0002SO LL4SS-417M-0001-SO)	BARIUM MANGANESE	186 564	294 872	80.00-120.00 80.00-120.00	- -	BARIUM MANGANESE	J+(all detects) R(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 240-1585-1 **Laboratory: TA SAC**

EDD Filename: 240-1585-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: **8082**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
LL4SS416M0001/0002SOMS (LL4SS416M0001/0002SO)	AROCLOR 1260	53	-	60.00-130.00	-	AROCLOR 1260	J-(all detects) R(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 240-1585-1 **Laboratory: TA SAC**

EDD Filename: 240-1585-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS 240-7317/22-A (LL4SB-421M-0001-SO LL4SS-412M-0001-SO LL4SS414M0001/0002SO LL4SS416M0001/0002SO LL4SS-417M-0001-SO LL4SS-419M-0001-SO LL4SS-420M-0001-SO)	HEXACHLOROCYCLOPENTADI	42	-	45.00-110.00	-	HEXACHLOROCYCLOPENTAD	J- (all detects) UJ (all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS 240-7329/11-A (LL4SS416M0001/0002SO LL4SS-417M-0001-SO)	DELTA-BHC	136	-	55.00-130.00	-	DELTA-BHC	J+(all detects)
	GAMMA-BHC	130	-	60.00-125.00	-	GAMMA-BHC	
	GAMMA-CHLORDANE	130	-	65.00-125.00	-	GAMMA-CHLORDANE	

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS 240-8611/2-A (TOT) (LL4SS416M0001/0002SO LL4SS-417M-0001-SO)	COPPER	-	-	80.00-120.00	-	COPPER	J-(all detects) R(all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: 240-1585-1 **Laboratory: TA SAC**

EDD Filename: 240-1585-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB 240-14048/1-A	9/8/2011 10:41:00 AM	ALUMINUM	2.58 mg/Kg	LL4SS416M0001/0002SO
MB 240-8611/1-A	8/25/2011 10:08:00 PM	NICKEL	0.103 mg/Kg	LL4SS416M0001/0002SO LL4SS-417M-0001-SO

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: 240-1585-1 **Laboratory: TA SAC**

EDD Filename: 240-1585-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 8082 **Preparation Method: 3540C**

Matrix: SO

Sample ID	Type	Actual	Criteria	Units	Flag
LL4SS416M0001/0002SO (RE2)	Sampling To Extraction	24.00	14.00	DAYS	J- (all detects)
LL4SS416M0001/0002SOMS (RES)		24.00	14.00	DAYS	UJ (all non-detects)
LL4SS416M0001/0002SOMSD (RE		24.00	14.00	DAYS	

Temperature Outliers

Lab Reporting Batch ID: 240-1585-1 **Laboratory: TA SAC**

EDD Filename: 240-1585-1 **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA CAN**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Lab Reporting Batch: 240-1585-2						
Method: 6020						
L12SS-303M-0001-SO	240-1585-12	SO	N	3050B	6/26/2011 3:50:00 PM	S2AVE
L12SS304M0001/0002SO	240-1585-13	SO	N	3050B	6/26/2011 4:25:00 PM	S2AVE

Validation Label Legend

Label Code	Label Decription	EPA Level
S1VE	Stage_1_Validation_Electronic	N/A
S1VM	Stage_1_Validation_Manual	N/A
S1VEM	Stage_1_Validation_Electronic_and_Manual	N/A
S2AVE	Stage_2A_Validation_Electronic	Level 3 w/o calibration
S2AVM	Stage_2A_Validation_Manual	Level 3 w/o calibration
S2AVEM	Stage_2A_Validation_Electronic_and_Manual	Level 3 w/o calibration
S2BVE	Stage_2B_Validation_Electronic	Level 3 with
S2BVM	Stage_2B_Validation_Manual	Level 3 with
S2BVEM	Stage_2B_Validation_Electronic_and_Manual	Level 3 with
S3VE	Stage_3_Validation_Electronic	Level 4
S3VM	Stage_3_Validation_Manual	Level 4
S3VEM	Stage_3_Validation_Electronic_and_Manual	Level 4
S4VE	Stage_4_Validation_Electronic	Level 4
S4VM	Stage_4_Validation_Manual	Level 4
S4VEM	Stage_4_Validation_Electronic_and_Manual	Level 4
NV	Not_Validated	N/A

Data Qualifier Summary

Lab Reporting Batch ID: 240-1585-2 **Laboratory: TA CAN**

EDD Filename: 240-1585-2 **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 240-1585-2

Laboratory: TA CAN

EDD Filename: 240-1585-2

eQAPP Name: DoD QSM v4 Master_27May09

No Data Review Qualifiers Applied.

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 240-1585-2 **Laboratory: TA CAN**

EDD Filename: 240-1585-2 **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.

Method Blank Outlier Report

Lab Reporting Batch ID: 240-1585-2 **Laboratory: TA CAN**

EDD Filename: 240-1585-2 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB 240-16917/1-A	9/28/2011 7:53:00 AM	ARSENIC	0.114 mg/Kg	L12SS-303M-0001-SO L12SS304M0001/0002SO

Project Name and Number: W912QR-10-P-0037 - LLS 1-4, 12

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA CAN**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
S2AVE	Stage_2A_Validation_Electronic		Level 3 w/o calibration			
S2AVM	Stage_2A_Validation_Manual		Level 3 w/o calibration			
S2AVEM	Stage_2A_Validation_Electronic_and_Manual		Level 3 w/o calibration			
S2BVE	Stage_2B_Validation_Electronic		Level 3 with			
S2BVM	Stage_2B_Validation_Manual		Level 3 with			
S2BVEM	Stage_2B_Validation_Electronic_and_Manual		Level 3 with			
S3VE	Stage_3_Validation_Electronic		Level 4			
S3VM	Stage_3_Validation_Manual		Level 4			
S3VEM	Stage_3_Validation_Electronic_and_Manual		Level 4			
S4VE	Stage_4_Validation_Electronic		Level 4			
S4VM	Stage_4_Validation_Manual		Level 4			
S4VEM	Stage_4_Validation_Electronic_and_Manual		Level 4			
NV	Not_Validated		N/A			

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA CAN**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Lab Reporting Batch: 240-1599-1						
Method: 8270C						
LL4SB-407M-0101-SO	240-1599-4	SO	N	3540C	6/27/2011 3:30:00 PM	S2AVE
LL4SB-407M-0102-SO	240-1599-5	SO	N	3540C	6/27/2011 3:32:00 PM	S2AVE
LL4SB-407M-0103-SO	240-1599-6	SO	N	3540C	6/27/2011 3:34:00 PM	S2AVE
LL4SB-410M-0101-SO	240-1599-7	SO	N	3540C	6/27/2011 5:40:00 PM	S2AVE
LL4SB-410M-0102-SO	240-1599-8	SO	N	3540C	6/27/2011 5:39:00 PM	S2AVE
LL4SB-410M-0103-SO	240-1599-9	SO	N	3540C	6/27/2011 5:36:00 PM	S2AVE
LL4SB-411M-0101-SO	240-1599-1	SO	N	3540C	6/27/2011 12:08:00 PM	S2AVE
LL4SB-411M-0102-SO	240-1599-2	SO	N	3540C	6/27/2011 12:09:00 PM	S2AVE
LL4SB-411M-0103-SO	240-1599-3	SO	N	3540C	6/27/2011 12:10:00 PM	S2AVE
LL4SB-413M-0101-SO	240-1599-13	SO	N	3540C	6/28/2011 3:18:00 PM	S2AVE
LL4SB-413M-0102-SO	240-1599-14	SO	N	3540C	6/28/2011 3:24:00 PM	S2AVE
LL4SB-413M-0103-SO	240-1599-15	SO	N	3540C	6/28/2011 3:25:00 PM	S2AVE
LL4SB-413M-0103-SOMS	240-1599-15MS	SO	MS	3540C	6/28/2011 3:25:00 PM	S2AVE
LL4SB-413M-0103-SOMSD	240-1599-15MSD	SO	MSD	3540C	6/28/2011 3:25:00 PM	S2AVE
LL4SB-415M-0101-SO	240-1599-10	SO	N	3540C	6/28/2011 11:15:00 AM	S2AVE
LL4SB-415M-0102-SO	240-1599-11	SO	N	3540C	6/28/2011 11:15:00 AM	S2AVE
LL4SB-415M-0103-SO	240-1599-12	SO	N	3540C	6/28/2011 11:15:00 AM	S2AVE

Validation Label Legend

Label Code	Label Decription	EPA Level
S1VE	Stage_1_Validation_Electronic	N/A
S1VM	Stage_1_Validation_Manual	N/A
S1VEM	Stage_1_Validation_Electronic_and_Manual	N/A

Data Qualifier Summary

Lab Reporting Batch ID: 240-1599-1 **Laboratory: TA CAN**

EDD Filename: 240-1599-1 8-18-11 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: LL4SB-407M-0101-SO **Collected:** 6/27/2011 3:30:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	2400	D	34	MDL	68	LOD	ug/Kg	J-	Ms

Sample ID: LL4SB-407M-0102-SO **Collected:** 6/27/2011 3:32:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 2.5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	420		8.4	MDL	17	LOD	ug/Kg	J-	Ms

Sample ID: LL4SB-407M-0103-SO **Collected:** 6/27/2011 3:34:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	R	Surr
ACENAPHTHYLENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	R	Surr
ANTHRACENE	6.6	J	3.4	MDL	6.8	LOD	ug/Kg	J	RI, Ms, Surr
BENZO(A)ANTHRACENE	10		3.4	MDL	6.8	LOD	ug/Kg	J-	Surr
BENZO(A)PYRENE	9.4		3.4	MDL	6.8	LOD	ug/Kg	J-	Surr
BENZO(B)FLUORANTHENE	11		3.4	MDL	6.8	LOD	ug/Kg	J-	Surr
BENZO(G,H,I)PERYLENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	R	Surr
BENZO(K)FLUORANTHENE	7.0	M	3.4	MDL	6.8	LOD	ug/Kg	J-	Surr
CHRYSENE	11		1.1	MDL	6.8	LOD	ug/Kg	J-	Surr
DIBENZO(A,H)ANTHRACENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	R	Surr
FLUORANTHENE	30		3.4	MDL	6.8	LOD	ug/Kg	J-	Surr
FLUORENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	R	Surr
INDENO(1,2,3-CD)PYRENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	R	Surr
NAPHTHALENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	R	Surr
PHENANTHRENE	27		3.4	MDL	6.8	LOD	ug/Kg	J-	Surr
PYRENE	23		3.4	MDL	6.8	LOD	ug/Kg	J-	Surr

Sample ID: LL4SB-410M-0101-SO **Collected:** 6/27/2011 5:40:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	6.7		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1599-1 **Laboratory: TA CAN**

EDD Filename: 240-1599-1 8-18-11 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: LL4SB-410M-0102-SO **Collected:** 6/27/2011 5:39:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	UJ	Ms

Sample ID: LL4SB-410M-0103-SO **Collected:** 6/27/2011 5:36:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	150		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms

Sample ID: LL4SB-411M-0101-SO **Collected:** 6/27/2011 12:08:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	52		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms

Sample ID: LL4SB-411M-0102-SO **Collected:** 6/27/2011 12:09:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	UJ	Ms

Sample ID: LL4SB-411M-0103-SO **Collected:** 6/27/2011 12:10:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	6.8		3.3	MDL	6.8	LOD	ug/Kg	J-	Ms

Sample ID: LL4SB-413M-0101-SO **Collected:** 6/28/2011 3:18:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	UJ	Ms

Sample ID: LL4SB-413M-0102-SO **Collected:** 6/28/2011 3:24:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	UJ	Ms

Sample ID: LL4SB-413M-0103-SO **Collected:** 6/28/2011 3:25:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	3.4	U J	3.4	MDL	6.8	LOD	ug/Kg	UJ	Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1599-1 **Laboratory: TA CAN**

EDD Filename: 240-1599-1 8-18-11 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: LL4SB-415M-0101-SO **Collected:** 6/28/2011 11:15:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	UJ	Ms

Sample ID: LL4SB-415M-0102-SO **Collected:** 6/28/2011 11:15:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	3.4	U	3.4	MDL	6.9	LOD	ug/Kg	UJ	Ms

Sample ID: LL4SB-415M-0103-SO **Collected:** 6/28/2011 11:15:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	33	U	33	MDL	68	LOD	ug/Kg	R	Surr
ACENAPHTHYLENE	33	U	33	MDL	68	LOD	ug/Kg	R	Surr
ANTHRACENE	80		33	MDL	68	LOD	ug/Kg	J-	Ms, Surr
BENZO(A)ANTHRACENE	95		33	MDL	68	LOD	ug/Kg	J-	Surr
BENZO(A)PYRENE	77		33	MDL	68	LOD	ug/Kg	J-	Surr
BENZO(B)FLUORANTHENE	87		33	MDL	68	LOD	ug/Kg	J-	Surr
BENZO(G,H,I)PERYLENE	95		33	MDL	68	LOD	ug/Kg	J-	Surr
BENZO(K)FLUORANTHENE	89		33	MDL	68	LOD	ug/Kg	J-	Surr
CHRYSENE	87		11	MDL	68	LOD	ug/Kg	J-	Surr
DIBENZO(A,H)ANTHRACENE	33	U	33	MDL	68	LOD	ug/Kg	R	Surr
FLUORANTHENE	87		33	MDL	68	LOD	ug/Kg	J-	Surr
FLUORENE	71		33	MDL	68	LOD	ug/Kg	J-	Surr
INDENO(1,2,3-CD)PYRENE	73		33	MDL	68	LOD	ug/Kg	J-	Surr
NAPHTHALENE	33	U	33	MDL	68	LOD	ug/Kg	R	Surr
PHENANTHRENE	84		33	MDL	68	LOD	ug/Kg	J-	Surr
PYRENE	88		33	MDL	68	LOD	ug/Kg	J-	Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1599-1 **Laboratory: TA CAN**

EDD Filename: 240-1599-1 8-18-11 **eQAPP Name: DoD QSM v4 Master_27May09**

Reason Code Legend

Reason Code	*Description*
Ms	Matrix Spike Lower Estimation
RI	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Lower Rejection

* denotes a non-reportable result

Surrogate Outlier Report

Lab Reporting Batch ID: 240-1599-1 **Laboratory: TA CAN**

EDD Filename: 240-1599-1 8-18-11 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: **8270C**
Matrix: **SO**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
LL4SB-407M-0101-SO	2,4,6-TRIBROMOPHENOL	28	35.00-125.00	No Affected Compounds	
LL4SB-407M-0103-SO	2-FLUOROBIPHENYL 2-FLUOROPHENOL Nitrobenzene-d5 Terphenyl-d14	13 17 15 18	45.00-105.00 35.00-105.00 35.00-100.00 30.00-125.00	All Target Analytes	J-(all detects) R(all non-detects)
LL4SB-407M-0103-SO	2,4,6-TRIBROMOPHENOL PHENOL-D5	8 18	35.00-125.00 40.00-100.00	All Acid Target Analytes	J-(all detects) UJ(all non-detects)
LL4SB-410M-0101-SO	2,4,6-TRIBROMOPHENOL	27	35.00-125.00	No Affected Compounds	
LL4SB-411M-0101-SO	2,4,6-TRIBROMOPHENOL	32	35.00-125.00	No Affected Compounds	
LL4SB-415M-0101-SO	2,4,6-TRIBROMOPHENOL	32	35.00-125.00	No Affected Compounds	
LL4SB-415M-0103-SO	2-FLUOROBIPHENYL Nitrobenzene-d5	22 23	45.00-105.00 35.00-100.00	All Base/Neutral Target Analytes	J-(all detects) R(all non-detects)
LL4SB-415M-0103-SO	2,4,6-TRIBROMOPHENOL 2-FLUOROPHENOL PHENOL-D5	18 28 28	35.00-125.00 35.00-105.00 40.00-100.00	All Acid Target Analytes	J-(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 240-1599-1 **Laboratory: TA CAN**

EDD Filename: 240-1599-1 8-18-11 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: **8270C**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
LL4SB-413M-0103-SOMS (LL4SB-407M-0101-SO LL4SB-407M-0102-SO LL4SB-407M-0103-SO LL4SB-410M-0101-SO LL4SB-410M-0102-SO LL4SB-410M-0103-SO LL4SB-411M-0101-SO LL4SB-411M-0102-SO LL4SB-411M-0103-SO LL4SB-413M-0101-SO LL4SB-413M-0102-SO LL4SB-413M-0103-SO LL4SB-415M-0101-SO LL4SB-415M-0102-SO LL4SB-415M-0103-SO)	ANTHRACENE	54	-	55.00-105.00	-	ANTHRACENE	J- (all detects) UJ (all non-detects)

Project Name and Number: W912QR-10-P-0037 - LLS 1-4, 12

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 240-1599-1 **Laboratory: TA CAN**

EDD Filename: 240-1599-1 8-18-11 **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.

Method Blank Outlier Report

Lab Reporting Batch ID: 240-1599-1 **Laboratory: TA CAN**

EDD Filename: 240-1599-1 8-18-11 **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: 240-1599-1 **Laboratory: TA CAN**

EDD Filename: 240-1599-1 8-18-11 **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.

Temperature Outliers

Lab Reporting Batch ID: 240-1599-1 **Laboratory: TA CAN**

EDD Filename: 240-1599-1 8-18-11 **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA CAN**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Lab Reporting Batch: 240-1619-1						
Method: 8082						
LL3SB-412M-0101-SO	240-1619-4	SO	N	3540C	6/30/2011 10:27:00 AM	S2AVE
LL3SB-412M-0102-SO	240-1619-5	SO	N	3540C	6/30/2011 10:45:00 AM	S2AVE
LL3SB-413M-0101-SO	240-1619-8	SO	N	3540C	6/30/2011 2:24:00 PM	S2AVE
LL3SB-413M-0102-SO	240-1619-9	SO	N	3540C	6/30/2011 2:25:00 PM	S2AVE
LL3SB-413M-0103-SO	240-1619-10	SO	N	3540C	6/30/2011 2:25:00 PM	S2AVE
LL3SB-423M-0001-SO	240-1619-7	SO	N	3540C	6/30/2011 11:50:00 AM	S2AVE
LL3SB-424M-0001-SO	240-1619-6	SO	N	3540C	6/30/2011 9:30:00 AM	S2AVE
Method: 8270C						
LL3SB-414M-0101-SO	240-1619-1	SO	N	3540C	6/29/2011 5:30:00 PM	S2AVE
LL3SB-414M-0102-SO	240-1619-2	SO	N	3540C	6/29/2011 5:30:00 PM	S2AVE
LL3SB-414M-0103-SO	240-1619-3	SO	N	3540C	6/29/2011 5:30:00 PM	S2AVE

Validation Label Legend

Label Code	Label Decription	EPA Level
S1VE	Stage_1_Validation_Electronic	N/A
S1VM	Stage_1_Validation_Manual	N/A
S1VEM	Stage_1_Validation_Electronic_and_Manual	N/A
S2AVE	Stage_2A_Validation_Electronic	Level 3 w/o calibration
S2AVM	Stage_2A_Validation_Manual	Level 3 w/o calibration
S2AVEM	Stage_2A_Validation_Electronic_and_Manual	Level 3 w/o calibration
S2BVE	Stage_2B_Validation_Electronic	Level 3 with
S2BVM	Stage_2B_Validation_Manual	Level 3 with
S2BVEM	Stage_2B_Validation_Electronic_and_Manual	Level 3 with

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA CAN**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
S3VE	Stage_3_Validation_Electronic		Level 4			
S3VM	Stage_3_Validation_Manual		Level 4			
S3VEM	Stage_3_Validation_Electronic_and_Manual		Level 4			
S4VE	Stage_4_Validation_Electronic		Level 4			
S4VM	Stage_4_Validation_Manual		Level 4			
S4VEM	Stage_4_Validation_Electronic_and_Manual		Level 4			
NV	Not_Validated		N/A			

Data Qualifier Summary

Lab Reporting Batch ID: 240-1619-1 **Laboratory: TA CAN**

EDD Filename: 240-1619-1 ADR.Net **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: LL3SB-413M-0101-SO **Collected:** 6/30/2011 2:24:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 200

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	5000	U	4300	MDL	13000	LOD	ug/Kg	R	Surr
AROCLOR 1221	5000	U	3300	MDL	10000	LOD	ug/Kg	R	Surr
AROCLOR 1232	5000	U	2800	MDL	9100	LOD	ug/Kg	R	Surr
AROCLOR 1242	5000	U	2600	MDL	8100	LOD	ug/Kg	R	Surr
AROCLOR 1248	5000	U	3500	MDL	11000	LOD	ug/Kg	R	Surr
AROCLOR 1254	100000	D	3500	MDL	11000	LOD	ug/Kg	J-	Surr
AROCLOR 1260	5000	U	3500	MDL	11000	LOD	ug/Kg	R	Surr

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: LL3SB-414M-0102-SO **Collected:** 6/29/2011 5:30:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 200

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	19000	D	660	MDL	1300	LOD	ug/Kg	J-	Surr
ACENAPHTHYLENE	660	U	660	MDL	1300	LOD	ug/Kg	R	Surr
ANTHRACENE	31000	D	660	MDL	1300	LOD	ug/Kg	J-	Surr
BENZO(A)ANTHRACENE	63000	D	660	MDL	1300	LOD	ug/Kg	J-	Surr
BENZO(A)PYRENE	47000	D	660	MDL	1300	LOD	ug/Kg	J-	Surr
BENZO(B)FLUORANTHENE	54000	D M	660	MDL	1300	LOD	ug/Kg	J-	Surr
BENZO(G,H,I)PERYLENE	21000	D	660	MDL	1300	LOD	ug/Kg	J-	Surr
BENZO(K)FLUORANTHENE	35000	D M	660	MDL	1300	LOD	ug/Kg	J-	Surr
CHRYSENE	64000	D	220	MDL	1300	LOD	ug/Kg	J-	Surr
DIBENZO(A,H)ANTHRACENE	7200	D	660	MDL	1300	LOD	ug/Kg	J-	Surr
FLUORANTHENE	160000	D	660	MDL	1300	LOD	ug/Kg	J-	Surr
FLUORENE	11000	D	660	MDL	1300	LOD	ug/Kg	J-	Surr
INDENO(1,2,3-CD)PYRENE	21000	D	660	MDL	1300	LOD	ug/Kg	J-	Surr
NAPHTHALENE	11000	D	660	MDL	1300	LOD	ug/Kg	J-	Surr
PHENANTHRENE	96000	D	660	MDL	1300	LOD	ug/Kg	J-	Surr
PYRENE	120000	D	660	MDL	1300	LOD	ug/Kg	J-	Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLs 1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1619-1 **Laboratory: TA CAN**

EDD Filename: 240-1619-1 ADR.Net **eQAPP Name: DoD QSM v4 Master_27May09**

Reason Code Legend

Reason Code	*Description*
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Lower Rejection

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLs 1-4,12

Surrogate Outlier Report

Lab Reporting Batch ID: 240-1619-1 **Laboratory: TA CAN**

EDD Filename: 240-1619-1 ADR.Net **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 8082
Matrix: SO

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
LL3SB-413M-0101-SO	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	0 0	60.00-125.00 60.00-125.00	All Target Analytes	J- (all detects) R (all non-detects)

Method: 8270C
Matrix: SO

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
LL3SB-414M-0102-SO	2-FLUOROBIPHENYL 2-FLUOROPHENOL Nitrobenzene-d5 Terphenyl-d14	0 0 0 0	45.00-105.00 35.00-105.00 35.00-100.00 30.00-125.00	All Target Analytes	J-(all detects) R(all non-detects)
LL3SB-414M-0102-SO	2,4,6-TRIBROMOPHENOL PHENOL-D5	0 0	35.00-125.00 40.00-100.00	All Acid Target Analytes	J-(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 240-1619-1 **Laboratory: TA CAN**

EDD Filename: 240-1619-1 ADR.Net **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 240-1619-1 **Laboratory: TA CAN**

EDD Filename: 240-1619-1 ADR.Net **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.

Method Blank Outlier Report

Lab Reporting Batch ID: 240-1619-1 **Laboratory: TA CAN**

EDD Filename: 240-1619-1 ADR.Net **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: 240-1619-1 **Laboratory: TA CAN**

EDD Filename: 240-1619-1 ADR.Net **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.

Temperature Outliers

Lab Reporting Batch ID: 240-1619-1 **Laboratory: TA CAN**

EDD Filename: 240-1619-1 ADR.Net **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA CAN**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Lab Reporting Batch: 240-1619-2						
Method: 6020						
LL3SB-414M-0101-SO	240-1619-1	SO	N	3050B	6/29/2011 5:30:00 PM	S2AVE
LL3SB-414M-0101-SOMS	240-1619-1MS	SO	MS	3050B	6/29/2011 5:30:00 PM	S2AVE
LL3SB-414M-0101-SOMSD	240-1619-1MSD	SO	MSD	3050B	6/29/2011 5:30:00 PM	S2AVE
LL3SB-414M-0102-SO	240-1619-2	SO	N	3050B	6/29/2011 5:30:00 PM	S2AVE
LL3SB-414M-0103-SO	240-1619-3	SO	N	3050B	6/29/2011 5:30:00 PM	S2AVE

Validation Label Legend

Label Code	Label Decription	EPA Level
S1VE	Stage_1_Validation_Electronic	N/A
S1VM	Stage_1_Validation_Manual	N/A
S1VEM	Stage_1_Validation_Electronic_and_Manual	N/A
S2AVE	Stage_2A_Validation_Electronic	Level 3 w/o calibration
S2AVM	Stage_2A_Validation_Manual	Level 3 w/o calibration
S2AVEM	Stage_2A_Validation_Electronic_and_Manual	Level 3 w/o calibration
S2BVE	Stage_2B_Validation_Electronic	Level 3 with
S2BVM	Stage_2B_Validation_Manual	Level 3 with
S2BVEM	Stage_2B_Validation_Electronic_and_Manual	Level 3 with
S3VE	Stage_3_Validation_Electronic	Level 4
S3VM	Stage_3_Validation_Manual	Level 4
S3VEM	Stage_3_Validation_Electronic_and_Manual	Level 4
S4VE	Stage_4_Validation_Electronic	Level 4
S4VM	Stage_4_Validation_Manual	Level 4
S4VEM	Stage_4_Validation_Electronic_and_Manual	Level 4

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA CAN**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
NV	Not_Validated		N/A			

Data Qualifier Summary

Lab Reporting Batch ID: 240-1619-2 **Laboratory: TA CAN**

EDD Filename: 240-1619-2 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: **LL3SB-414M-0101-SO** ***Collected:*** **6/29/2011 5:30:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	11		0.052	MDL	0.50	LOD	ug/L	J-	Ms

Sample ID: **LL3SB-414M-0102-SO** ***Collected:*** **6/29/2011 5:30:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	7.5		0.050	MDL	0.47	LOD	ug/L	J-	Ms

Sample ID: **LL3SB-414M-0103-SO** ***Collected:*** **6/29/2011 5:30:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	9.5		0.049	MDL	0.47	LOD	ug/L	J-	Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLs 1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1619-2 **Laboratory: TA CAN**

EDD Filename: 240-1619-2 **eQAPP Name: DoD QSM v4 Master_27May09**

Reason Code Legend

Reason Code	*Description*
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Rejection

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLs 1-4,12

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 240-1619-2 **Laboratory: TA CAN**

EDD Filename: 240-1619-2 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: **6020**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
LL3SB-414M-0101-SOMS (TOT) **LL3SB-414M-0101-SOMSD (TOT)** (LL3SB-414M-0101-SO LL3SB-414M-0102-SO LL3SB-414M-0103-SO)	ARSENIC	76	72	80.00-120.00	-	ARSENIC	J- (all detects) R (all non-detects)

Project Name and Number: W912QR-10-P-0037 - LLs 1-4,12

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 240-1619-2 **Laboratory: TA CAN**

EDD Filename: 240-1619-2 **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.

Method Blank Outlier Report

Lab Reporting Batch ID: 240-1619-2 **Laboratory: TA CAN**

EDD Filename: 240-1619-2 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB 240-16917/1-A	9/28/2011 7:53:00 AM	ARSENIC	0.114 ug/L	LL3SB-414M-0101-SO LL3SB-414M-0102-SO LL3SB-414M-0103-SO

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: 240-1619-2 **Laboratory: TA CAN**

EDD Filename: 240-1619-2 **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.

Temperature Outliers

Lab Reporting Batch ID: 240-1619-2 **Laboratory: TA CAN**

EDD Filename: 240-1619-2 **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA SAC**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Lab Reporting Batch: 240-1620-1						
Method: 300.0						
CHASS-0001M-0001-SO	240-1620-4	SO	FD	Gen Prep	6/29/2011 12:30:00 PM	S2AVE
CHASS-0002M-0001-SO	240-1620-5	SO	N	Gen Prep	6/29/2011 12:30:00 PM	S2AVE
Method: 6020						
CHASS-0001M-0001-SO	240-1620-4	SO	FD	3050B	6/29/2011 12:30:00 PM	S2AVE
CHASS-0002M-0001-SO	240-1620-5	SO	N	3050B	6/29/2011 12:30:00 PM	S2AVE
LL3SB-415M-0101-SO	240-1620-1	SO	N	3050B	6/29/2011 1:10:00 PM	S2AVE
LL3SB-415M-0102-SO	240-1620-2	SO	N	3050B	6/29/2011 1:10:00 PM	S2AVE
LL3SB-415M-0103-SO	240-1620-3	SO	N	3050B	6/29/2011 1:10:00 PM	S2AVE
Method: 7196A						
CHASS-0001M-0001-SO	240-1620-4	SO	FD	Gen Prep	6/29/2011 12:30:00 PM	S2AVE
CHASS-0002M-0001-SO	240-1620-5	SO	N	Gen Prep	6/29/2011 12:30:00 PM	S2AVE
Method: 7471A						
CHASS-0001M-0001-SO	240-1620-4	SO	FD	7471A	6/29/2011 12:30:00 PM	S2AVE
CHASS-0002M-0001-SO	240-1620-5	SO	N	7471A	6/29/2011 12:30:00 PM	S2AVE
Method: 8081A						
CHASS-0001M-0001-SO	240-1620-4	SO	FD	3540C	6/29/2011 12:30:00 PM	S2AVE
CHASS-0002M-0001-SO	240-1620-5	SO	N	3540C	6/29/2011 12:30:00 PM	S2AVE
CHASS-0002M-0001-SOMS	240-1620-5MS	SO	MS	3540C	6/29/2011 12:30:00 PM	S2AVE
CHASS-0002M-0001-SOMSD	240-1620-5MSD	SO	MSD	3540C	6/29/2011 12:30:00 PM	S2AVE
Method: 8082						
CHASS-0001M-0001-SO	240-1620-4	SO	FD	3540C	6/29/2011 12:30:00 PM	S2AVE
CHASS-0002M-0001-SO	240-1620-5	SO	N	3540C	6/29/2011 12:30:00 PM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA SAC**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Method: 8260B						
CHASS-0001V-0001-SO	240-1620-6	SO	N	5035	7/7/2011 3:43:00 PM	S2AVE
CHASS-0002V-0001-SO	240-1620-7	SO	N	5035	7/7/2011 3:43:00 PM	S2AVE
Method: 8270C						
CHASS-0001M-0001-SO	240-1620-4	SO	FD	3540C	6/29/2011 12:30:00 PM	S2AVE
CHASS-0002M-0001-SO	240-1620-5	SO	N	3540C	6/29/2011 12:30:00 PM	S2AVE
LL3SB-415M-0101-SO	240-1620-1	SO	N	3540C	6/29/2011 1:10:00 PM	S2AVE
LL3SB-415M-0102-SO	240-1620-2	SO	N	3540C	6/29/2011 1:10:00 PM	S2AVE
LL3SB-415M-0103-SO	240-1620-3	SO	N	3540C	6/29/2011 1:10:00 PM	S2AVE
Method: 8330						
CHASS-0001M-0001-SO	240-1620-4	SO	FD	8330	6/29/2011 12:30:00 PM	S2AVE
CHASS-0001M-0001-SOMS	G1G120502001SMS	SO	MS	8330	6/29/2011 12:30:00 PM	S2AVE
CHASS-0001M-0001-SOMSD	G1G120502001DMSD	SO	MSD	8330	6/29/2011 12:30:00 PM	S2AVE
CHASS-0002M-0001-SO	240-1620-5	SO	N	8330	6/29/2011 12:30:00 PM	S2AVE
Method: 8330 MODIFIED						
CHASS-0001M-0001-SO	240-1620-4	SO	FD	3550A	6/29/2011 12:30:00 PM	S2AVE
CHASS-0002M-0001-SO	240-1620-5	SO	N	3550A	6/29/2011 12:30:00 PM	S2AVE
CHASS-0002M-0001-SOMS	240-1620-5MS	SO	MS	3550A	6/29/2011 12:30:00 PM	S2AVE
CHASS-0002M-0001-SOMSD	240-1620-5MSD	SO	MSD	3550A	6/29/2011 12:30:00 PM	S2AVE

Validation Label Legend

Label Code	Label Decription	EPA Level
S1VE	Stage_1_Validation_Electronic	N/A
S1VM	Stage_1_Validation_Manual	N/A
S1VEM	Stage_1_Validation_Electronic_and_Manual	N/A

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA SAC**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
S2AVE	Stage_2A_Validation_Electronic		Level 3 w/o calibration			
S2AVM	Stage_2A_Validation_Manual		Level 3 w/o calibration			
S2AVEM	Stage_2A_Validation_Electronic_and_Manual		Level 3 w/o calibration			
S2BVE	Stage_2B_Validation_Electronic		Level 3 with			
S2BVM	Stage_2B_Validation_Manual		Level 3 with			
S2BVEM	Stage_2B_Validation_Electronic_and_Manual		Level 3 with			
S3VE	Stage_3_Validation_Electronic		Level 4			
S3VM	Stage_3_Validation_Manual		Level 4			
S3VEM	Stage_3_Validation_Electronic_and_Manual		Level 4			
S4VE	Stage_4_Validation_Electronic		Level 4			
S4VM	Stage_4_Validation_Manual		Level 4			
S4VEM	Stage_4_Validation_Electronic_and_Manual		Level 4			
NV	Not_Validated		N/A			

Data Qualifier Summary

Lab Reporting Batch ID: 240-1620-1 **Laboratory: TA SAC**

EDD Filename: 240-1620-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: CHASS-0001M-0001-SO **Collected:** 6/29/2011 12:30:00 **Analysis Type:** RE2/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.062	J	0.060	MDL	0.19	LOD	mg/Kg	J	RI
COPPER	13		0.11	MDL	0.39	LOD	mg/Kg	J-	Lcs
SODIUM	27	J	14	MDL	97	LOD	mg/Kg	J	RI
THALLIUM	0.099	J	0.055	MDL	0.19	LOD	mg/Kg	J	RI

Sample ID: CHASS-0001M-0001-SO **Collected:** 6/29/2011 12:30:00 **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.042	J	0.0030	MDL	0.19	LOD	mg/Kg	J	RI

Sample ID: CHASS-0002M-0001-SO **Collected:** 6/29/2011 12:30:00 **Analysis Type:** RE2/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.059	J	0.057	MDL	0.19	LOD	mg/Kg	J	RI
COPPER	13		0.10	MDL	0.37	LOD	mg/Kg	J-	Lcs
SODIUM	24	J	13	MDL	93	LOD	mg/Kg	J	RI
THALLIUM	0.088	J	0.052	MDL	0.19	LOD	mg/Kg	J	RI

Sample ID: CHASS-0002M-0001-SO **Collected:** 6/29/2011 12:30:00 **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.052	J	0.0029	MDL	0.19	LOD	mg/Kg	J	RI

Method Category: METALS

Method: 7196A **Matrix: SO**

Sample ID: CHASS-0001M-0001-SO **Collected:** 6/29/2011 12:30:00 **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.27	MDL	0.81	LOD	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLs 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1620-1 **Laboratory: TA SAC**

EDD Filename: 240-1620-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: CHASS-0001M-0001-SO **Collected:** 6/29/2011 12:30:00 **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.020	J	0.011	MDL	0.081	LOD	mg/Kg	J	RI

Sample ID: CHASS-0002M-0001-SO **Collected:** 6/29/2011 12:30:00 **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.017	J	0.0094	MDL	0.067	LOD	mg/Kg	J	RI

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: CHASS-0001M-0001-SO **Collected:** 6/29/2011 12:30:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	1.4	U	0.79	MDL	3.4	LOD	ug/Kg	R	Ms
ALPHA-BHC	2.7	U	1.5	MDL	5.0	LOD	ug/Kg	R	Ms
ALPHA-CHLORDANE	2.7	U	1.9	MDL	6.1	LOD	ug/Kg	R	Ms
GAMMA-CHLORDANE	1.4	U	0.85	MDL	3.4	LOD	ug/Kg	R	Ms

Sample ID: CHASS-0002M-0001-SO **Collected:** 6/29/2011 12:30:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	1.4	U J	0.79	MDL	3.4	LOD	ug/Kg	R	Ms
ALPHA-BHC	2.7	U J	1.5	MDL	5.0	LOD	ug/Kg	R	Ms
ALPHA-CHLORDANE	2.7	U J	1.9	MDL	6.1	LOD	ug/Kg	R	Ms
GAMMA-CHLORDANE	1.4	U J	0.85	MDL	3.4	LOD	ug/Kg	R	Ms

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: CHASS-0001M-0001-SO **Collected:** 6/29/2011 12:30:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL) PHTHALATE	80		19	MDL	50	LOD	ug/Kg	U	Mb
DIETHYL PHTHALATE	21	J	16	MDL	50	LOD	ug/Kg	J	RI
DI-N-BUTYL PHTHALATE	18	J	15	MDL	50	LOD	ug/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLs 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1620-1 **Laboratory: TA SAC**

EDD Filename: 240-1620-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: CHASS-0001M-0001-SO **Collected:** 6/29/2011 12:30:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXACHLOROCYCLOPENTADIENE	27	U	27	MDL	330	LOD	ug/Kg	UJ	Lcs

Sample ID: CHASS-0002M-0001-SO **Collected:** 6/29/2011 12:30:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL) PHTHALATE	81		19	MDL	50	LOD	ug/Kg	U	Mb
DIETHYL PHTHALATE	26	J M	16	MDL	50	LOD	ug/Kg	J	RI
DI-N-BUTYL PHTHALATE	22	J	15	MDL	50	LOD	ug/Kg	J	RI
HEXACHLOROCYCLOPENTADIENE	27	U	27	MDL	330	LOD	ug/Kg	UJ	Lcs

Method Category: SVOA

Method: 8330 **Matrix: SO**

Sample ID: CHASS-0001M-0001-SO **Collected:** 6/29/2011 12:30:00 **Analysis Type:** RES/WET- **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	0.25	U	0.020	MDL	0.25	PQL	mg/kg	UJ	StoE
1,3-DINITROBENZENE	0.25	U	0.050	MDL	0.25	PQL	mg/kg	UJ	StoE
2,4,6-TRINITROTOLUENE	0.25	U	0.020	MDL	0.25	PQL	mg/kg	UJ	StoE
2,4-DINITROTOLUENE	0.25	U	0.020	MDL	0.25	PQL	mg/kg	UJ	StoE
2,6-DINITROTOLUENE	0.25	U	0.030	MDL	0.25	PQL	mg/kg	UJ	StoE
2-AMINO-4,6-DINITROTOLUENE	0.25	U	0.10	MDL	0.25	PQL	mg/kg	UJ	StoE
2-NITROTOLUENE	0.25	U	0.080	MDL	0.25	PQL	mg/kg	UJ	StoE
3-NITROTOLUENE	0.25	U	0.070	MDL	0.25	PQL	mg/kg	UJ	StoE
4-AMINO-2,6-DINITROTOLUENE	0.25	U	0.020	MDL	0.25	PQL	mg/kg	UJ	StoE
4-NITROTOLUENE	0.25	U	0.080	MDL	0.25	PQL	mg/kg	UJ	StoE
HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	0.25	U	0.040	MDL	0.25	PQL	mg/kg	UJ	StoE
METHYL-2,4,6-TRINITROPHENYLNITRAMINE	0.25	U	0.050	MDL	0.25	PQL	mg/kg	UJ	StoE
NITROBENZENE	0.25	U	0.050	MDL	0.25	PQL	mg/kg	UJ	StoE
NITROGLYCERINE	0.50	U	0.13	MDL	0.50	PQL	mg/kg	UJ	StoE
OCTAHYDRO-TETRANITRO-1,3,5,7-TETRAZOCINE	0.25	U	0.030	MDL	0.25	PQL	mg/kg	UJ	StoE
PETN	0.50	U	0.16	MDL	0.50	PQL	mg/kg	UJ	StoE

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLs 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1620-1 **Laboratory: TA SAC**

EDD Filename: 240-1620-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: SVOA

Method: 8330 **Matrix: SO**

Sample ID: CHASS-0002M-0001-SO **Collected:** 6/29/2011 12:30:00 **Analysis Type:** RES/WET- **Dilution:** 0.98

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	0.24	U	0.020	MDL	0.24	PQL	mg/kg	UJ	StoE
1,3-DINITROBENZENE	0.24	U	0.049	MDL	0.24	PQL	mg/kg	UJ	StoE
2,4,6-TRINITROTOLUENE	0.24	U	0.020	MDL	0.24	PQL	mg/kg	UJ	StoE
2,4-DINITROTOLUENE	0.24	U	0.020	MDL	0.24	PQL	mg/kg	UJ	StoE
2,6-DINITROTOLUENE	0.24	U	0.029	MDL	0.24	PQL	mg/kg	UJ	StoE
2-AMINO-4,6-DINITROTOLUENE	0.24	U	0.098	MDL	0.24	PQL	mg/kg	UJ	StoE
2-NITROTOLUENE	0.24	U	0.078	MDL	0.24	PQL	mg/kg	UJ	StoE
3-NITROTOLUENE	0.24	U	0.069	MDL	0.24	PQL	mg/kg	UJ	StoE
4-AMINO-2,6-DINITROTOLUENE	0.24	U	0.020	MDL	0.24	PQL	mg/kg	UJ	StoE
4-NITROTOLUENE	0.24	U	0.078	MDL	0.24	PQL	mg/kg	UJ	StoE
HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	0.24	U	0.039	MDL	0.24	PQL	mg/kg	UJ	StoE
METHYL-2,4,6-TRINITROPHENYLNITRAMINE	0.24	U	0.049	MDL	0.24	PQL	mg/kg	UJ	StoE
NITROBENZENE	0.24	U	0.049	MDL	0.24	PQL	mg/kg	UJ	StoE
NITROGLYCERINE	0.49	U	0.13	MDL	0.49	PQL	mg/kg	UJ	StoE
OCTAHYDRO-TETRANITRO-1,3,5,7-TETRAZOCINE	0.24	U	0.029	MDL	0.24	PQL	mg/kg	UJ	StoE
PETN	0.49	U	0.16	MDL	0.49	PQL	mg/kg	UJ	StoE

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: CHASS-0001V-0001-SO **Collected:** 7/7/2011 3:43:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1-TRICHLOROETHANE	11	U	22	MDL	270	LOD	ug/Kg	UJ	Surr
1,1,2,2-TETRACHLOROETHANE	27	U	9.5	MDL	270	LOD	ug/Kg	UJ	Surr
1,1,2-TRICHLOROETHANE	27	U	13	MDL	270	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHANE	27	U	18	MDL	270	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHENE	27	U	19	MDL	270	LOD	ug/Kg	UJ	Surr
1,2-DIBROMOETHANE	27	U	11	MDL	270	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHANE	27	U	11	MDL	270	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHENE (TOTAL)	8.7	U	8.7	MDL	530	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROPROPANE	11	U	8.7	MDL	270	LOD	ug/Kg	UJ	Surr
2-BUTANONE	110	J	46	MDL	1100	LOD	ug/Kg	J	RI, Surr
2-HEXANONE	53	U	21	MDL	1100	LOD	ug/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLs 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1620-1 **Laboratory: TA SAC**

EDD Filename: 240-1620-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **VOA**

Method: **8260B** ***Matrix:*** **SO**

Sample ID: **CHASS-0001V-0001-SO** ***Collected:*** **7/7/2011 3:43:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-METHYL-2-PENTANONE	110	U	51	MDL	1100	LOD	ug/Kg	UJ	Surr
ACETONE	210	U	180	MDL	1100	LOD	ug/Kg	UJ	Surr
BENZENE	27	U	13	MDL	270	LOD	ug/Kg	UJ	Surr
BROMOCHLOROMETHANE	27	U	14	MDL	270	LOD	ug/Kg	UJ	Surr
BROMODICHLOROMETHANE	27	U	11	MDL	270	LOD	ug/Kg	UJ	Surr
BROMOFORM	27	U	20	MDL	270	LOD	ug/Kg	UJ	Surr
BROMOMETHANE	53	U	31	MDL	270	LOD	ug/Kg	UJ	Surr
CARBON DISULFIDE	27	U	13	MDL	270	LOD	ug/Kg	UJ	Surr
CARBON TETRACHLORIDE	11	U	6.8	MDL	270	LOD	ug/Kg	UJ	Surr
CHLOROBENZENE	11	U	6.8	MDL	270	LOD	ug/Kg	UJ	Surr
CHLOROETHANE	110	U	65	MDL	270	LOD	ug/Kg	UJ	Surr
CHLOROFORM	27	U	9.4	MDL	270	LOD	ug/Kg	UJ	Surr
CHLOROMETHANE	27	U	15	MDL	270	LOD	ug/Kg	UJ	Surr
CIS-1,2-DICHLOROETHENE	11	U	7.3	MDL	270	LOD	ug/Kg	UJ	Surr
CIS-1,3-DICHLOROPROPENE	11	U	8.4	MDL	270	LOD	ug/Kg	UJ	Surr
DIBROMOCHLOROMETHANE	27	U	13	MDL	270	LOD	ug/Kg	UJ	Surr
ETHYL BENZENE	11	U	5.8	MDL	270	LOD	ug/Kg	UJ	Surr
METHYLENE CHLORIDE	83	J	82	MDL	270	LOD	ug/Kg	J	RI, Surr
STYRENE	11	U	6.0	MDL	270	LOD	ug/Kg	UJ	Surr
TETRACHLOROETHENE	27	U	13	MDL	270	LOD	ug/Kg	UJ	Surr
TOLUENE	27	U	18	MDL	270	LOD	ug/Kg	UJ	Surr
TOTAL XYLENES	32	U	8.6	MDL	530	LOD	ug/Kg	UJ	Surr
TRANS-1,2-DICHLOROETHENE	27	U	9.8	MDL	270	LOD	ug/Kg	UJ	Surr
TRANS-1,3-DICHLOROPROPENE	27	U	21	MDL	270	LOD	ug/Kg	UJ	Surr
TRICHLOROETHENE	27	U	10	MDL	270	LOD	ug/Kg	UJ	Surr
VINYL CHLORIDE	27	U	19	MDL	270	LOD	ug/Kg	UJ	Surr

Sample ID: **CHASS-0002V-0001-SO** ***Collected:*** **7/7/2011 3:43:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1-TRICHLOROETHANE	11	U	24	MDL	280	LOD	ug/Kg	UJ	Surr
1,1,2,2-TETRACHLOROETHANE	28	U	10	MDL	280	LOD	ug/Kg	UJ	Surr
1,1,2-TRICHLOROETHANE	28	U	14	MDL	280	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHANE	28	U	19	MDL	280	LOD	ug/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLs 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1620-1 **Laboratory: TA SAC**

EDD Filename: 240-1620-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **VOA**

Method: **8260B** ***Matrix:*** **SO**

Sample ID: **CHASS-0002V-0001-SO** ***Collected:*** **7/7/2011 3:43:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,1-DICHLOROETHENE	28	U	20	MDL	280	LOD	ug/Kg	UJ	Surr
1,2-DIBROMOETHANE	28	U	11	MDL	280	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHANE	28	U	11	MDL	280	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHENE (TOTAL)	9.3	U	9.3	MDL	570	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROPROPANE	11	U	9.3	MDL	280	LOD	ug/Kg	UJ	Surr
2-BUTANONE	110	U	49	MDL	1100	LOD	ug/Kg	UJ	Surr
2-HEXANONE	57	U	23	MDL	1100	LOD	ug/Kg	UJ	Surr
4-METHYL-2-PENTANONE	110	U	54	MDL	1100	LOD	ug/Kg	UJ	Surr
ACETONE	230	U	190	MDL	1100	LOD	ug/Kg	UJ	Surr
BENZENE	28	U	14	MDL	280	LOD	ug/Kg	UJ	Surr
BROMOCHLOROMETHANE	28	U	15	MDL	280	LOD	ug/Kg	UJ	Surr
BROMODICHLOROMETHANE	28	U	11	MDL	280	LOD	ug/Kg	UJ	Surr
BROMOFORM	28	U	22	MDL	280	LOD	ug/Kg	UJ	Surr
BROMOMETHANE	57	U	33	MDL	280	LOD	ug/Kg	UJ	Surr
CARBON DISULFIDE	28	U	14	MDL	280	LOD	ug/Kg	UJ	Surr
CARBON TETRACHLORIDE	11	U	7.2	MDL	280	LOD	ug/Kg	UJ	Surr
CHLOROBENZENE	11	U	7.2	MDL	280	LOD	ug/Kg	UJ	Surr
CHLOROETHANE	110	U	69	MDL	280	LOD	ug/Kg	UJ	Surr
CHLOROFORM	28	U	10	MDL	280	LOD	ug/Kg	UJ	Surr
CHLOROMETHANE	28	U	16	MDL	280	LOD	ug/Kg	UJ	Surr
CIS-1,2-DICHLOROETHENE	11	U	7.8	MDL	280	LOD	ug/Kg	UJ	Surr
CIS-1,3-DICHLOROPROPENE	11	U	8.9	MDL	280	LOD	ug/Kg	UJ	Surr
DIBROMOCHLOROMETHANE	28	U	14	MDL	280	LOD	ug/Kg	UJ	Surr
ETHYL BENZENE	11	U	6.1	MDL	280	LOD	ug/Kg	UJ	Surr
METHYLENE CHLORIDE	110	U	87	MDL	280	LOD	ug/Kg	UJ	Surr
STYRENE	11	U	6.3	MDL	280	LOD	ug/Kg	UJ	Surr
TETRACHLOROETHENE	28	U	14	MDL	280	LOD	ug/Kg	UJ	Surr
TOLUENE	28	U	19	MDL	280	LOD	ug/Kg	UJ	Surr
TOTAL XYLENES	34	U	9.2	MDL	570	LOD	ug/Kg	UJ	Surr
TRANS-1,2-DICHLOROETHENE	28	U	10	MDL	280	LOD	ug/Kg	UJ	Surr
TRANS-1,3-DICHLOROPROPENE	28	U	23	MDL	280	LOD	ug/Kg	UJ	Surr
TRICHLOROETHENE	28	U	11	MDL	280	LOD	ug/Kg	UJ	Surr
VINYL CHLORIDE	28	U	20	MDL	280	LOD	ug/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLs 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1620-1 **Laboratory: TA SAC**

EDD Filename: 240-1620-1 **eQAPP Name: DoD QSM v4 Master_27May09**

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLs 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1620-1 **Laboratory: TA SAC**

EDD Filename: 240-1620-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Reason Code Legend

Reason Code	*Description*
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Lower Rejection
Mb	Method Blank Contamination
Ms	Matrix Spike Upper Estimation
Ms	Matrix Spike Upper Rejection
RI	Reporting Limit Trace Value
StoE	Sampling to Extraction Estimation
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation

* denotes a non-reportable result

Field Duplicate RPD Report

Lab Reporting Batch ID: 240-1620-1 **Laboratory: TA SAC**

EDD Filename: 240-1620-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	CHASS-0002M-0001-SO (TOT)	CHASS-0001M-0001-SO (TOT)			
ALUMINUM	4700	4900	4	50.00	
ANTIMONY	0.059	0.062	5	50.00	
ARSENIC	8.4	8.1	4	50.00	
BARIUM	28	27	4	50.00	
BERYLLIUM	0.28	0.28	0	50.00	
CADMIUM	0.052	0.042	21	50.00	
CALCIUM	630	640	2	50.00	
CHROMIUM	9.8	11	12	50.00	
COBALT	4.7	5.2	10	50.00	
COPPER	13	13	0	50.00	
IRON	15000	15000	0	50.00	No Qualifiers Applied
LEAD	8.2	8.3	1	50.00	
MAGNESIUM	1200	1300	8	50.00	
MANGANESE	220	220	0	50.00	
NICKEL	13	14	7	50.00	
POTASSIUM	540	590	9	50.00	
SELENIUM	0.70	0.75	7	50.00	
SODIUM	24	27	12	50.00	
THALLIUM	0.088	0.099	12	50.00	
VANADIUM	9.7	10	3	50.00	
ZINC	42	40	5	50.00	

Method: 7196A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	CHASS-0002M-0001-SO (TOT)	CHASS-0001M-0001-SO (TOT)			
HEXAVALENT CHROMIUM	0.81 U	0.32	200	50.00	No Qualifiers Applied

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	CHASS-0002M-0001-SO (TOT)	CHASS-0001M-0001-SO (TOT)			
MERCURY	0.017	0.020	16	50.00	No Qualifiers Applied

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	CHASS-0002M-0001-SO	CHASS-0001M-0001-SO			
BIS(2-ETHYLHEXYL) PHTHALATE	81	80	1	50.00	
DIETHYL PHTHALATE	26	21	21	50.00	
DI-N-BUTYL PHTHALATE	22	18	20	50.00	No Qualifiers Applied
PHENANTHRENE	7.3	6.7 U	200	50.00	

Surrogate Outlier Report

Lab Reporting Batch ID: 240-1620-1 **Laboratory: TA SAC**

EDD Filename: 240-1620-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: **8260B**
Matrix: **SO**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
CHASS-0001V-0001-SO	1,2-DICHLOROETHANE-D4	78	85.00-120.00	All Target Analytes	J- (all detects) UJ (all non-detects)
	4-Bromofluorobenzene	71	85.00-120.00		
	DIBROMOFLUOROMETHANE	65	85.00-120.00		
	TOLUENE-D8	71	85.00-115.00		
CHASS-0002V-0001-SO	1,2-DICHLOROETHANE-D4	71	85.00-120.00	All Target Analytes	J-(all detects) UJ(all non-detects)
	4-Bromofluorobenzene	64	85.00-120.00		
	DIBROMOFLUOROMETHANE	59	85.00-120.00		
	TOLUENE-D8	65	85.00-115.00		

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 240-1620-1 **Laboratory: TA SAC**

EDD Filename: 240-1620-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: **8081A**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
CHASS-0002M-0001-SOMS (CHASS-0001M-0001-SO CHASS-0002M-0001-SO)	ALDRIN	144	-	45.00-140.00	-	ALDRIN	J+ (all detects)
	BETA-BHC	127	-	60.00-125.00	-	BETA-BHC	
	DELTA-BHC	138	-	55.00-130.00	-	DELTA-BHC	
	DIELDRIN	127	-	65.00-125.00	-	DIELDRIN	
	GAMMA-BHC	127	-	60.00-125.00	-	GAMMA-BHC	
	HEPTACHLOR EPOXIDE	137	-	65.00-130.00	-	HEPTACHLOR EPOXIDE	
CHASS-0002M-0001-SOMS **CHASS-0002M-0001-SOMSD** (CHASS-0001M-0001-SO CHASS-0002M-0001-SO)	4,4'-DDE	142	130	70.00-125.00	-	4,4'-DDE	J+(all detects) R(all non-detects)
	ALPHA-BHC	139	134	60.00-125.00	-	ALPHA-BHC	
	ALPHA-CHLORDANE	142	128	65.00-120.00	-	ALPHA-CHLORDANE	
	GAMMA-CHLORDANE	137	128	65.00-125.00	-	GAMMA-CHLORDANE	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 240-1620-1 **Laboratory: TA SAC**

EDD Filename: 240-1620-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS 240-8076/15-A (CHASS-0001M-0001-SO CHASS-0002M-0001-SO LL3SB-415M-0101-SO LL3SB-415M-0102-SO LL3SB-415M-0103-SO)	HEXACHLOROCYCLOPENTADI	26	-	45.00-110.00	-	HEXACHLOROCYCLOPENTAD	J- (all detects) UJ (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS 240-8611/2-A (TOT) (CHASS-0001M-0001-SO CHASS-0002M-0001-SO LL3SB-415M-0101-SO LL3SB-415M-0102-SO LL3SB-415M-0103-SO)	COPPER	-	-	80.00-120.00	-	COPPER	J-(all detects) R(all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: 240-1620-1 **Laboratory: TA SAC**

EDD Filename: 240-1620-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB 240-8611/1-A	8/25/2011 10:08:00 PM	NICKEL	0.103 mg/Kg	CHASS-0001M-0001-SO CHASS-0002M-0001-SO LL3SB-415M-0101-SO LL3SB-415M-0102-SO LL3SB-415M-0103-SO

Method: **8270C**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB 240-8076/14-A	7/31/2011 11:30:00 AM	BIS(2-ETHYLHEXYL) PHTHALATE	23.2 ug/Kg	CHASS-0001M-0001-SO CHASS-0002M-0001-SO LL3SB-415M-0101-SO LL3SB-415M-0102-SO LL3SB-415M-0103-SO

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
CHASS-0001M-0001-SO(RES)	BIS(2-ETHYLHEXYL) PHTHALATE	80 ug/Kg	80U ug/Kg
CHASS-0002M-0001-SO(RES)	BIS(2-ETHYLHEXYL) PHTHALATE	81 ug/Kg	81U ug/Kg

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: 240-1620-1 **Laboratory: TA SAC**

EDD Filename: 240-1620-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 8330 **Preparation Method: 8330**

Matrix: SO

Sample ID	Type	Actual	Criteria	Units	Flag
CHASS-0001M-0001-SO (RES/WET	Sampling To Extraction	15.00	14.00	DAYS	J- (all detects)
CHASS-0001M-0001-SOMS (RES/		15.00	14.00	DAYS	UJ (all non-detects)
CHASS-0001M-0001-SOMSD (RES/		15.00	14.00	DAYS	
CHASS-0002M-0001-SO (RES/WET		15.00	14.00	DAYS	

Temperature Outliers

Lab Reporting Batch ID: 240-1620-1 **Laboratory: TA SAC**

EDD Filename: 240-1620-1 **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA CAN**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Lab Reporting Batch: 240-1650-1						
Method: 8082						
LL2SB-513M-0101-SO	240-1650-7	SO	N	3540C	7/1/2011 1:18:00 PM	S2AVE
LL2SB-513M-0102-SO	240-1650-8	SO	N	3540C	7/1/2011 1:18:00 PM	S2AVE
LL2SB-513M-0103-SO	240-1650-9	SO	N	3540C	7/1/2011 1:18:00 PM	S2AVE
LL2SB-513M-0103-SOMS	240-1650-9MS	SO	MS	3540C	7/1/2011 1:18:00 PM	S2AVE
LL2SB-513M-0103-SOMSD	240-1650-9MSD	SO	MSD	3540C	7/1/2011 1:18:00 PM	S2AVE
LL2SB-514M-0101-SO	240-1650-1	SO	N	3540C	7/1/2011 9:45:00 AM	S2AVE
LL2SB-514M-0102-SO	240-1650-2	SO	N	3540C	7/1/2011 9:45:00 AM	S2AVE
LL2SB-514M-0103-SO	240-1650-3	SO	N	3540C	7/1/2011 9:45:00 AM	S2AVE
LL2SB-515M-0101-SO	240-1650-4	SO	N	3540C	7/1/2011 10:50:00 AM	S2AVE
LL2SB-515M-0102-SO	240-1650-5	SO	N	3540C	7/1/2011 10:50:00 AM	S2AVE
LL2SB-515M-0103-SO	240-1650-6	SO	N	3540C	7/1/2011 10:50:00 AM	S2AVE
Method: 8270C						
LL2SB-513M-0101-SO	240-1650-7	SO	N	3540C	7/1/2011 1:18:00 PM	S2AVE
LL2SB-513M-0102-SO	240-1650-8	SO	N	3540C	7/1/2011 1:18:00 PM	S2AVE
LL2SB-513M-0102-SOMS	240-1650-8MS	SO	MS	3540C	7/1/2011 1:18:00 PM	S2AVE
LL2SB-513M-0102-SOMSD	240-1650-8MSD	SO	MSD	3540C	7/1/2011 1:18:00 PM	S2AVE
LL2SB-513M-0103-SO	240-1650-9	SO	N	3540C	7/1/2011 1:18:00 PM	S2AVE
LL2SB-514M-0101-SO	240-1650-1	SO	N	3540C	7/1/2011 9:45:00 AM	S2AVE
LL2SB-514M-0102-SO	240-1650-2	SO	N	3540C	7/1/2011 9:45:00 AM	S2AVE
LL2SB-514M-0103-SO	240-1650-3	SO	N	3540C	7/1/2011 9:45:00 AM	S2AVE
LL2SB-515M-0101-SO	240-1650-4	SO	N	3540C	7/1/2011 10:50:00 AM	S2AVE
LL2SB-515M-0102-SO	240-1650-5	SO	N	3540C	7/1/2011 10:50:00 AM	S2AVE
LL2SB-515M-0103-SO	240-1650-6	SO	N	3540C	7/1/2011 10:50:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA CAN**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code

Validation Label Legend

Label Code	Label Decription	EPA Level
S1VE	Stage_1_Validation_Electronic	N/A
S1VM	Stage_1_Validation_Manual	N/A
S1VEM	Stage_1_Validation_Electronic_and_Manual	N/A
S2AVE	Stage_2A_Validation_Electronic	Level 3 w/o calibration
S2AVM	Stage_2A_Validation_Manual	Level 3 w/o calibration
S2AVEM	Stage_2A_Validation_Electronic_and_Manual	Level 3 w/o calibration
S2BVE	Stage_2B_Validation_Electronic	Level 3 with
S2BVM	Stage_2B_Validation_Manual	Level 3 with
S2BVEM	Stage_2B_Validation_Electronic_and_Manual	Level 3 with
S3VE	Stage_3_Validation_Electronic	Level 4
S3VM	Stage_3_Validation_Manual	Level 4
S3VEM	Stage_3_Validation_Electronic_and_Manual	Level 4
S4VE	Stage_4_Validation_Electronic	Level 4
S4VM	Stage_4_Validation_Manual	Level 4
S4VEM	Stage_4_Validation_Electronic_and_Manual	Level 4
NV	Not_Validated	N/A

Data Qualifier Summary

Lab Reporting Batch ID: 240-1650-1 **Laboratory: TA CAN**

EDD Filename: 240-1650-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: LL2SB-513M-0103-SO **Collected:** 7/1/2011 1:18:00 PM **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	35	J	17	MDL	56	LOD	ug/Kg	J	RI

Sample ID: LL2SB-514M-0102-SO **Collected:** 7/1/2011 9:45:00 AM **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	46	J	17	MDL	56	LOD	ug/Kg	J	RI

Sample ID: LL2SB-515M-0102-SO **Collected:** 7/1/2011 10:50:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	50	U	43	MDL	130	LOD	ug/Kg	R	Surr
AROCLOR 1221	50	U	33	MDL	100	LOD	ug/Kg	R	Surr
AROCLOR 1232	50	U	28	MDL	92	LOD	ug/Kg	R	Surr
AROCLOR 1242	50	U	26	MDL	81	LOD	ug/Kg	R	Surr
AROCLOR 1248	650		35	MDL	110	LOD	ug/Kg	J+	Surr
AROCLOR 1254	50	U	35	MDL	110	LOD	ug/Kg	R	Surr
AROCLOR 1260	390		35	MDL	110	LOD	ug/Kg	J+	Surr

Sample ID: LL2SB-515M-0103-SO **Collected:** 7/1/2011 10:50:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	48	J	17	MDL	55	LOD	ug/Kg	J	RI

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: LL2SB-514M-0101-SO **Collected:** 7/1/2011 9:45:00 AM **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	3.4	U H	3.4	MDL	6.8	LOD	ug/Kg	R	StoE
ACENAPHTHYLENE	3.4	U H	3.4	MDL	6.8	LOD	ug/Kg	R	StoE
ANTHRACENE	3.4	U H	3.4	MDL	6.8	LOD	ug/Kg	R	StoE
BENZO(A)ANTHRACENE	15	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
BENZO(A)PYRENE	17	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
BENZO(B)FLUORANTHENE	30	M H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1650-1 **Laboratory: TA CAN**

EDD Filename: 240-1650-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: LL2SB-514M-0101-SO **Collected:** 7/1/2011 9:45:00 AM **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	17	M H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
BENZO(K)FLUORANTHENE	13	M H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
CHRYSENE	23	H	1.1	MDL	6.8	LOD	ug/Kg	J-	StoE
FLUORANTHENE	35	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
FLUORENE	3.4	U H	3.4	MDL	6.8	LOD	ug/Kg	R	StoE
INDENO(1,2,3-CD)PYRENE	12	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
NAPHTHALENE	3.4	U H	3.4	MDL	6.8	LOD	ug/Kg	R	StoE
PHENANTHRENE	15	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
PYRENE	28	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE

Sample ID: LL2SB-514M-0102-SO **Collected:** 7/1/2011 9:45:00 AM **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	3.3	U H	3.3	MDL	6.8	LOD	ug/Kg	R	StoE
ACENAPHTHYLENE	3.3	U H	3.3	MDL	6.8	LOD	ug/Kg	R	StoE
ANTHRACENE	3.3	U H	3.3	MDL	6.8	LOD	ug/Kg	R	StoE
BENZO(A)ANTHRACENE	3.3	U H	3.3	MDL	6.8	LOD	ug/Kg	R	StoE
BENZO(A)PYRENE	3.3	U H	3.3	MDL	6.8	LOD	ug/Kg	R	StoE
BENZO(B)FLUORANTHENE	3.3	U H	3.3	MDL	6.8	LOD	ug/Kg	R	StoE
BENZO(G,H,I)PERYLENE	3.3	U H	3.3	MDL	6.8	LOD	ug/Kg	R	StoE
BENZO(K)FLUORANTHENE	3.3	U H	3.3	MDL	6.8	LOD	ug/Kg	R	StoE
CHRYSENE	3.3	U H	1.1	MDL	6.8	LOD	ug/Kg	R	StoE
FLUORANTHENE	3.3	U H	3.3	MDL	6.8	LOD	ug/Kg	R	StoE
FLUORENE	3.3	U H	3.3	MDL	6.8	LOD	ug/Kg	R	StoE
INDENO(1,2,3-CD)PYRENE	3.3	U H	3.3	MDL	6.8	LOD	ug/Kg	R	StoE
NAPHTHALENE	3.3	U H	3.3	MDL	6.8	LOD	ug/Kg	R	StoE
PHENANTHRENE	9.0	H	3.3	MDL	6.8	LOD	ug/Kg	J-	StoE
PYRENE	3.3	U H	3.3	MDL	6.8	LOD	ug/Kg	R	StoE

Sample ID: LL2SB-514M-0103-SO **Collected:** 7/1/2011 9:45:00 AM **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	3.3	U H	3.3	MDL	6.8	LOD	ug/Kg	R	StoE
ACENAPHTHYLENE	3.3	U H	3.3	MDL	6.8	LOD	ug/Kg	R	StoE
ANTHRACENE	3.3	U H	3.3	MDL	6.8	LOD	ug/Kg	R	StoE

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1650-1 **Laboratory: TA CAN**

EDD Filename: 240-1650-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8270C** ***Matrix:*** **SO**

Sample ID: **LL2SB-514M-0103-SO** ***Collected:*** **7/1/2011 9:45:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	3.3	U H	3.3	MDL	6.8	LOD	ug/Kg	R	StoE
BENZO(A)PYRENE	8.0	H	3.3	MDL	6.8	LOD	ug/Kg	J-	StoE
BENZO(B)FLUORANTHENE	12	M H	3.3	MDL	6.8	LOD	ug/Kg	J-	StoE
BENZO(G,H,I)PERYLENE	22	M H	3.3	MDL	6.8	LOD	ug/Kg	J-	StoE
BENZO(K)FLUORANTHENE	3.3	U H	3.3	MDL	6.8	LOD	ug/Kg	R	StoE
CHRYSENE	11	H	1.1	MDL	6.8	LOD	ug/Kg	J-	StoE
FLUORANTHENE	13	H	3.3	MDL	6.8	LOD	ug/Kg	J-	StoE
FLUORENE	3.3	U H	3.3	MDL	6.8	LOD	ug/Kg	R	StoE
INDENO(1,2,3-CD)PYRENE	7.8	M H	3.3	MDL	6.8	LOD	ug/Kg	J-	StoE
NAPHTHALENE	9.9	H	3.3	MDL	6.8	LOD	ug/Kg	J-	StoE
PHENANTHRENE	22	H	3.3	MDL	6.8	LOD	ug/Kg	J-	StoE
PYRENE	15	H	3.3	MDL	6.8	LOD	ug/Kg	J-	StoE

Sample ID: **LL2SB-515M-0101-SO** ***Collected:*** **7/1/2011 10:50:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	9.0	M H	3.3	MDL	6.8	LOD	ug/Kg	J-	StoE
ACENAPHTHYLENE	11	H	3.3	MDL	6.8	LOD	ug/Kg	J-	StoE
ANTHRACENE	19	H	3.3	MDL	6.8	LOD	ug/Kg	J-	StoE
BENZO(A)ANTHRACENE	87	H	3.3	MDL	6.8	LOD	ug/Kg	J-	StoE
BENZO(A)PYRENE	96	H	3.3	MDL	6.8	LOD	ug/Kg	J-	StoE
BENZO(B)FLUORANTHENE	170	M H	3.3	MDL	6.8	LOD	ug/Kg	J-	StoE
BENZO(G,H,I)PERYLENE	65	M H	3.3	MDL	6.8	LOD	ug/Kg	J-	StoE
BENZO(K)FLUORANTHENE	64	M H	3.3	MDL	6.8	LOD	ug/Kg	J-	StoE
CHRYSENE	160	H	1.1	MDL	6.8	LOD	ug/Kg	J-	StoE
FLUORANTHENE	250	H	3.3	MDL	6.8	LOD	ug/Kg	J-	StoE
FLUORENE	8.4	H	3.3	MDL	6.8	LOD	ug/Kg	J-	StoE
INDENO(1,2,3-CD)PYRENE	52	H	3.3	MDL	6.8	LOD	ug/Kg	J-	StoE
NAPHTHALENE	3.3	U H	3.3	MDL	6.8	LOD	ug/Kg	R	StoE
PHENANTHRENE	56	H	3.3	MDL	6.8	LOD	ug/Kg	J-	StoE
PYRENE	210	H	3.3	MDL	6.8	LOD	ug/Kg	J-	StoE

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1650-1 **Laboratory: TA CAN**

EDD Filename: 240-1650-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: LL2SB-515M-0102-SO **Collected:** 7/1/2011 10:50:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	10	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
ACENAPHTHYLENE	3.4	U H	3.4	MDL	6.8	LOD	ug/Kg	R	StoE
ANTHRACENE	14	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
BENZO(A)ANTHRACENE	22	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
BENZO(A)PYRENE	25	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
BENZO(B)FLUORANTHENE	58	M H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
BENZO(G,H,I)PERYLENE	20	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
BENZO(K)FLUORANTHENE	30	M H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
CHRYSENE	67	H	1.1	MDL	6.8	LOD	ug/Kg	J-	StoE
FLUORANTHENE	220	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
FLUORENE	14	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
INDENO(1,2,3-CD)PYRENE	15	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
NAPHTHALENE	8.5	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
PHENANTHRENE	180	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
PYRENE	150	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE

Sample ID: LL2SB-515M-0103-SO **Collected:** 7/1/2011 10:50:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	16	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
ACENAPHTHYLENE	3.4	U H	3.4	MDL	6.8	LOD	ug/Kg	R	StoE
ANTHRACENE	3.4	U H	3.4	MDL	6.8	LOD	ug/Kg	R	StoE
BENZO(A)ANTHRACENE	3.4	U H	3.4	MDL	6.8	LOD	ug/Kg	R	StoE
BENZO(A)PYRENE	8.3	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
BENZO(B)FLUORANTHENE	9.9	M H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
BENZO(G,H,I)PERYLENE	20	M H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
BENZO(K)FLUORANTHENE	3.4	U H	3.4	MDL	6.8	LOD	ug/Kg	R	StoE
CHRYSENE	9.7	H	1.1	MDL	6.8	LOD	ug/Kg	J-	StoE
FLUORANTHENE	15	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
FLUORENE	3.4	U H	3.4	MDL	6.8	LOD	ug/Kg	R	StoE
INDENO(1,2,3-CD)PYRENE	3.4	U H	3.4	MDL	6.8	LOD	ug/Kg	R	StoE
NAPHTHALENE	14	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
PHENANTHRENE	15	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE
PYRENE	14	H	3.4	MDL	6.8	LOD	ug/Kg	J-	StoE

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1650-1 **Laboratory: TA CAN**

EDD Filename: 240-1650-1 **eQAPP Name: DoD QSM v4 Master_27May09**

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1650-1 **Laboratory: TA CAN**

EDD Filename: 240-1650-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Reason Code Legend

Reason Code	*Description*
RI	Reporting Limit Trace Value
StoE	Sampling to Extraction Rejection
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Rejection

Surrogate Outlier Report

Lab Reporting Batch ID: 240-1650-1 **Laboratory: TA CAN**

EDD Filename: 240-1650-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 8082
Matrix: SO

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
LL2SB-515M-0102-SO	DECACHLOROBIPHENYL	176	60.00-125.00	All Target Analytes	J+ (all detects) R (all non-detects)

Method: 8270C
Matrix: SO

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
LL2SB-515M-0103-SO	2-FLUOROBIPHENYL	35	45.00-105.00	No Affected Compounds	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 240-1650-1 **Laboratory: TA CAN**

EDD Filename: 240-1650-1 **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.

Method Blank Outlier Report

Lab Reporting Batch ID: 240-1650-1 **Laboratory: TA CAN**

EDD Filename: 240-1650-1 **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: 240-1650-1 **Laboratory: TA CAN**

EDD Filename: 240-1650-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 8270C **Preparation Method: 3540C**

Matrix: SO

Sample ID	Type	Actual	Criteria	Units	Flag
LL2SB-514M-0101-SO (RES)	Sampling To Extraction	38.00	14.00	DAYS	J- (all detects)
LL2SB-514M-0101-SO (RES)		38.00	14.00	DAYS	R (all non-detects)
LL2SB-514M-0102-SO (RES)		38.00	14.00	DAYS	
LL2SB-514M-0102-SO (RES)		38.00	14.00	DAYS	
LL2SB-514M-0103-SO (RES)		38.00	14.00	DAYS	
LL2SB-514M-0103-SO (RES)		38.00	14.00	DAYS	
LL2SB-515M-0101-SO (RES)		38.00	14.00	DAYS	
LL2SB-515M-0101-SO (RES)		38.00	14.00	DAYS	
LL2SB-515M-0102-SO (RES)		38.00	14.00	DAYS	
LL2SB-515M-0102-SO (RES)		38.00	14.00	DAYS	
LL2SB-515M-0103-SO (RES)		38.00	14.00	DAYS	
LL2SB-515M-0103-SO (RES)		38.00	14.00	DAYS	

Temperature Outliers

Lab Reporting Batch ID: 240-1650-1 **Laboratory: TA CAN**

EDD Filename: 240-1650-1 **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA SAC**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Lab Reporting Batch: 240-1653-1						
Method: 300.0						
EQUIP RINSATE 1	240-1653-1	AQ	N	Gen Prep	7/1/2011 1:00:00 PM	S2AVE
EQUIP RINSATE 1MS	240-1653-1MS	AQ	MS	Gen Prep	7/1/2011 1:00:00 PM	S2AVE
EQUIP RINSATE 1MSD	240-1653-1MSD	AQ	MSD	Gen Prep	7/1/2011 1:00:00 PM	S2AVE
Method: 6020						
EQUIP RINSATE 1	240-1653-1	AQ	N	3005A	7/1/2011 1:00:00 PM	S2AVE
EQUIP RINSATE 1MS	240-1653-1MS	AQ	MS	3005A	7/1/2011 1:00:00 PM	S2AVE
EQUIP RINSATE 1MSD	240-1653-1MSD	AQ	MSD	3005A	7/1/2011 1:00:00 PM	S2AVE
Method: 7196A						
EQUIP RINSATE 1	240-1653-1	AQ	N	Gen Prep	7/1/2011 1:00:00 PM	S2AVE
EQUIP RINSATE 1MS	240-1653-1MS	AQ	MS	Gen Prep	7/1/2011 1:00:00 PM	S2AVE
EQUIP RINSATE 1MSD	240-1653-1MSD	AQ	MSD	Gen Prep	7/1/2011 1:00:00 PM	S2AVE
Method: 7470A						
EQUIP RINSATE 1	240-1653-1	AQ	N	7470A	7/1/2011 1:00:00 PM	S2AVE
Method: 8081A						
EQUIP RINSATE 1	240-1653-1	AQ	N	3520C	7/1/2011 1:00:00 PM	S2AVE
Method: 8082						
EQUIP RINSATE 1	240-1653-1	AQ	N	3520C	7/1/2011 1:00:00 PM	S2AVE
Method: 8270C						
EQUIP RINSATE 1	240-1653-1	AQ	N	3520C	7/1/2011 1:00:00 PM	S2AVE
Method: 8330						
EQUIP RINSATE 1	240-1653-1	AQ	N	3535	7/1/2011 1:00:00 PM	S2AVE
Method: 8330 MODIFIED						
EQUIP RINSATE 1	240-1653-1	AQ	N	FILTRATION	7/1/2011 1:00:00 PM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA SAC**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Method: 8330 MODIFIED						
EQUIP RINSATE 1MS	240-1653-1MS	AQ	MS	FILTRATION	7/1/2011 1:00:00 PM	S2AVE
EQUIP RINSATE 1MSD	240-1653-1MSD	AQ	MSD	FILTRATION	7/1/2011 1:00:00 PM	S2AVE

Validation Label Legend

Label Code	Label Decription	EPA Level
S1VE	Stage_1_Validation_Electronic	N/A
S1VM	Stage_1_Validation_Manual	N/A
S1VEM	Stage_1_Validation_Electronic_and_Manual	N/A
S2AVE	Stage_2A_Validation_Electronic	Level 3 w/o calibration
S2AVM	Stage_2A_Validation_Manual	Level 3 w/o calibration
S2AVEM	Stage_2A_Validation_Electronic_and_Manual	Level 3 w/o calibration
S2BVE	Stage_2B_Validation_Electronic	Level 3 with
S2BVM	Stage_2B_Validation_Manual	Level 3 with
S2BVEM	Stage_2B_Validation_Electronic_and_Manual	Level 3 with
S3VE	Stage_3_Validation_Electronic	Level 4
S3VM	Stage_3_Validation_Manual	Level 4
S3VEM	Stage_3_Validation_Electronic_and_Manual	Level 4
S4VE	Stage_4_Validation_Electronic	Level 4
S4VM	Stage_4_Validation_Manual	Level 4
S4VEM	Stage_4_Validation_Electronic_and_Manual	Level 4
NV	Not_Validated	N/A

Data Qualifier Summary

Lab Reporting Batch ID: 240-1653-1 **Laboratory: TA SAC**

EDD Filename: 240-1653-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **AQ**

Sample ID: **EQUIP RINSATE 1** ***Collected:*** **7/1/2011 1:00:00 PM** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	0.041	J	0.030	MDL	1.0	LOD	ug/L	J	Rl
IRON	100	U	44	MDL	150	LOD	ug/L	R	Lcs
MANGANESE	3.0	U	1.1	MDL	5.0	LOD	ug/L	R	Ms
NICKEL	2.2	J	0.62	MDL	5.0	LOD	ug/L	J	Rl
SODIUM	260	J	160	MDL	1000	LOD	ug/L	J	Rl
ZINC	13	J B	8.8	MDL	40	LOD	ug/L	U	Mb

Method Category: **SVOA**

Method: **8270C** ***Matrix:*** **AQ**

Sample ID: **EQUIP RINSATE 1** ***Collected:*** **7/1/2011 1:00:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.11	U Q	0.11	MDL	0.23	LOD	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS 1-4, 12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1653-1 **Laboratory: TA SAC**

EDD Filename: 240-1653-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Reason Code Legend

Reason Code	*Description*
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Rejection
Mb	Method Blank Contamination
Ms	Matrix Spike Upper Rejection
RI	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS 1-4, 12

Surrogate Outlier Report

Lab Reporting Batch ID: 240-1653-1 **Laboratory: TA SAC**

EDD Filename: 240-1653-1 **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 240-1653-1 **Laboratory: TA SAC**

EDD Filename: 240-1653-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 6020
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS 240-10075/2-A ^10 (TOT) (EQUIP RINSATE 1)	IRON	-	-	80.00-120.00	-	IRON	J+ (all detects) R (all non-detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS 240-7492/4-A (EQUIP RINSATE 1)	BENZO(A)PYRENE	51	-	55.00-110.00	-	BENZO(A)PYRENE	J-(all detects) UJ(all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: 240-1653-1 **Laboratory: TA SAC**

EDD Filename: 240-1653-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: **6020**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB 240-10075/1-A	8/29/2011 11:33:00 AM	ZINC	46.4 ug/L	EQUIP RINSATE 1

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EQUIP RINSATE 1(RES/TOT)	ZINC	13 ug/L	40U ug/L

Method: **8270C**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB 240-7492/3-A	8/5/2011 12:21:00 PM	BIS(2-ETHYLHEXYL) PHTHALATE	2.50 ug/L	EQUIP RINSATE 1

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: 240-1653-1 **Laboratory: TA SAC**

EDD Filename: 240-1653-1 **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA SAC**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Lab Reporting Batch: 240-1728-1						
Method: 300.0						
EQUIP RINSATE 2-1-11	240-1728-48	AQ	EB	Gen Prep	7/6/2011 9:00:00 AM	S2AVE
L12SS-300M-0001-SO	240-1728-20	SO	FD	Gen Prep	7/3/2011 11:15:00 AM	S2AVE
L12SS-301M-0001-SO	240-1728-22	SO	N	Gen Prep	7/3/2011 11:15:00 AM	S2AVE
LL1SB-644M-0101-SO	240-1728-24	SO	N	Gen Prep	7/5/2011 11:00:00 AM	S2AVE
LL1SB-644M-0102-SO	240-1728-26	SO	FD	Gen Prep	7/5/2011 10:57:00 AM	S2AVE
LL1SB-644M-0103-SO	240-1728-28	SO	N	Gen Prep	7/5/2011 11:07:00 AM	S2AVE
LL1SB-645M-0101-SO	240-1728-30	SO	N	Gen Prep	7/5/2011 11:06:00 AM	S2AVE
LL1SB-645M-0102-SO	240-1728-32	SO	N	Gen Prep	7/5/2011 11:07:00 AM	S2AVE
LL1SB-645M-0103-SO	240-1728-34	SO	N	Gen Prep	7/5/2011 11:01:00 AM	S2AVE
LL2SS-516M-0001-SO	240-1728-14	SO	N	Gen Prep	7/3/2011 9:45:00 AM	S2AVE
LL2SS-516M-0001-SOMS	240-1728-14MS	SO	MS	Gen Prep	7/3/2011 9:45:00 AM	S2AVE
LL2SS-516M-0001-SOMSD	240-1728-14MSD	SO	MSD	Gen Prep	7/3/2011 9:45:00 AM	S2AVE
LL2SS-517M-0001-SO	240-1728-18	SO	N	Gen Prep	7/3/2011 9:45:00 AM	S2AVE
LL3SD-416M-0001-SD	240-1728-4	SO	FD	Gen Prep	7/2/2011 8:50:00 AM	S2AVE
LL3SD-417M-0001-SD	240-1728-6	SO	N	Gen Prep	7/2/2011 8:50:00 AM	S2AVE
Method: 6020						
EQUIP RINSATE 2-1-11	240-1728-48	AQ	EB	3005A	7/6/2011 9:00:00 AM	S2AVE
L12SS-300M-0001-SO	240-1728-20	SO	FD	3050B	7/3/2011 11:15:00 AM	S2AVE
L12SS-301M-0001-SO	240-1728-22	SO	N	3050B	7/3/2011 11:15:00 AM	S2AVE
LL1SB-644M-0101-SO	240-1728-24	SO	N	3050B	7/5/2011 11:00:00 AM	S2AVE
LL1SB-644M-0102-SO	240-1728-26	SO	FD	3050B	7/5/2011 10:57:00 AM	S2AVE
LL1SB-644M-0103-SO	240-1728-28	SO	N	3050B	7/5/2011 11:07:00 AM	S2AVE
LL1SB-645M-0101-SO	240-1728-30	SO	N	3050B	7/5/2011 11:06:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA SAC**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Method: 6020						
LL1SB-645M-0101-SOMS	240-1728-30MS	SO	MS	3050B	7/5/2011 11:06:00 AM	S2AVE
LL1SB-645M-0101-SOMSD	240-1728-30MSD	SO	MSD	3050B	7/5/2011 11:06:00 AM	S2AVE
LL1SB-645M-0102-SO	240-1728-32	SO	N	3050B	7/5/2011 11:07:00 AM	S2AVE
LL1SB-645M-0103-SO	240-1728-34	SO	N	3050B	7/5/2011 11:01:00 AM	S2AVE
LL2SS-516M-0001-SO	240-1728-14	SO	N	3050B	7/3/2011 9:45:00 AM	S2AVE
LL2SS-516M-0001-SOMS	240-1728-14MS	SO	MS	3050B	7/3/2011 9:45:00 AM	S2AVE
LL2SS-516M-0001-SOMSD	240-1728-14MSD	SO	MSD	3050B	7/3/2011 9:45:00 AM	S2AVE
LL2SS-517M-0001-SO	240-1728-18	SO	N	3050B	7/3/2011 9:45:00 AM	S2AVE
LL3SD-416M-0001-SD	240-1728-4	SO	FD	3050B	7/2/2011 8:50:00 AM	S2AVE
LL3SD-417M-0001-SD	240-1728-6	SO	N	3050B	7/2/2011 8:50:00 AM	S2AVE
Method: 7196A						
EQUIP RINSATE 2-1-11	240-1728-48	AQ	EB	Gen Prep	7/6/2011 9:00:00 AM	S2AVE
EQUIP RINSATE 2-1-11MS	240-1728-48MS	AQ	MS	Gen Prep	7/6/2011 9:00:00 AM	S2AVE
EQUIP RINSATE 2-1-11MSD	240-1728-48MSD	AQ	MSD	Gen Prep	7/6/2011 9:00:00 AM	S2AVE
L12SS-300M-0001-SO	240-1728-20	SO	FD	Gen Prep	7/3/2011 11:15:00 AM	S2AVE
L12SS-301M-0001-SO	240-1728-22	SO	N	Gen Prep	7/3/2011 11:15:00 AM	S2AVE
LL1SB-644M-0101-SO	240-1728-24	SO	N	Gen Prep	7/5/2011 11:00:00 AM	S2AVE
LL1SB-644M-0102-SO	240-1728-26	SO	FD	Gen Prep	7/5/2011 10:57:00 AM	S2AVE
LL1SB-644M-0103-SO	240-1728-28	SO	N	Gen Prep	7/5/2011 11:07:00 AM	S2AVE
LL1SB-645M-0101-SO	240-1728-30	SO	N	Gen Prep	7/5/2011 11:06:00 AM	S2AVE
LL1SB-645M-0102-SO	240-1728-32	SO	N	Gen Prep	7/5/2011 11:07:00 AM	S2AVE
LL1SB-645M-0103-SO	240-1728-34	SO	N	Gen Prep	7/5/2011 11:01:00 AM	S2AVE
LL2SS-516M-0001-SO	240-1728-14	SO	N	Gen Prep	7/3/2011 9:45:00 AM	S2AVE
LL2SS-517M-0001-SO	240-1728-18	SO	N	Gen Prep	7/3/2011 9:45:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA SAC**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Method: 7196A						
LL3SD-416M-0001-SD	240-1728-4	SO	FD	Gen Prep	7/2/2011 8:50:00 AM	S2AVE
LL3SD-417M-0001-SD	240-1728-6	SO	N	Gen Prep	7/2/2011 8:50:00 AM	S2AVE
Method: 7470A						
EQUIP RINSATE 2-1-11	240-1728-48	AQ	EB	7470A	7/6/2011 9:00:00 AM	S2AVE
EQUIP RINSATE 2-1-11MS	240-1728-48MS	AQ	MS	7470A	7/6/2011 9:00:00 AM	S2AVE
EQUIP RINSATE 2-1-11MSD	240-1728-48MSD	AQ	MSD	7470A	7/6/2011 9:00:00 AM	S2AVE
Method: 7471A						
L12SS-300M-0001-SO	240-1728-20	SO	FD	7471A	7/3/2011 11:15:00 AM	S2AVE
L12SS-301M-0001-SO	240-1728-22	SO	N	7471A	7/3/2011 11:15:00 AM	S2AVE
LL1SB-644M-0101-SO	240-1728-24	SO	N	7471A	7/5/2011 11:00:00 AM	S2AVE
LL1SB-644M-0102-SO	240-1728-26	SO	FD	7471A	7/5/2011 10:57:00 AM	S2AVE
LL1SB-644M-0103-SO	240-1728-28	SO	N	7471A	7/5/2011 11:07:00 AM	S2AVE
LL1SB-645M-0101-SO	240-1728-30	SO	N	7471A	7/5/2011 11:06:00 AM	S2AVE
LL1SB-645M-0101-SOMS	240-1728-30MS	SO	MS	7471A	7/5/2011 11:06:00 AM	S2AVE
LL1SB-645M-0101-SOMSD	240-1728-30MSD	SO	MSD	7471A	7/5/2011 11:06:00 AM	S2AVE
LL1SB-645M-0102-SO	240-1728-32	SO	N	7471A	7/5/2011 11:07:00 AM	S2AVE
LL1SB-645M-0103-SO	240-1728-34	SO	N	7471A	7/5/2011 11:01:00 AM	S2AVE
LL2SS-516M-0001-SO	240-1728-14	SO	N	7471A	7/3/2011 9:45:00 AM	S2AVE
LL2SS-516M-0001-SOMS	240-1728-14MS	SO	MS	7471A	7/3/2011 9:45:00 AM	S2AVE
LL2SS-516M-0001-SOMSD	240-1728-14MSD	SO	MSD	7471A	7/3/2011 9:45:00 AM	S2AVE
LL2SS-517M-0001-SO	240-1728-18	SO	N	7471A	7/3/2011 9:45:00 AM	S2AVE
LL3SD-416M-0001-SD	240-1728-4	SO	FD	7471A	7/2/2011 8:50:00 AM	S2AVE
LL3SD-417M-0001-SD	240-1728-6	SO	N	7471A	7/2/2011 8:50:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA SAC**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Method: 8081A						
EQUIP RINSATE 2-1-11	240-1728-48	AQ	EB	3520C	7/6/2011 9:00:00 AM	S2AVE
L12SS-300M-0001-SO	240-1728-20	SO	FD	3540C	7/3/2011 11:15:00 AM	S2AVE
L12SS-301M-0001-SO	240-1728-22	SO	N	3540C	7/3/2011 11:15:00 AM	S2AVE
LL1SB-644M-0101-SO	240-1728-24	SO	N	3540C	7/5/2011 11:00:00 AM	S2AVE
LL1SB-644M-0102-SO	240-1728-26	SO	FD	3540C	7/5/2011 10:57:00 AM	S2AVE
LL1SB-644M-0103-SO	240-1728-28	SO	N	3540C	7/5/2011 11:07:00 AM	S2AVE
LL1SB-645M-0101-SO	240-1728-30	SO	N	3540C	7/5/2011 11:06:00 AM	S2AVE
LL1SB-645M-0102-SO	240-1728-32	SO	N	3540C	7/5/2011 11:07:00 AM	S2AVE
LL1SB-645M-0103-SO	240-1728-34	SO	N	3540C	7/5/2011 11:01:00 AM	S2AVE
LL1SB-645M-0103-SOMS	240-1728-34MS	SO	MS	3540C	7/5/2011 11:01:00 AM	S2AVE
LL1SB-645M-0103-SOMSD	240-1728-34MSD	SO	MSD	3540C	7/5/2011 11:01:00 AM	S2AVE
LL2SS-516M-0001-SO	240-1728-14	SO	N	3540C	7/3/2011 9:45:00 AM	S2AVE
LL2SS-516M-0001-SOMS	240-1728-14MS	SO	MS	3540C	7/3/2011 9:45:00 AM	S2AVE
LL2SS-516M-0001-SOMSD	240-1728-14MSD	SO	MSD	3540C	7/3/2011 9:45:00 AM	S2AVE
LL2SS-517M-0001-SO	240-1728-18	SO	N	3540C	7/3/2011 9:45:00 AM	S2AVE
LL3SD-416M-0001-SD	240-1728-4	SO	FD	3540C	7/2/2011 8:50:00 AM	S2AVE
LL3SD-417M-0001-SD	240-1728-6	SO	N	3540C	7/2/2011 8:50:00 AM	S2AVE
Method: 8082						
EQUIP RINSATE 2-1-11	240-1728-48	AQ	EB	3520C	7/6/2011 9:00:00 AM	S2AVE
L12SS-300M-0001-SO	240-1728-20	SO	FD	3540C	7/3/2011 11:15:00 AM	S2AVE
L12SS-301M-0001-SO	240-1728-22	SO	N	3540C	7/3/2011 11:15:00 AM	S2AVE
LL1SB-644M-0101-SO	240-1728-24	SO	N	3540C	7/5/2011 11:00:00 AM	S2AVE
LL1SB-644M-0102-SO	240-1728-26	SO	FD	3540C	7/5/2011 10:57:00 AM	S2AVE
LL1SB-644M-0103-SO	240-1728-28	SO	N	3540C	7/5/2011 11:07:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA SAC**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Method: 8082						
LL1SB-645M-0101-SO	240-1728-30	SO	N	3540C	7/5/2011 11:06:00 AM	S2AVE
LL1SB-645M-0102-SO	240-1728-32	SO	N	3540C	7/5/2011 11:07:00 AM	S2AVE
LL1SB-645M-0102-SOMS	240-1728-32MS	SO	MS	3540C	7/5/2011 11:07:00 AM	S2AVE
LL1SB-645M-0102-SOMSD	240-1728-32MSD	SO	MSD	3540C	7/5/2011 11:07:00 AM	S2AVE
LL1SB-645M-0103-SO	240-1728-34	SO	N	3540C	7/5/2011 11:01:00 AM	S2AVE
LL2SS-516M-0001-SO	240-1728-14	SO	N	3540C	7/3/2011 9:45:00 AM	S2AVE
LL2SS-516M-0001-SOMS	240-1728-14MS	SO	MS	3540C	7/3/2011 9:45:00 AM	S2AVE
LL2SS-516M-0001-SOMSD	240-1728-14MSD	SO	MSD	3540C	7/3/2011 9:45:00 AM	S2AVE
LL2SS-517M-0001-SO	240-1728-18	SO	N	3540C	7/3/2011 9:45:00 AM	S2AVE
LL2SS-519M-0001-SO	240-1728-13	SO	N	3540C	7/2/2011 4:15:00 PM	S2AVE
LL3SD-416M-0001-SD	240-1728-4	SO	FD	3540C	7/2/2011 8:50:00 AM	S2AVE
LL3SD-417M-0001-SD	240-1728-6	SO	N	3540C	7/2/2011 8:50:00 AM	S2AVE
Method: 8260B						
L12SS-300V-0001-SO	240-1728-21	SO	N	5035	7/12/2011 3:40:00 PM	S2AVE
L12SS-301V-0001-SO	240-1728-23	SO	N	5035	7/12/2011 3:40:00 PM	S2AVE
LL1SB-644V-0101-SO	240-1728-25	SO	N	5035	7/12/2011 2:55:00 PM	S2AVE
LL1SB-644V-0102-SO	240-1728-27	SO	N	5035	7/12/2011 2:55:00 PM	S2AVE
LL1SB-644V-0103-SO	240-1728-29	SO	N	5035	7/12/2011 2:55:00 PM	S2AVE
LL1SB-645V-0101-SO	240-1728-31	SO	N	5035	7/12/2011 2:55:00 PM	S2AVE
LL1SB-645V-0102-SO	240-1728-33	SO	N	5035	7/12/2011 2:55:00 PM	S2AVE
LL1SB-645V-0103-SO	240-1728-35	SO	N	5035	7/12/2011 2:55:00 PM	S2AVE
LL2SS-516V-0001-SO	240-1728-15	SO	N	5035	7/12/2011 3:40:00 PM	S2AVE
LL2SS-516V-0001-SOMS	240-1728-15MS	SO	MS	5035	7/12/2011 3:40:00 PM	S2AVE
LL2SS-517V-0001-SO	240-1728-19	SO	N	5035	7/12/2011 3:40:00 PM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA SAC**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Method: 8260B						
LL3SD-416V-0001-SD	240-1728-5	SO	N	5035	7/12/2011 3:40:00 PM	S2AVE
LL3SD-417V-0001-SD	240-1728-7	SO	N	5035	7/12/2011 3:40:00 PM	S2AVE
Method: 8270C						
EQUIP RINSATE 2-1-11	240-1728-48	AQ	EB	3520C	7/6/2011 9:00:00 AM	S2AVE
L12SS-300M-0001-SO	240-1728-20	SO	FD	3540C	7/3/2011 11:15:00 AM	S2AVE
L12SS-301M-0001-SO	240-1728-22	SO	N	3540C	7/3/2011 11:15:00 AM	S2AVE
LL1SB-641M-0101-SO	240-1728-42	SO	N	3540C	7/6/2011 9:30:00 AM	S2AVE
LL1SB-641M-0102-SO	240-1728-43	SO	N	3540C	7/6/2011 9:37:00 AM	S2AVE
LL1SB-641M-0103-SO	240-1728-44	SO	N	3540C	7/6/2011 9:40:00 AM	S2AVE
LL1SB-642M-0101-SO	240-1728-45	SO	N	3540C	7/6/2011 10:40:00 AM	S2AVE
LL1SB-642M-0102-SO	240-1728-46	SO	N	3540C	7/6/2011 10:40:00 AM	S2AVE
LL1SB-642M-0103-SO	240-1728-47	SO	N	3540C	7/6/2011 10:40:00 AM	S2AVE
LL1SB-643M-0101-SO	240-1728-36	SO	N	3540C	7/5/2011 2:45:00 PM	S2AVE
LL1SB-643M-0102-SO	240-1728-37	SO	N	3540C	7/5/2011 2:45:00 PM	S2AVE
LL1SB-643M-0103-SO	240-1728-38	SO	N	3540C	7/5/2011 2:47:00 PM	S2AVE
LL1SB-644M-0101-SO	240-1728-24	SO	N	3540C	7/5/2011 11:00:00 AM	S2AVE
LL1SB-644M-0102-SO	240-1728-26	SO	FD	3540C	7/5/2011 10:57:00 AM	S2AVE
LL1SB-644M-0103-SO	240-1728-28	SO	N	3540C	7/5/2011 11:07:00 AM	S2AVE
LL1SB-645M-0101-SO	240-1728-30	SO	N	3540C	7/5/2011 11:06:00 AM	S2AVE
LL1SB-645M-0102-SO	240-1728-32	SO	N	3540C	7/5/2011 11:07:00 AM	S2AVE
LL1SB-645M-0103-SO	240-1728-34	SO	N	3540C	7/5/2011 11:01:00 AM	S2AVE
LL2SB-512M-0101-SO	240-1728-1	SO	N	3540C	7/1/2011 3:50:00 PM	S2AVE
LL2SB-512M-0102-SO	240-1728-2	SO	N	3540C	7/1/2011 3:50:00 PM	S2AVE
LL2SB-512M-0103-SO	240-1728-3	SO	N	3540C	7/1/2011 3:50:00 PM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA SAC**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Method: 8270C						
LL2SS-516M-0001-SO	240-1728-14	SO	N	3540C	7/3/2011 9:45:00 AM	S2AVE
LL2SS-516M-0001-SOMS	240-1728-14MS	SO	MS	3540C	7/3/2011 9:45:00 AM	S2AVE
LL2SS-516M-0001-SOMSD	240-1728-14MSD	SO	MSD	3540C	7/3/2011 9:45:00 AM	S2AVE
LL2SS-517M-0001-SO	240-1728-18	SO	N	3540C	7/3/2011 9:45:00 AM	S2AVE
LL2SS-519M-0001-SO	240-1728-13	SO	N	3540C	7/2/2011 4:15:00 PM	S2AVE
LL3SB-422M-0001-SO	240-1728-12	SO	N	3540C	7/2/2011 3:00:00 PM	S2AVE
LL3SD-416M-0001-SD	240-1728-4	SO	FD	3540C	7/2/2011 8:50:00 AM	S2AVE
LL3SD-417M-0001-SD	240-1728-6	SO	N	3540C	7/2/2011 8:50:00 AM	S2AVE
LL3SS-419M-0001-SO	240-1728-8	SO	N	3540C	7/2/2011 12:30:00 PM	S2AVE
LL3SS-419M-0001-SOMS	240-1728-8MS	SO	MS	3540C	7/2/2011 12:30:00 PM	S2AVE
LL3SS-419M-0001-SOMSD	240-1728-8MSD	SO	MSD	3540C	7/2/2011 12:30:00 PM	S2AVE
LL3SS-420M-0001-SO	240-1728-10	SO	N	3540C	7/2/2011 12:30:00 PM	S2AVE
LL3SS-421M-0001-SO	240-1728-11	SO	N	3540C	7/2/2011 3:00:00 PM	S2AVE
Method: 8330						
EQUIP RINSATE 2-1-11	240-1728-48	AQ	EB	3535	7/6/2011 9:00:00 AM	S2AVE
L12SS-300M-0001-SO	240-1728-20	SO	FD	8330	7/3/2011 11:15:00 AM	S2AVE
L12SS-301M-0001-SO	240-1728-22	SO	N	8330	7/3/2011 11:15:00 AM	S2AVE
LL1SB-640M-0101-SO	240-1728-39	SO	N	8330	7/5/2011 4:15:00 PM	S2AVE
LL1SB-640M-0102-SO	240-1728-40	SO	N	8330	7/5/2011 4:14:00 PM	S2AVE
LL1SB-640M-0103-SO	240-1728-41	SO	N	8330	7/5/2011 4:12:00 PM	S2AVE
LL1SB-644M-0101-SO	240-1728-24	SO	N	8330	7/5/2011 11:00:00 AM	S2AVE
LL1SB-644M-0102-SO	240-1728-26	SO	FD	8330	7/5/2011 10:57:00 AM	S2AVE
LL1SB-644M-0103-SO	240-1728-28	SO	N	8330	7/5/2011 11:07:00 AM	S2AVE
LL1SB-645M-0101-SO	240-1728-30	SO	N	8330	7/5/2011 11:06:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA SAC**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Method: 8330						
LL1SB-645M-0102-SO	240-1728-32	SO	N	8330	7/5/2011 11:07:00 AM	S2AVE
LL1SB-645M-0103-SO	240-1728-34	SO	N	8330	7/5/2011 11:01:00 AM	S2AVE
LL2SS-516M-0001-SO	240-1728-14	SO	N	8330	7/3/2011 9:45:00 AM	S2AVE
LL2SS-516M-0001-SOMS	240-1728-14MS	SO	MS	8330	7/3/2011 9:45:00 AM	S2AVE
LL2SS-516M-0001-SOMSD	240-1728-14MSD	SO	MSD	8330	7/3/2011 9:45:00 AM	S2AVE
LL2SS-517M-0001-SO	240-1728-18	SO	N	8330	7/3/2011 9:45:00 AM	S2AVE
LL3SD-416M-0001-SD	240-1728-4	SO	FD	8330	7/2/2011 8:50:00 AM	S2AVE
LL3SD-417M-0001-SD	240-1728-6	SO	N	8330	7/2/2011 8:50:00 AM	S2AVE
Method: 8330 MODIFIED						
EQUIP RINSATE 2-1-11	240-1728-48	AQ	EB	FILTRATION	7/6/2011 9:00:00 AM	S2AVE
L12SS-300M-0001-SO	240-1728-20	SO	FD	3550A	7/3/2011 11:15:00 AM	S2AVE
L12SS-301M-0001-SO	240-1728-22	SO	N	3550A	7/3/2011 11:15:00 AM	S2AVE
LL1SB-644M-0101-SO	240-1728-24	SO	N	3550A	7/5/2011 11:00:00 AM	S2AVE
LL1SB-644M-0102-SO	240-1728-26	SO	FD	3550A	7/5/2011 10:57:00 AM	S2AVE
LL1SB-644M-0103-SO	240-1728-28	SO	N	3550A	7/5/2011 11:07:00 AM	S2AVE
LL1SB-645M-0101-SO	240-1728-30	SO	N	3550A	7/5/2011 11:06:00 AM	S2AVE
LL1SB-645M-0102-SO	240-1728-32	SO	N	3550A	7/5/2011 11:07:00 AM	S2AVE
LL1SB-645M-0103-SO	240-1728-34	SO	N	3550A	7/5/2011 11:01:00 AM	S2AVE
LL2SS-516M-0001-SO	240-1728-14	SO	N	3550A	7/3/2011 9:45:00 AM	S2AVE
LL2SS-516M-0001-SOMS	240-1728-14MS	SO	MS	3550A	7/3/2011 9:45:00 AM	S2AVE
LL2SS-516M-0001-SOMSD	240-1728-14MSD	SO	MSD	3550A	7/3/2011 9:45:00 AM	S2AVE
LL2SS-517M-0001-SO	240-1728-18	SO	N	3550A	7/3/2011 9:45:00 AM	S2AVE
LL3SD-416M-0001-SD	240-1728-4	SO	FD	3550A	7/2/2011 8:50:00 AM	S2AVE
LL3SD-417M-0001-SD	240-1728-6	SO	N	3550A	7/2/2011 8:50:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA SAC**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code

Validation Label Legend

Label Code	Label Decription	EPA Level
S1VE	Stage_1_Validation_Electronic	N/A
S1VM	Stage_1_Validation_Manual	N/A
S1VEM	Stage_1_Validation_Electronic_and_Manual	N/A
S2AVE	Stage_2A_Validation_Electronic	Level 3 w/o calibration
S2AVM	Stage_2A_Validation_Manual	Level 3 w/o calibration
S2AVEM	Stage_2A_Validation_Electronic_and_Manual	Level 3 w/o calibration
S2BVE	Stage_2B_Validation_Electronic	Level 3 with
S2BVM	Stage_2B_Validation_Manual	Level 3 with
S2BVEM	Stage_2B_Validation_Electronic_and_Manual	Level 3 with
S3VE	Stage_3_Validation_Electronic	Level 4
S3VM	Stage_3_Validation_Manual	Level 4
S3VEM	Stage_3_Validation_Electronic_and_Manual	Level 4
S4VE	Stage_4_Validation_Electronic	Level 4
S4VM	Stage_4_Validation_Manual	Level 4
S4VEM	Stage_4_Validation_Electronic_and_Manual	Level 4
NV	Not_Validated	N/A

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **GENCHEM**

Method: **300.0** ***Matrix:*** **SO**

Sample ID: **L12SS-300M-0001-SO** ***Collected:*** **7/3/2011 11:15:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrocellulose	2.1	J	0.80	MDL	5.1	PQL	mg/kg	J	RI, Ms

Sample ID: **L12SS-301M-0001-SO** ***Collected:*** **7/3/2011 11:15:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrocellulose	2.6	J	0.80	MDL	5.1	PQL	mg/kg	J	RI, Ms

Sample ID: **LL1SB-644M-0101-SO** ***Collected:*** **7/5/2011 11:00:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrocellulose	2.1	J	0.79	MDL	5.0	PQL	mg/kg	J	RI, Ms

Sample ID: **LL1SB-644M-0102-SO** ***Collected:*** **7/5/2011 10:57:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrocellulose	2.5	J	0.79	MDL	5.1	PQL	mg/kg	J	RI, Ms

Sample ID: **LL1SB-644M-0103-SO** ***Collected:*** **7/5/2011 11:07:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrocellulose	2.2	J	0.78	MDL	5.0	PQL	mg/kg	J	RI, Ms

Sample ID: **LL1SB-645M-0101-SO** ***Collected:*** **7/5/2011 11:06:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrocellulose	3.5	J	0.79	MDL	5.0	PQL	mg/kg	J	RI, Ms

Sample ID: **LL1SB-645M-0102-SO** ***Collected:*** **7/5/2011 11:07:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrocellulose	1.4	J	0.79	MDL	5.1	PQL	mg/kg	J	RI, Ms

Sample ID: **LL1SB-645M-0103-SO** ***Collected:*** **7/5/2011 11:01:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrocellulose	5.4		0.78	MDL	5.0	PQL	mg/kg	J-	Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: LL2SS-516M-0001-SO **Collected:** 7/3/2011 9:45:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrocellulose	0.85	J	0.79	MDL	5.1	PQL	mg/kg	J	RI, Ms

Sample ID: LL2SS-517M-0001-SO **Collected:** 7/3/2011 9:45:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrocellulose	0.94	J	0.80	MDL	5.1	PQL	mg/kg	UJ	Ms, Fb

Sample ID: LL3SD-416M-0001-SD **Collected:** 7/2/2011 8:50:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrocellulose	1.4	J	0.80	MDL	5.1	PQL	mg/kg	J	RI, Ms

Sample ID: LL3SD-417M-0001-SD **Collected:** 7/2/2011 8:50:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrocellulose	1.4	J	0.81	MDL	5.2	PQL	mg/kg	J	RI, Ms

Method Category: METALS

Method: 6020 **Matrix: AQ**

Sample ID: EQUIP RINSATE 2-1-11 **Collected:** 7/6/2011 9:00:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.27	J	0.21	MDL	2.0	LOD	ug/L	J	RI
CADMIUM	0.031	J	0.023	MDL	2.0	LOD	ug/L	J	RI
IRON	100	U	44	MDL	150	LOD	ug/L	R	Lcs

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: L12SS-300M-0001-SO **Collected:** 7/3/2011 11:15:00 **Analysis Type:** RE2/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.96		0.061	MDL	0.20	LOD	mg/Kg	J-	Ms
ARSENIC	16		0.051	MDL	0.49	LOD	mg/Kg	J-	Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: **L12SS-300M-0001-SO** ***Collected:*** **7/3/2011 11:15:00** ***Analysis Type:*** **RE2/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	79		0.13	MDL	0.49	LOD	mg/Kg	J-	Ms
CHROMIUM	57		0.16	MDL	0.49	LOD	mg/Kg	J-	Ms
COPPER	440		0.11	MDL	0.39	LOD	mg/Kg	J-	Ms, Lcs
LEAD	67		0.069	MDL	0.30	LOD	mg/Kg	J-	Ms
NICKEL	51		0.085	MDL	0.49	LOD	mg/Kg	J-	Ms
SELENIUM	1.4		0.020	MDL	0.49	LOD	mg/Kg	J-	Ms
THALLIUM	0.099	J	0.055	MDL	0.20	LOD	mg/Kg	J	RI, Ms

Sample ID: **L12SS-300M-0001-SO** ***Collected:*** **7/3/2011 11:15:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.86	J D	0.034	MDL	0.99	LOD	mg/Kg	J	RI
CADMIUM	1.0	J D	0.031	MDL	2.0	LOD	mg/Kg	J	RI
COBALT	7.4	D	0.044	MDL	0.99	LOD	mg/Kg	J-	Ms
MANGANESE	1200	D	1.6	MDL	4.9	LOD	mg/Kg	J-	Ms
SILVER	0.26	J D	0.16	MDL	0.99	LOD	mg/Kg	J	RI
ZINC	280	D	9.9	MDL	39	LOD	mg/Kg	J-	Ms

Sample ID: **L12SS-301M-0001-SO** ***Collected:*** **7/3/2011 11:15:00** ***Analysis Type:*** **RE2/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	12		0.045	MDL	0.43	LOD	mg/Kg	J-	Ms
CHROMIUM	58		0.14	MDL	0.43	LOD	mg/Kg	J-	Ms
NICKEL	54		0.075	MDL	0.43	LOD	mg/Kg	J-	Ms
SELENIUM	1.2		0.018	MDL	0.43	LOD	mg/Kg	J-	Ms

Sample ID: **L12SS-301M-0001-SO** ***Collected:*** **7/3/2011 11:15:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.4	J D	0.54	MDL	1.7	LOD	mg/Kg	J	RI, Ms
BARIUM	84	D	1.1	MDL	4.3	LOD	mg/Kg	J-	Ms
CADMIUM	1.4	J D	0.027	MDL	1.7	LOD	mg/Kg	J	RI
COBALT	6.7	D	0.039	MDL	0.87	LOD	mg/Kg	J-	Ms
COPPER	650	D	0.96	MDL	3.5	LOD	mg/Kg	J-	Ms, Lcs
LEAD	110	D	0.61	MDL	2.6	LOD	mg/Kg	J-	Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: **L12SS-301M-0001-SO** ***Collected:*** **7/3/2011 11:15:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	820	D	1.4	MDL	4.3	LOD	mg/Kg	J-	Ms
SILVER	0.32	J D	0.14	MDL	0.87	LOD	mg/Kg	J	RI
THALLIUM	1.3	U	0.49	MDL	1.7	LOD	mg/Kg	R	Ms
ZINC	340	D	8.7	MDL	35	LOD	mg/Kg	J-	Ms

Sample ID: **LL1SB-644M-0101-SO** ***Collected:*** **7/5/2011 11:00:00** ***Analysis Type:*** **RE2/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.13	U	0.053	MDL	0.17	LOD	mg/Kg	R	Ms
ARSENIC	5.9		0.045	MDL	0.43	LOD	mg/Kg	J-	Ms
BARIUM	30		0.11	MDL	0.43	LOD	mg/Kg	J-	Ms
CHROMIUM	15		0.14	MDL	0.43	LOD	mg/Kg	J-	Ms
COPPER	10		0.095	MDL	0.34	LOD	mg/Kg	J-	Ms, Lcs
LEAD	36		0.061	MDL	0.26	LOD	mg/Kg	J-	Ms
NICKEL	13		0.074	MDL	0.43	LOD	mg/Kg	J-	Ms
SELENIUM	0.55		0.018	MDL	0.43	LOD	mg/Kg	J-	Ms
SODIUM	31	J	12	MDL	86	LOD	mg/Kg	J	RI
THALLIUM	0.095	J	0.048	MDL	0.17	LOD	mg/Kg	J	RI, Ms

Sample ID: **LL1SB-644M-0101-SO** ***Collected:*** **7/5/2011 11:00:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.29	J D	0.015	MDL	0.43	LOD	mg/Kg	J	RI
CADMIUM	0.47	J D	0.013	MDL	0.86	LOD	mg/Kg	J	RI
COBALT	4.8	D	0.019	MDL	0.43	LOD	mg/Kg	J-	Ms
MANGANESE	540	D	0.69	MDL	2.2	LOD	mg/Kg	J-	Ms
ZINC	68	D	4.3	MDL	17	LOD	mg/Kg	J-	Ms

Sample ID: **LL1SB-644M-0102-SO** ***Collected:*** **7/5/2011 10:57:00** ***Analysis Type:*** **RE2/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.086	J	0.047	MDL	0.15	LOD	mg/Kg	J	RI, Ms
ARSENIC	6.0		0.040	MDL	0.38	LOD	mg/Kg	J-	Ms
BARIUM	60		0.099	MDL	0.38	LOD	mg/Kg	J-	Ms
CHROMIUM	28		0.12	MDL	0.38	LOD	mg/Kg	J-	Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: **LL1SB-644M-0102-SO** ***Collected:*** **7/5/2011 10:57:00** ***Analysis Type:*** **RE2/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	12		0.084	MDL	0.30	LOD	mg/Kg	J-	Ms, Lcs
LEAD	70		0.054	MDL	0.23	LOD	mg/Kg	J-	Ms
NICKEL	17		0.066	MDL	0.38	LOD	mg/Kg	J-	Ms
SELENIUM	0.71		0.016	MDL	0.38	LOD	mg/Kg	J-	Ms
THALLIUM	0.067	J	0.043	MDL	0.15	LOD	mg/Kg	J	RI, Ms

Sample ID: **LL1SB-644M-0102-SO** ***Collected:*** **7/5/2011 10:57:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.53	J D	0.027	MDL	0.76	LOD	mg/Kg	J	RI
CADMIUM	0.60	J D	0.024	MDL	1.5	LOD	mg/Kg	J	RI
COBALT	3.7	D	0.034	MDL	0.76	LOD	mg/Kg	J-	Ms
MANGANESE	670	D	1.2	MDL	3.8	LOD	mg/Kg	J-	Ms
ZINC	130	D	7.6	MDL	30	LOD	mg/Kg	J-	Ms

Sample ID: **LL1SB-644M-0103-SO** ***Collected:*** **7/5/2011 11:07:00** ***Analysis Type:*** **RE2/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.15	U	0.060	MDL	0.19	LOD	mg/Kg	R	Ms
ARSENIC	3.7		0.051	MDL	0.49	LOD	mg/Kg	J-	Ms
BARIUM	17		0.13	MDL	0.49	LOD	mg/Kg	J-	Ms
CHROMIUM	12		0.16	MDL	0.49	LOD	mg/Kg	J-	Ms
COPPER	4.0		0.11	MDL	0.39	LOD	mg/Kg	J-	Ms, Lcs
LEAD	7.7		0.069	MDL	0.29	LOD	mg/Kg	J-	Ms
NICKEL	9.4		0.084	MDL	0.49	LOD	mg/Kg	J-	Ms
SELENIUM	0.34	J	0.020	MDL	0.49	LOD	mg/Kg	J	RI, Ms
SODIUM	26	J	14	MDL	97	LOD	mg/Kg	J	RI
THALLIUM	0.11	J	0.055	MDL	0.19	LOD	mg/Kg	J	RI, Ms

Sample ID: **LL1SB-644M-0103-SO** ***Collected:*** **7/5/2011 11:07:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.15	J D	0.017	MDL	0.49	LOD	mg/Kg	J	RI
CADMIUM	0.15	J D	0.015	MDL	0.97	LOD	mg/Kg	J	RI
COBALT	6.7	D	0.022	MDL	0.49	LOD	mg/Kg	J-	Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: **LL1SB-644M-0103-SO** ***Collected:*** **7/5/2011 11:07:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	530	D	0.78	MDL	2.4	LOD	mg/Kg	J-	Ms
ZINC	62	D	4.9	MDL	19	LOD	mg/Kg	J-	Ms

Sample ID: **LL1SB-645M-0101-SO** ***Collected:*** **7/5/2011 11:06:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.084	J	0.063	MDL	0.20	LOD	mg/Kg	J	RI, Ms
ARSENIC	5.8		0.053	MDL	0.50	LOD	mg/Kg	J-	Ms
BARIUM	39	B	0.13	MDL	0.50	LOD	mg/Kg	J-	Ms
CADMIUM	3.8		0.0031	MDL	0.20	LOD	mg/Kg	J-	Ms
CALCIUM	9000	J	40	MDL	200	LOD	mg/Kg	J	Ms, Ms
CHROMIUM	29	J	0.16	MDL	0.50	LOD	mg/Kg	J-	Ms
COPPER	22		0.11	MDL	0.40	LOD	mg/Kg	J-	Ms, Lcs
IRON	19000	J	11	MDL	50	LOD	mg/Kg	J-	Ms
NICKEL	20		0.087	MDL	0.50	LOD	mg/Kg	J-	Ms
SELENIUM	0.44	J	0.021	MDL	0.50	LOD	mg/Kg	J	RI, Ms
SILVER	0.018	J	0.016	MDL	0.10	LOD	mg/Kg	J	RI
SODIUM	60	J	14	MDL	100	LOD	mg/Kg	J	RI
THALLIUM	0.12	J	0.057	MDL	0.20	LOD	mg/Kg	J	RI, Ms, Ms
ZINC	100	B J	1.0	MDL	4.0	LOD	mg/Kg	J-	Ms

Sample ID: **LL1SB-645M-0102-SO** ***Collected:*** **7/5/2011 11:07:00** ***Analysis Type:*** **RE2/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.15	U	0.061	MDL	0.20	LOD	mg/Kg	R	Ms
ARSENIC	5.5		0.051	MDL	0.49	LOD	mg/Kg	J-	Ms
BARIUM	71		0.13	MDL	0.49	LOD	mg/Kg	J-	Ms
CHROMIUM	27		0.16	MDL	0.49	LOD	mg/Kg	J-	Ms
COPPER	12		0.11	MDL	0.39	LOD	mg/Kg	J-	Ms, Lcs
LEAD	75		0.069	MDL	0.30	LOD	mg/Kg	J-	Ms
NICKEL	17		0.085	MDL	0.49	LOD	mg/Kg	J-	Ms
SELENIUM	0.65		0.020	MDL	0.49	LOD	mg/Kg	J-	Ms
SODIUM	96	J	14	MDL	99	LOD	mg/Kg	J	RI
THALLIUM	0.093	J	0.055	MDL	0.20	LOD	mg/Kg	J	RI, Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: **LL1SB-645M-0102-SO** ***Collected:*** **7/5/2011 11:07:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.44	J D	0.015	MDL	0.99	LOD	mg/Kg	J	RI
COBALT	4.0	D	0.022	MDL	0.49	LOD	mg/Kg	J-	Ms
MANGANESE	690	D	0.79	MDL	2.5	LOD	mg/Kg	J-	Ms
ZINC	63	D	4.9	MDL	20	LOD	mg/Kg	J-	Ms

Sample ID: **LL1SB-645M-0103-SO** ***Collected:*** **7/5/2011 11:01:00** ***Analysis Type:*** **RE2/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.14	U	0.057	MDL	0.18	LOD	mg/Kg	R	Ms
ARSENIC	3.5		0.048	MDL	0.46	LOD	mg/Kg	J-	Ms
BARIUM	23		0.12	MDL	0.46	LOD	mg/Kg	J-	Ms
CHROMIUM	17		0.15	MDL	0.46	LOD	mg/Kg	J-	Ms
COPPER	4.4		0.10	MDL	0.37	LOD	mg/Kg	J-	Ms, Lcs
LEAD	6.3		0.064	MDL	0.27	LOD	mg/Kg	J-	Ms
NICKEL	10		0.079	MDL	0.46	LOD	mg/Kg	J-	Ms
SELENIUM	0.42	J	0.019	MDL	0.46	LOD	mg/Kg	J	RI, Ms
SODIUM	66	J	13	MDL	91	LOD	mg/Kg	J	RI
THALLIUM	0.066	J	0.051	MDL	0.18	LOD	mg/Kg	J	RI, Ms

Sample ID: **LL1SB-645M-0103-SO** ***Collected:*** **7/5/2011 11:01:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.45	J D	0.016	MDL	0.46	LOD	mg/Kg	J	RI
CADMIUM	0.15	J D	0.014	MDL	0.91	LOD	mg/Kg	J	RI
COBALT	2.1	D	0.021	MDL	0.46	LOD	mg/Kg	J-	Ms
MANGANESE	310	D	0.73	MDL	2.3	LOD	mg/Kg	J-	Ms
ZINC	42	D	4.6	MDL	18	LOD	mg/Kg	J-	Ms

Sample ID: **LL2SS-516M-0001-SO** ***Collected:*** **7/3/2011 9:45:00 AM** ***Analysis Type:*** **RE2/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.15	J	0.059	MDL	0.19	LOD	mg/Kg	J	RI, Ms
ARSENIC	10		0.050	MDL	0.48	LOD	mg/Kg	J-	Ms
BARIUM	79	J	0.12	MDL	0.48	LOD	mg/Kg	J-	Ms
CHROMIUM	27		0.15	MDL	0.48	LOD	mg/Kg	J-	Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: **LL2SS-516M-0001-SO** ***Collected:*** **7/3/2011 9:45:00 AM** ***Analysis Type:*** **RE2/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	19		0.10	MDL	0.38	LOD	mg/Kg	J-	Ms, Lcs
LEAD	35		0.067	MDL	0.29	LOD	mg/Kg	J-	Ms
NICKEL	26		0.082	MDL	0.48	LOD	mg/Kg	J-	Ms
SELENIUM	1.2		0.020	MDL	0.48	LOD	mg/Kg	J-	Ms
THALLIUM	0.17	J	0.054	MDL	0.19	LOD	mg/Kg	J	RI, Ms

Sample ID: **LL2SS-516M-0001-SO** ***Collected:*** **7/3/2011 9:45:00 AM** ***Analysis Type:*** **RE3/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	8100	J	2.5	MDL	9.9	LOD	mg/Kg	J+	Ms
CALCIUM	17000	J	40	MDL	200	LOD	mg/Kg	J+	Ms
IRON	20000	J	11	MDL	49	LOD	mg/Kg	J+	Ms

Sample ID: **LL2SS-516M-0001-SO** ***Collected:*** **7/3/2011 9:45:00 AM** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.27	J D	0.015	MDL	0.95	LOD	mg/Kg	J	RI
COBALT	8.3	D	0.021	MDL	0.48	LOD	mg/Kg	J-	Ms
MANGANESE	670	D J	0.76	MDL	2.4	LOD	mg/Kg	J-	Ms
ZINC	88	D J	4.8	MDL	19	LOD	mg/Kg	J-	Ms

Sample ID: **LL2SS-517M-0001-SO** ***Collected:*** **7/3/2011 9:45:00 AM** ***Analysis Type:*** **RE2/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.14	J	0.058	MDL	0.19	LOD	mg/Kg	UJ	Ms, Fb
ARSENIC	9.2		0.048	MDL	0.46	LOD	mg/Kg	UJ	Ms, Fb
BARIUM	88		0.12	MDL	0.46	LOD	mg/Kg	UJ	Ms, Fb
CHROMIUM	32		0.15	MDL	0.46	LOD	mg/Kg	UJ	Ms, Fb
COPPER	18		0.10	MDL	0.37	LOD	mg/Kg	UJ	Ms, Lcs, Fb
IRON	20000		10	MDL	46	LOD	mg/Kg	U	Fb
LEAD	33		0.065	MDL	0.28	LOD	mg/Kg	UJ	Ms, Fb
MAGNESIUM	4500		8.3	MDL	93	LOD	mg/Kg	U	Fb
NICKEL	29		0.080	MDL	0.46	LOD	mg/Kg	UJ	Ms, Fb
POTASSIUM	1200		3.5	MDL	93	LOD	mg/Kg	U	Fb
SELENIUM	1.1		0.019	MDL	0.46	LOD	mg/Kg	UJ	Ms, Fb

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: **LL2SS-517M-0001-SO** ***Collected:*** **7/3/2011 9:45:00 AM** ***Analysis Type:*** **RE2/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	170		13	MDL	93	LOD	mg/Kg	U	Fb
THALLIUM	0.15	J	0.052	MDL	0.19	LOD	mg/Kg	UJ	Ms, Fb
VANADIUM	14		0.040	MDL	0.46	LOD	mg/Kg	U	Fb

Sample ID: **LL2SS-517M-0001-SO** ***Collected:*** **7/3/2011 9:45:00 AM** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	11000	D	23	MDL	93	LOD	mg/Kg	U	Fb
BERYLLIUM	1.0	D	0.032	MDL	0.93	LOD	mg/Kg	U	Fb
CADMIUM	0.17	J D	0.029	MDL	1.9	LOD	mg/Kg	U	Fb
CALCIUM	23000	D	370	MDL	1900	LOD	mg/Kg	U	Fb
COBALT	9.2	D	0.042	MDL	0.93	LOD	mg/Kg	UJ	Ms, Fb
MANGANESE	870	D	1.5	MDL	4.6	LOD	mg/Kg	UJ	Ms, Fb
ZINC	62	D	9.3	MDL	37	LOD	mg/Kg	UJ	Ms, Fb

Sample ID: **LL3SD-416M-0001-SD** ***Collected:*** **7/2/2011 8:50:00 AM** ***Analysis Type:*** **RE2/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.4		0.054	MDL	0.17	LOD	mg/Kg	J-	Ms
ARSENIC	14		0.045	MDL	0.43	LOD	mg/Kg	J-	Ms
BARIUM	150		0.11	MDL	0.43	LOD	mg/Kg	J-	Ms
CHROMIUM	26		0.14	MDL	0.43	LOD	mg/Kg	J-	Ms
COPPER	9.6		0.095	MDL	0.35	LOD	mg/Kg	J-	Ms, Lcs
LEAD	23		0.061	MDL	0.26	LOD	mg/Kg	J-	Ms
NICKEL	28		0.075	MDL	0.43	LOD	mg/Kg	J-	Ms
SELENIUM	1.1		0.018	MDL	0.43	LOD	mg/Kg	J-	Ms
THALLIUM	0.16	J	0.049	MDL	0.17	LOD	mg/Kg	J	RI, Ms

Sample ID: **LL3SD-416M-0001-SD** ***Collected:*** **7/2/2011 8:50:00 AM** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	1.0	J D	0.027	MDL	1.7	LOD	mg/Kg	J	RI
COBALT	21	D	0.039	MDL	0.86	LOD	mg/Kg	J-	Ms
MANGANESE	3700	D	1.4	MDL	4.3	LOD	mg/Kg	J-	Ms
ZINC	160	D	8.6	MDL	35	LOD	mg/Kg	J-	Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: LL3SD-417M-0001-SD **Collected:** 7/2/2011 8:50:00 AM **Analysis Type:** RE2/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.5		0.061	MDL	0.20	LOD	mg/Kg	J-	Ms
ARSENIC	13		0.052	MDL	0.50	LOD	mg/Kg	J-	Ms
BARIUM	130		0.13	MDL	0.50	LOD	mg/Kg	J-	Ms
CHROMIUM	31		0.16	MDL	0.50	LOD	mg/Kg	J-	Ms
COPPER	10		0.11	MDL	0.40	LOD	mg/Kg	J-	Ms, Lcs
LEAD	22		0.070	MDL	0.30	LOD	mg/Kg	J-	Ms
NICKEL	30		0.086	MDL	0.50	LOD	mg/Kg	J-	Ms
SELENIUM	1.1		0.021	MDL	0.50	LOD	mg/Kg	J-	Ms
SODIUM	69	J	14	MDL	99	LOD	mg/Kg	J	RI
THALLIUM	0.13	J	0.056	MDL	0.20	LOD	mg/Kg	J	RI, Ms

Sample ID: LL3SD-417M-0001-SD **Collected:** 7/2/2011 8:50:00 AM **Analysis Type:** RES/TOT **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	1.1	J D	0.031	MDL	2.0	LOD	mg/Kg	J	RI
COBALT	19	D	0.045	MDL	0.99	LOD	mg/Kg	J-	Ms
MANGANESE	3400	D	1.6	MDL	5.0	LOD	mg/Kg	J-	Ms
ZINC	170	D	9.9	MDL	40	LOD	mg/Kg	J-	Ms

Method Category: METALS

Method: 7196A **Matrix: SO**

Sample ID: L12SS-301M-0001-SO **Collected:** 7/3/2011 11:15:00 **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.29	J	0.28	MDL	0.82	LOD	mg/Kg	J	RI

Sample ID: LL1SB-644M-0101-SO **Collected:** 7/5/2011 11:00:00 **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.71	J	0.27	MDL	0.81	LOD	mg/Kg	J	RI

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: METALS

Method: 7196A **Matrix: SO**

Sample ID: LL2SS-516M-0001-SO **Collected:** 7/3/2011 9:45:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.45	J	0.28	MDL	0.82	LOD	mg/Kg	J	RI

Sample ID: LL3SD-416M-0001-SD **Collected:** 7/2/2011 8:50:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.46	J	0.28	MDL	0.82	LOD	mg/Kg	J	RI

Sample ID: LL3SD-417M-0001-SD **Collected:** 7/2/2011 8:50:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.45	J	0.28	MDL	0.82	LOD	mg/Kg	J	RI

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: LL1SB-644M-0102-SO **Collected:** 7/5/2011 10:57:00 **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.039	J	0.0090	MDL	0.064	LOD	mg/Kg	J	RI

Sample ID: LL1SB-645M-0101-SO **Collected:** 7/5/2011 11:06:00 **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.021	J	0.014	MDL	0.098	LOD	mg/Kg	J	RI

Sample ID: LL1SB-645M-0102-SO **Collected:** 7/5/2011 11:07:00 **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.043	J	0.013	MDL	0.091	LOD	mg/Kg	J	RI

Sample ID: LL2SS-516M-0001-SO **Collected:** 7/3/2011 9:45:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.023	J	0.014	MDL	0.10	LOD	mg/Kg	J	RI

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: LL2SS-517M-0001-SO **Collected:** 7/3/2011 9:45:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.022	J	0.014	MDL	0.10	LOD	mg/Kg	U	Fb

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: L12SS-300M-0001-SO **Collected:** 7/3/2011 11:15:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	34	U M	32	MDL	100	LOD	ug/Kg	R	Surr, Surr
4,4'-DDE	34	U M	20	MDL	87	LOD	ug/Kg	R	Ms, Surr, Surr
4,4'-DDT	34	U	32	MDL	100	LOD	ug/Kg	R	Ms, Surr, Surr
ALDRIN	68	U	62	MDL	210	LOD	ug/Kg	R	Ms, Surr, Surr
ALPHA-BHC	68	U Q	37	MDL	130	LOD	ug/Kg	R	Ms, Ms, Surr, Surr
ALPHA-CHLORDANE	68	U	48	MDL	150	LOD	ug/Kg	R	Ms, Surr, Surr
BETA-BHC	68	U Q	56	MDL	180	LOD	ug/Kg	R	Surr, Surr
DELTA-BHC	68	U	62	MDL	210	LOD	ug/Kg	R	Ms, Surr, Surr
DIELDRIN	34	U	24	MDL	87	LOD	ug/Kg	R	Ms, Surr, Surr
ENDOSULFAN I	34	U	27	MDL	87	LOD	ug/Kg	R	Ms, Surr, Surr
ENDOSULFAN II	68	U	42	MDL	130	LOD	ug/Kg	R	Ms, Surr, Surr
ENDOSULFAN SULFATE	68	U	45	MDL	150	LOD	ug/Kg	R	Ms, Surr, Surr
ENDRIN	34	U	26	MDL	87	LOD	ug/Kg	R	Ms, Ms, Ms, Surr, Surr
ENDRIN ALDEHYDE	68	U	51	MDL	150	LOD	ug/Kg	R	Ms, Surr, Surr
ENDRIN KETONE	80	J D	32	MDL	100	LOD	ug/Kg	J	RI, Ms, Surr, Surr
GAMMA-BHC	68	U Q	38	MDL	130	LOD	ug/Kg	R	Ms, Surr, Surr
GAMMA-CHLORDANE	34	U Q	22	MDL	87	LOD	ug/Kg	R	Ms, Surr, Surr
HEPTACHLOR	68	U	56	MDL	180	LOD	ug/Kg	R	Ms, Surr, Surr
HEPTACHLOR EPOXIDE	68	U	41	MDL	130	LOD	ug/Kg	R	Ms, Surr, Surr
METHOXYCHLOR	170	U	77	MDL	260	LOD	ug/Kg	R	Ms, Surr, Surr
TOXAPHENE	1000	U M	970	MDL	3400	LOD	ug/Kg	R	Surr, Surr

Sample ID: L12SS-301M-0001-SO **Collected:** 7/3/2011 11:15:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	34	U	32	MDL	100	LOD	ug/Kg	R	Surr, Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8081A** ***Matrix:*** **SO**

Sample ID: **L12SS-301M-0001-SO** ***Collected:*** **7/3/2011 11:15:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **50**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	34	U	20	MDL	87	LOD	ug/Kg	R	Ms, Surr, Surr
4,4'-DDT	34	U	32	MDL	100	LOD	ug/Kg	R	Ms, Surr, Surr
ALDRIN	68	U	62	MDL	210	LOD	ug/Kg	R	Ms, Surr, Surr
ALPHA-BHC	68	U Q	37	MDL	130	LOD	ug/Kg	R	Ms, Ms, Surr, Surr
ALPHA-CHLORDANE	68	U	48	MDL	150	LOD	ug/Kg	R	Ms, Surr, Surr
BETA-BHC	68	U Q	56	MDL	180	LOD	ug/Kg	R	Surr, Surr
DELTA-BHC	68	U	62	MDL	210	LOD	ug/Kg	R	Ms, Surr, Surr
DIELDRIN	34	U	24	MDL	87	LOD	ug/Kg	R	Ms, Surr, Surr
ENDOSULFAN I	34	U M	27	MDL	87	LOD	ug/Kg	R	Ms, Surr, Surr
ENDOSULFAN II	68	U	42	MDL	130	LOD	ug/Kg	R	Ms, Surr, Surr
ENDOSULFAN SULFATE	68	U	45	MDL	150	LOD	ug/Kg	R	Ms, Surr, Surr
ENDRIN	34	U	26	MDL	87	LOD	ug/Kg	R	Ms, Ms, Ms, Surr, Surr
ENDRIN ALDEHYDE	68	U	51	MDL	150	LOD	ug/Kg	R	Ms, Surr, Surr
ENDRIN KETONE	130	D	32	MDL	100	LOD	ug/Kg	J	Ms, Surr, Surr
GAMMA-BHC	68	U Q	38	MDL	130	LOD	ug/Kg	R	Ms, Surr, Surr
GAMMA-CHLORDANE	71	J D Q	22	MDL	87	LOD	ug/Kg	J	RI, Ms, Surr, Surr
HEPTACHLOR	68	U	56	MDL	180	LOD	ug/Kg	R	Ms, Surr, Surr
HEPTACHLOR EPOXIDE	68	U	41	MDL	130	LOD	ug/Kg	R	Ms, Surr, Surr
METHOXYCHLOR	170	U	77	MDL	260	LOD	ug/Kg	R	Ms, Surr, Surr
TOXAPHENE	1000	U M	980	MDL	3400	LOD	ug/Kg	R	Surr, Surr

Sample ID: **LL1SB-644M-0101-SO** ***Collected:*** **7/5/2011 11:00:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	3.4	U	3.1	MDL	10	LOD	ug/Kg	R	Surr
4,4'-DDE	87	D	2.0	MDL	8.5	LOD	ug/Kg	J	Ms, Surr
4,4'-DDT	3.4	U	3.2	MDL	10	LOD	ug/Kg	R	Ms, Surr
ALDRIN	6.7	U	6.0	MDL	20	LOD	ug/Kg	R	Ms, Surr
ALPHA-BHC	6.7	U Q	3.7	MDL	13	LOD	ug/Kg	R	Ms, Ms, Surr
ALPHA-CHLORDANE	6.7	U	4.7	MDL	15	LOD	ug/Kg	R	Ms, Surr
BETA-BHC	6.7	U Q	5.5	MDL	18	LOD	ug/Kg	R	Surr
DELTA-BHC	6.7	U	6.0	MDL	20	LOD	ug/Kg	R	Ms, Surr
DIELDRIN	3.4	U	2.4	MDL	8.5	LOD	ug/Kg	R	Ms, Surr
ENDOSULFAN I	3.4	U	2.6	MDL	8.5	LOD	ug/Kg	R	Ms, Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8081A** ***Matrix:*** **SO**

Sample ID: **LL1SB-644M-0101-SO** ***Collected:*** **7/5/2011 11:00:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	6.7	U	4.1	MDL	13	LOD	ug/Kg	R	Ms, Surr
ENDOSULFAN SULFATE	6.7	U	4.4	MDL	15	LOD	ug/Kg	R	Ms, Surr
ENDRIN	3.4	U	2.5	MDL	8.5	LOD	ug/Kg	R	Ms, Ms, Ms, Surr
ENDRIN ALDEHYDE	19	D	5.0	MDL	15	LOD	ug/Kg	J	Ms, Surr
ENDRIN KETONE	3.4	U	3.2	MDL	10	LOD	ug/Kg	R	Surr
GAMMA-BHC	6.7	U Q	3.7	MDL	13	LOD	ug/Kg	R	Ms, Surr
GAMMA-CHLORDANE	3.4	J D	2.1	MDL	8.5	LOD	ug/Kg	J	RI, Ms, Surr
HEPTACHLOR	6.7	U	5.5	MDL	18	LOD	ug/Kg	R	Ms, Surr
HEPTACHLOR EPOXIDE	6.7	U	4.0	MDL	13	LOD	ug/Kg	R	Ms, Surr
METHOXYCHLOR	17	U M	7.5	MDL	25	LOD	ug/Kg	R	Ms, Surr
TOXAPHENE	100	U M	96	MDL	340	LOD	ug/Kg	R	Surr

Sample ID: **LL1SB-644M-0102-SO** ***Collected:*** **7/5/2011 10:57:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **20**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	14	U	13	MDL	41	LOD	ug/Kg	R	Surr
4,4'-DDE	190	D	7.9	MDL	35	LOD	ug/Kg	J	Ms, Surr
4,4'-DDT	14	U	13	MDL	41	LOD	ug/Kg	R	Ms, Surr
ALDRIN	27	U	24	MDL	81	LOD	ug/Kg	R	Ms, Surr
ALPHA-BHC	27	U Q	15	MDL	51	LOD	ug/Kg	R	Ms, Ms, Surr
ALPHA-CHLORDANE	27	U	19	MDL	61	LOD	ug/Kg	R	Ms, Surr
BETA-BHC	27	U Q	22	MDL	71	LOD	ug/Kg	R	Surr
DELTA-BHC	27	U	24	MDL	81	LOD	ug/Kg	R	Ms, Surr
DIELDRIN	14	U	9.6	MDL	35	LOD	ug/Kg	R	Ms, Surr
ENDOSULFAN I	11	J D	11	MDL	35	LOD	ug/Kg	J	RI, Ms, Surr
ENDOSULFAN II	27	U	17	MDL	51	LOD	ug/Kg	R	Ms, Surr
ENDOSULFAN SULFATE	27	U	18	MDL	61	LOD	ug/Kg	R	Ms, Surr
ENDRIN	14	U	10	MDL	35	LOD	ug/Kg	R	Ms, Ms, Ms, Surr
ENDRIN ALDEHYDE	360	D	20	MDL	61	LOD	ug/Kg	J	Ms, Surr
ENDRIN KETONE	14	U	13	MDL	41	LOD	ug/Kg	R	Surr
GAMMA-BHC	27	U Q	15	MDL	51	LOD	ug/Kg	R	Ms, Surr
GAMMA-CHLORDANE	580	D Q	8.5	MDL	35	LOD	ug/Kg	J+	Ms, Surr
HEPTACHLOR	27	U	22	MDL	71	LOD	ug/Kg	R	Ms, Surr
HEPTACHLOR EPOXIDE	27	U	16	MDL	51	LOD	ug/Kg	R	Ms, Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: LL1SB-644M-0102-SO **Collected:** 7/5/2011 10:57:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHOXYCHLOR	67	U	31	MDL	100	LOD	ug/Kg	R	Ms, Surr
TOXAPHENE	410	U M	390	MDL	1400	LOD	ug/Kg	R	Surr

Sample ID: LL1SB-644M-0103-SO **Collected:** 7/5/2011 11:07:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	65	D	2.0	MDL	8.5	LOD	ug/Kg	J-	Ms
4,4'-DDT	3.4	U	3.2	MDL	10	LOD	ug/Kg	UJ	Ms
ALDRIN	6.7	U	6.0	MDL	20	LOD	ug/Kg	UJ	Ms
ALPHA-BHC	6.7	U Q	3.7	MDL	13	LOD	ug/Kg	UJ	Ms, Ms
ALPHA-CHLORDANE	6.7	U	4.7	MDL	15	LOD	ug/Kg	R	Ms
DELTA-BHC	6.7	U	6.0	MDL	20	LOD	ug/Kg	R	Ms
DIELDRIN	3.4	U	2.4	MDL	8.5	LOD	ug/Kg	R	Ms
ENDOSULFAN I	3.4	U	2.6	MDL	8.5	LOD	ug/Kg	UJ	Ms
ENDOSULFAN II	6.7	U	4.1	MDL	13	LOD	ug/Kg	R	Ms
ENDOSULFAN SULFATE	6.7	U	4.4	MDL	15	LOD	ug/Kg	R	Ms
ENDRIN	7.7	J D	2.5	MDL	8.5	LOD	ug/Kg	J	RI, Ms, Ms, Ms
ENDRIN ALDEHYDE	40	D	5.0	MDL	15	LOD	ug/Kg	J-	Ms
GAMMA-BHC	6.7	U Q	3.7	MDL	13	LOD	ug/Kg	R	Ms
GAMMA-CHLORDANE	300	D Q	2.1	MDL	8.5	LOD	ug/Kg	J+	Ms
HEPTACHLOR	6.7	U	5.5	MDL	18	LOD	ug/Kg	UJ	Ms
HEPTACHLOR EPOXIDE	6.7	U	4.0	MDL	13	LOD	ug/Kg	R	Ms
METHOXYCHLOR	12	J D	7.5	MDL	25	LOD	ug/Kg	J	RI, Ms

Sample ID: LL1SB-645M-0101-SO **Collected:** 7/5/2011 11:06:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	3.4	U	3.1	MDL	10	LOD	ug/Kg	R	Surr
4,4'-DDE	110	D	2.0	MDL	8.6	LOD	ug/Kg	J	Ms, Surr, Surr
4,4'-DDT	3.4	U	3.2	MDL	10	LOD	ug/Kg	R	Ms, Surr
ALDRIN	6.7	U	6.1	MDL	20	LOD	ug/Kg	R	Ms, Surr
ALPHA-BHC	6.7	U Q	3.7	MDL	13	LOD	ug/Kg	R	Ms, Ms, Surr
ALPHA-CHLORDANE	6.7	U	4.8	MDL	15	LOD	ug/Kg	R	Ms, Surr
BETA-BHC	6.7	U Q	5.6	MDL	18	LOD	ug/Kg	R	Surr
DELTA-BHC	6.7	U	6.1	MDL	20	LOD	ug/Kg	R	Ms, Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8081A** ***Matrix:*** **SO**

Sample ID: **LL1SB-645M-0101-SO** ***Collected:*** **7/5/2011 11:06:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIELDRIN	3.4	U	2.4	MDL	8.6	LOD	ug/Kg	R	Ms, Surr
ENDOSULFAN I	3.4	U	2.6	MDL	8.6	LOD	ug/Kg	R	Ms, Surr
ENDOSULFAN II	6.7	U	4.1	MDL	13	LOD	ug/Kg	R	Ms, Surr
ENDOSULFAN SULFATE	6.7	U	4.4	MDL	15	LOD	ug/Kg	R	Ms, Surr
ENDRIN	3.4	U	2.5	MDL	8.6	LOD	ug/Kg	R	Ms, Ms, Ms, Surr
ENDRIN ALDEHYDE	34	D	5.1	MDL	15	LOD	ug/Kg	J	Ms, Surr, Surr
ENDRIN KETONE	3.4	U	3.2	MDL	10	LOD	ug/Kg	R	Surr
GAMMA-BHC	6.7	U Q	3.7	MDL	13	LOD	ug/Kg	R	Ms, Surr
GAMMA-CHLORDANE	3.4	U M Q	2.1	MDL	8.6	LOD	ug/Kg	R	Ms, Surr
HEPTACHLOR	6.7	U	5.6	MDL	18	LOD	ug/Kg	R	Ms, Surr
HEPTACHLOR EPOXIDE	6.7	U M	4.0	MDL	13	LOD	ug/Kg	R	Ms, Surr
METHOXYCHLOR	17	U	7.6	MDL	25	LOD	ug/Kg	R	Ms, Surr
TOXAPHENE	100	U M	96	MDL	340	LOD	ug/Kg	R	Surr

Sample ID: **LL1SB-645M-0102-SO** ***Collected:*** **7/5/2011 11:07:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **20**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	14	U	13	MDL	41	LOD	ug/Kg	R	Surr
4,4'-DDE	210	D	7.9	MDL	35	LOD	ug/Kg	J	Ms, Surr
4,4'-DDT	14	U	13	MDL	41	LOD	ug/Kg	R	Ms, Surr
ALDRIN	27	U	24	MDL	81	LOD	ug/Kg	R	Ms, Surr
ALPHA-BHC	27	U Q	15	MDL	51	LOD	ug/Kg	R	Ms, Ms, Surr
ALPHA-CHLORDANE	27	U	19	MDL	61	LOD	ug/Kg	R	Ms, Surr
BETA-BHC	27	U Q	22	MDL	71	LOD	ug/Kg	R	Surr
DELTA-BHC	27	U	24	MDL	81	LOD	ug/Kg	R	Ms, Surr
DIELDRIN	14	U	9.6	MDL	35	LOD	ug/Kg	R	Ms, Surr
ENDOSULFAN I	13	J D	11	MDL	35	LOD	ug/Kg	J	RI, Ms, Surr
ENDOSULFAN II	27	U	17	MDL	51	LOD	ug/Kg	R	Ms, Surr
ENDOSULFAN SULFATE	27	U	18	MDL	61	LOD	ug/Kg	R	Ms, Surr
ENDRIN	16	J D	10	MDL	35	LOD	ug/Kg	J	RI, Ms, Ms, Ms, Surr
ENDRIN ALDEHYDE	420	D	20	MDL	61	LOD	ug/Kg	J	Ms, Surr
ENDRIN KETONE	14	U	13	MDL	41	LOD	ug/Kg	R	Surr
GAMMA-BHC	27	U Q	15	MDL	51	LOD	ug/Kg	R	Ms, Surr
GAMMA-CHLORDANE	650	D Q	8.5	MDL	35	LOD	ug/Kg	J+	Ms, Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8081A** ***Matrix:*** **SO**

Sample ID: **LL1SB-645M-0102-SO** ***Collected:*** **7/5/2011 11:07:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **20**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEPTACHLOR	27	U	22	MDL	71	LOD	ug/Kg	R	Ms, Surr
HEPTACHLOR EPOXIDE	27	U	16	MDL	51	LOD	ug/Kg	R	Ms, Surr
METHOXYCHLOR	67	U	31	MDL	100	LOD	ug/Kg	R	Ms, Surr
TOXAPHENE	410	U M	390	MDL	1400	LOD	ug/Kg	R	Surr

Sample ID: **LL1SB-645M-0103-SO** ***Collected:*** **7/5/2011 11:01:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **20**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	13	U	12	MDL	40	LOD	ug/Kg	R	Surr
4,4'-DDE	670	D J	7.8	MDL	34	LOD	ug/Kg	J	Ms, Surr
4,4'-DDT	20	D J	13	MDL	40	LOD	ug/Kg	J	RI, Ms, Surr
ALDRIN	27	U	24	MDL	80	LOD	ug/Kg	R	Ms, Surr
ALPHA-BHC	27	U Q J	15	MDL	50	LOD	ug/Kg	R	Ms, Ms, Surr
ALPHA-CHLORDANE	27	U	19	MDL	60	LOD	ug/Kg	R	Ms, Surr
BETA-BHC	28	D J Q	22	MDL	70	LOD	ug/Kg	J	RI, Surr
DELTA-BHC	27	U	24	MDL	80	LOD	ug/Kg	R	Ms, Surr
DIELDRIN	13	U J	9.4	MDL	34	LOD	ug/Kg	R	Ms, Surr
ENDOSULFAN I	13	U M J	10	MDL	34	LOD	ug/Kg	R	Ms, Surr
ENDOSULFAN II	27	U	16	MDL	50	LOD	ug/Kg	R	Ms, Surr
ENDOSULFAN SULFATE	27	U	17	MDL	60	LOD	ug/Kg	R	Ms, Surr
ENDRIN	36	D J	10	MDL	34	LOD	ug/Kg	J	Ms, Ms, Ms, Surr
ENDRIN ALDEHYDE	27	U M	20	MDL	60	LOD	ug/Kg	R	Ms, Surr
ENDRIN KETONE	13	U M J	13	MDL	40	LOD	ug/Kg	R	Surr
GAMMA-BHC	27	U Q	15	MDL	50	LOD	ug/Kg	R	Ms, Surr
GAMMA-CHLORDANE	13	U M Q J	8.4	MDL	34	LOD	ug/Kg	R	Ms, Surr
HEPTACHLOR	27	U	22	MDL	70	LOD	ug/Kg	R	Ms, Surr
HEPTACHLOR EPOXIDE	27	U	16	MDL	50	LOD	ug/Kg	R	Ms, Surr
METHOXYCHLOR	66	U	30	MDL	100	LOD	ug/Kg	R	Ms, Surr
TOXAPHENE	400	U M	380	MDL	1300	LOD	ug/Kg	R	Surr

Sample ID: **LL2SS-516M-0001-SO** ***Collected:*** **7/3/2011 9:45:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **20**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	14	U	13	MDL	41	LOD	ug/Kg	R	Surr
4,4'-DDE	19	J D	7.9	MDL	35	LOD	ug/Kg	J	RI, Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8081A** ***Matrix:*** **SO**

Sample ID: **LL2SS-516M-0001-SO** ***Collected:*** **7/3/2011 9:45:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **20**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
4,4'-DDT	14	U	13	MDL	41	LOD	ug/Kg	R	Surr
ALDRIN	27	U	24	MDL	81	LOD	ug/Kg	R	Surr
ALPHA-BHC	27	U J	15	MDL	51	LOD	ug/Kg	R	Ms, Surr
ALPHA-CHLORDANE	27	U J	19	MDL	61	LOD	ug/Kg	R	Ms, Surr
BETA-BHC	27	U J	22	MDL	71	LOD	ug/Kg	R	Ms, Surr
DELTA-BHC	27	U	24	MDL	81	LOD	ug/Kg	R	Surr
DIELDRIN	14	U J	9.6	MDL	35	LOD	ug/Kg	R	Ms, Surr
ENDOSULFAN I	14	U	11	MDL	35	LOD	ug/Kg	R	Surr
ENDOSULFAN II	27	U	17	MDL	51	LOD	ug/Kg	R	Surr
ENDOSULFAN SULFATE	27	U	18	MDL	61	LOD	ug/Kg	R	Surr
ENDRIN	14	U J	10	MDL	35	LOD	ug/Kg	R	Surr
ENDRIN ALDEHYDE	27	U	20	MDL	61	LOD	ug/Kg	R	Surr
ENDRIN KETONE	14	U J	13	MDL	41	LOD	ug/Kg	R	Surr
GAMMA-BHC	27	U J	15	MDL	51	LOD	ug/Kg	R	Ms, Surr
GAMMA-CHLORDANE	9.9	D J	8.6	MDL	35	LOD	ug/Kg	J	RI, Surr
HEPTACHLOR	27	U J	22	MDL	71	LOD	ug/Kg	R	Ms, Ms, Ms, Surr
HEPTACHLOR EPOXIDE	27	U J	16	MDL	51	LOD	ug/Kg	R	Ms, Ms, Surr
METHOXYCHLOR	67	U J	31	MDL	100	LOD	ug/Kg	R	Ms, Surr
TOXAPHENE	410	U M	390	MDL	1400	LOD	ug/Kg	R	Surr

Sample ID: **LL2SS-517M-0001-SO** ***Collected:*** **7/3/2011 9:45:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **50**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
4,4'-DDD	34	U	32	MDL	100	LOD	ug/Kg	R	Surr, Surr
4,4'-DDE	34	U	20	MDL	87	LOD	ug/Kg	R	Ms, Surr, Surr
4,4'-DDT	34	U	32	MDL	100	LOD	ug/Kg	R	Ms, Surr, Surr
ALDRIN	68	U	61	MDL	200	LOD	ug/Kg	R	Ms, Surr, Surr
ALPHA-BHC	68	U Q	37	MDL	130	LOD	ug/Kg	R	Ms, Ms, Surr, Surr
ALPHA-CHLORDANE	68	U	48	MDL	150	LOD	ug/Kg	R	Ms, Surr, Surr
BETA-BHC	68	U Q	56	MDL	180	LOD	ug/Kg	R	Surr, Surr
DELTA-BHC	68	U	61	MDL	200	LOD	ug/Kg	R	Ms, Surr, Surr
DIELDRIN	34	U	24	MDL	87	LOD	ug/Kg	R	Ms, Surr, Surr
ENDOSULFAN I	34	U	27	MDL	87	LOD	ug/Kg	R	Ms, Surr, Surr
ENDOSULFAN II	68	U	42	MDL	130	LOD	ug/Kg	R	Ms, Surr, Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8081A** ***Matrix:*** **SO**

Sample ID: **LL2SS-517M-0001-SO** ***Collected:*** **7/3/2011 9:45:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **50**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
ENDOSULFAN SULFATE	68	U	44	MDL	150	LOD	ug/Kg	R	Ms, Surr, Surr
ENDRIN	34	U	26	MDL	87	LOD	ug/Kg	R	Ms, Ms, Ms, Surr, Surr
ENDRIN ALDEHYDE	68	U	51	MDL	150	LOD	ug/Kg	R	Ms, Surr, Surr
ENDRIN KETONE	34	U	32	MDL	100	LOD	ug/Kg	R	Surr, Surr
GAMMA-BHC	68	U Q	38	MDL	130	LOD	ug/Kg	R	Ms, Surr, Surr
GAMMA-CHLORDANE	34	U Q	21	MDL	87	LOD	ug/Kg	R	Ms, Surr, Surr
HEPTACHLOR	68	U	56	MDL	180	LOD	ug/Kg	R	Ms, Surr, Surr
HEPTACHLOR EPOXIDE	68	U	41	MDL	130	LOD	ug/Kg	R	Ms, Surr, Surr
METHOXYCHLOR	170	U M	77	MDL	260	LOD	ug/Kg	R	Ms, Surr, Surr
TOXAPHENE	1000	U M	970	MDL	3400	LOD	ug/Kg	R	Surr, Surr

Sample ID: **LL3SD-416M-0001-SD** ***Collected:*** **7/2/2011 8:50:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **50**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
4,4'-DDD	34	U	32	MDL	100	LOD	ug/Kg	R	Surr
4,4'-DDE	34	U	20	MDL	87	LOD	ug/Kg	R	Ms, Surr
4,4'-DDT	34	U	32	MDL	100	LOD	ug/Kg	R	Ms, Surr
ALDRIN	68	U	61	MDL	200	LOD	ug/Kg	R	Ms, Surr
ALPHA-BHC	68	U Q	37	MDL	130	LOD	ug/Kg	R	Ms, Ms, Surr
ALPHA-CHLORDANE	68	U	48	MDL	150	LOD	ug/Kg	R	Ms, Surr
BETA-BHC	130	J D	56	MDL	180	LOD	ug/Kg	J	RI, Surr
DELTA-BHC	68	U	61	MDL	200	LOD	ug/Kg	R	Ms, Surr
DIELDRIN	34	U	24	MDL	87	LOD	ug/Kg	R	Ms, Surr
ENDOSULFAN I	34	U	27	MDL	87	LOD	ug/Kg	R	Ms, Surr
ENDOSULFAN II	68	U	42	MDL	130	LOD	ug/Kg	R	Ms, Surr
ENDOSULFAN SULFATE	68	U	44	MDL	150	LOD	ug/Kg	R	Ms, Surr
ENDRIN	34	U	25	MDL	87	LOD	ug/Kg	R	Ms, Ms, Ms, Surr
ENDRIN ALDEHYDE	68	U	51	MDL	150	LOD	ug/Kg	R	Ms, Surr
ENDRIN KETONE	34	U	32	MDL	100	LOD	ug/Kg	R	Surr
GAMMA-BHC	68	U Q	38	MDL	130	LOD	ug/Kg	R	Ms, Surr
GAMMA-CHLORDANE	34	U Q	21	MDL	87	LOD	ug/Kg	R	Ms, Surr
HEPTACHLOR	68	U	56	MDL	180	LOD	ug/Kg	R	Ms, Surr
HEPTACHLOR EPOXIDE	68	U	41	MDL	130	LOD	ug/Kg	R	Ms, Surr
METHOXYCHLOR	170	U	76	MDL	250	LOD	ug/Kg	R	Ms, Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: LL3SD-416M-0001-SD **Collected:** 7/2/2011 8:50:00 AM **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOXAPHENE	1000	U M	970	MDL	3400	LOD	ug/Kg	R	Surr

Sample ID: LL3SD-417M-0001-SD **Collected:** 7/2/2011 8:50:00 AM **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	34	U	32	MDL	100	LOD	ug/Kg	R	Surr, Surr
4,4'-DDE	34	U	20	MDL	87	LOD	ug/Kg	R	Ms, Surr, Surr
4,4'-DDT	34	U	32	MDL	100	LOD	ug/Kg	R	Ms, Surr, Surr
ALDRIN	68	U	61	MDL	200	LOD	ug/Kg	R	Ms, Surr, Surr
ALPHA-BHC	68	U Q	37	MDL	130	LOD	ug/Kg	R	Ms, Ms, Surr, Surr
ALPHA-CHLORDANE	68	U	48	MDL	150	LOD	ug/Kg	R	Ms, Surr, Surr
BETA-BHC	130	J D Q	56	MDL	180	LOD	ug/Kg	J	RI, Surr, Surr
DELTA-BHC	68	U	61	MDL	200	LOD	ug/Kg	R	Ms, Surr, Surr
DIELDRIN	34	U	24	MDL	87	LOD	ug/Kg	R	Ms, Surr, Surr
ENDOSULFAN I	34	U	27	MDL	87	LOD	ug/Kg	R	Ms, Surr, Surr
ENDOSULFAN II	68	U	42	MDL	130	LOD	ug/Kg	R	Ms, Surr, Surr
ENDOSULFAN SULFATE	68	U	44	MDL	150	LOD	ug/Kg	R	Ms, Surr, Surr
ENDRIN	34	U	26	MDL	87	LOD	ug/Kg	R	Ms, Ms, Ms, Surr, Surr
ENDRIN ALDEHYDE	68	U	51	MDL	150	LOD	ug/Kg	R	Ms, Surr, Surr
ENDRIN KETONE	34	U	32	MDL	100	LOD	ug/Kg	R	Surr, Surr
GAMMA-BHC	68	U Q	38	MDL	130	LOD	ug/Kg	R	Ms, Surr, Surr
GAMMA-CHLORDANE	34	U Q	21	MDL	87	LOD	ug/Kg	R	Ms, Surr, Surr
HEPTACHLOR	68	U	56	MDL	180	LOD	ug/Kg	R	Ms, Surr, Surr
HEPTACHLOR EPOXIDE	68	U	41	MDL	130	LOD	ug/Kg	R	Ms, Surr, Surr
METHOXYCHLOR	170	U	77	MDL	260	LOD	ug/Kg	R	Ms, Surr, Surr
TOXAPHENE	1000	U M	970	MDL	3400	LOD	ug/Kg	R	Surr, Surr

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: L12SS-300M-0001-SO **Collected:** 7/3/2011 11:15:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	130	U	110	MDL	330	LOD	ug/Kg	R	Ms, Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8082** ***Matrix:*** **SO**

Sample ID: **L12SS-300M-0001-SO** ***Collected:*** **7/3/2011 11:15:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1221	130	U	82	MDL	260	LOD	ug/Kg	R	Surr
AROCLOR 1232	130	U	72	MDL	230	LOD	ug/Kg	R	Surr
AROCLOR 1242	130	U	67	MDL	210	LOD	ug/Kg	R	Surr
AROCLOR 1248	130	U	87	MDL	280	LOD	ug/Kg	R	Surr
AROCLOR 1254	130	U	87	MDL	280	LOD	ug/Kg	R	Surr
AROCLOR 1260	770	D	87	MDL	280	LOD	ug/Kg	J	Ms, Surr

Sample ID: **L12SS-301M-0001-SO** ***Collected:*** **7/3/2011 11:15:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	130	U	110	MDL	330	LOD	ug/Kg	R	Ms, Surr
AROCLOR 1221	130	U	82	MDL	260	LOD	ug/Kg	R	Surr
AROCLOR 1232	130	U	72	MDL	230	LOD	ug/Kg	R	Surr
AROCLOR 1242	130	U	67	MDL	210	LOD	ug/Kg	R	Surr
AROCLOR 1248	130	U	87	MDL	280	LOD	ug/Kg	R	Surr
AROCLOR 1254	130	U	87	MDL	280	LOD	ug/Kg	R	Surr
AROCLOR 1260	930	D	87	MDL	280	LOD	ug/Kg	J	Ms, Surr

Sample ID: **LL1SB-644M-0101-SO** ***Collected:*** **7/5/2011 11:00:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	120	U	110	MDL	330	LOD	ug/Kg	R	Ms
AROCLOR 1254	790	D	85	MDL	280	LOD	ug/Kg	J+	Surr
AROCLOR 1260	120	U	85	MDL	280	LOD	ug/Kg	R	Ms

Sample ID: **LL1SB-644M-0102-SO** ***Collected:*** **7/5/2011 10:57:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **50**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	1300	U	1100	MDL	3300	LOD	ug/Kg	R	Ms, Surr
AROCLOR 1221	1300	U	810	MDL	2500	LOD	ug/Kg	R	Surr
AROCLOR 1232	1300	U	710	MDL	2300	LOD	ug/Kg	R	Surr
AROCLOR 1242	1300	U	660	MDL	2000	LOD	ug/Kg	R	Surr
AROCLOR 1248	1300	U	860	MDL	2800	LOD	ug/Kg	R	Surr
AROCLOR 1254	14000	D	860	MDL	2800	LOD	ug/Kg	J-	Surr
AROCLOR 1260	1300	U	860	MDL	2800	LOD	ug/Kg	R	Ms, Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8082** ***Matrix:*** **SO**

Sample ID: **LL1SB-644M-0103-SO** ***Collected:*** **7/5/2011 11:07:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	250	U	210	MDL	650	LOD	ug/Kg	R	Ms, Surr
AROCLOR 1221	250	U	160	MDL	500	LOD	ug/Kg	R	Surr
AROCLOR 1232	250	U	140	MDL	450	LOD	ug/Kg	R	Surr
AROCLOR 1242	250	U	130	MDL	400	LOD	ug/Kg	R	Surr
AROCLOR 1248	250	U	170	MDL	550	LOD	ug/Kg	R	Surr
AROCLOR 1254	1800	D	170	MDL	550	LOD	ug/Kg	J-	Surr
AROCLOR 1260	250	U	170	MDL	550	LOD	ug/Kg	R	Ms, Surr

Sample ID: **LL1SB-645M-0101-SO** ***Collected:*** **7/5/2011 11:06:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	130	U	110	MDL	330	LOD	ug/Kg	R	Ms
AROCLOR 1260	130	U	86	MDL	280	LOD	ug/Kg	R	Ms

Sample ID: **LL1SB-645M-0102-SO** ***Collected:*** **7/5/2011 11:07:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **100**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	2500	U	2100	MDL	6600	LOD	ug/Kg	R	Ms, Surr
AROCLOR 1221	2500	U	1600	MDL	5100	LOD	ug/Kg	R	Surr
AROCLOR 1232	2500	U	1400	MDL	4600	LOD	ug/Kg	R	Surr
AROCLOR 1242	2500	U	1300	MDL	4100	LOD	ug/Kg	R	Surr
AROCLOR 1248	2500	U	1700	MDL	5600	LOD	ug/Kg	R	Surr
AROCLOR 1254	18000	D	1700	MDL	5600	LOD	ug/Kg	J-	Surr
AROCLOR 1260	2500	U	1700	MDL	5600	LOD	ug/Kg	R	Ms, Surr

Sample ID: **LL1SB-645M-0103-SO** ***Collected:*** **7/5/2011 11:01:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	25	U	21	MDL	65	LOD	ug/Kg	R	Ms
AROCLOR 1260	25	U	17	MDL	55	LOD	ug/Kg	R	Ms

Sample ID: **LL2SS-516M-0001-SO** ***Collected:*** **7/3/2011 9:45:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	130	U	110	MDL	330	LOD	ug/Kg	R	Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8082** ***Matrix:*** **SO**

Sample ID: **LL2SS-516M-0001-SO** ***Collected:*** **7/3/2011 9:45:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1221	130	U	81	MDL	250	LOD	ug/Kg	R	Surr
AROCLOR 1232	130	U	71	MDL	230	LOD	ug/Kg	R	Surr
AROCLOR 1242	130	U	66	MDL	200	LOD	ug/Kg	R	Surr
AROCLOR 1248	130	U	87	MDL	280	LOD	ug/Kg	R	Surr
AROCLOR 1254	670	D	87	MDL	280	LOD	ug/Kg	J+	Surr
AROCLOR 1260	130	U J	87	MDL	280	LOD	ug/Kg	R	Ms, Surr

Sample ID: **LL2SS-517M-0001-SO** ***Collected:*** **7/3/2011 9:45:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	25	U	21	MDL	66	LOD	ug/Kg	R	Ms, Surr
AROCLOR 1221	25	U	16	MDL	51	LOD	ug/Kg	UJ	Surr
AROCLOR 1232	25	U	14	MDL	46	LOD	ug/Kg	UJ	Surr
AROCLOR 1242	25	U	13	MDL	41	LOD	ug/Kg	UJ	Surr
AROCLOR 1248	25	U	17	MDL	56	LOD	ug/Kg	UJ	Surr
AROCLOR 1254	250		17	MDL	56	LOD	ug/Kg	UJ	Surr, Fb
AROCLOR 1260	25	U	17	MDL	56	LOD	ug/Kg	R	Ms, Surr

Sample ID: **LL2SS-519M-0001-SO** ***Collected:*** **7/2/2011 4:15:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	130	U	110	MDL	330	LOD	ug/Kg	R	Surr
AROCLOR 1221	130	U	82	MDL	250	LOD	ug/Kg	R	Surr
AROCLOR 1232	130	U	71	MDL	230	LOD	ug/Kg	R	Surr
AROCLOR 1242	130	U	66	MDL	200	LOD	ug/Kg	R	Surr
AROCLOR 1248	130	U	87	MDL	280	LOD	ug/Kg	R	Surr
AROCLOR 1254	490	D	87	MDL	280	LOD	ug/Kg	J+	Surr
AROCLOR 1260	130	U	87	MDL	280	LOD	ug/Kg	R	Ms, Surr

Sample ID: **LL3SD-416M-0001-SD** ***Collected:*** **7/2/2011 8:50:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	25	U	21	MDL	66	LOD	ug/Kg	R	Ms
AROCLOR 1254	44	J	17	MDL	56	LOD	ug/Kg	J	RI, Surr
AROCLOR 1260	25	U	17	MDL	56	LOD	ug/Kg	R	Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: LL3SD-417M-0001-SD **Collected:** 7/2/2011 8:50:00 AM **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	25	U	21	MDL	66	LOD	ug/Kg	R	Ms, Surr
AROCLOR 1221	25	U	16	MDL	51	LOD	ug/Kg	R	Surr
AROCLOR 1232	25	U	14	MDL	46	LOD	ug/Kg	R	Surr
AROCLOR 1242	25	U	13	MDL	41	LOD	ug/Kg	R	Surr
AROCLOR 1248	25	U	17	MDL	56	LOD	ug/Kg	R	Surr
AROCLOR 1254	86		17	MDL	56	LOD	ug/Kg	J+	Surr
AROCLOR 1260	25	U	17	MDL	56	LOD	ug/Kg	R	Ms, Surr

Method Category: SVOA

Method: 8270C **Matrix: AQ**

Sample ID: EQUIP RINSATE 2-1-11 **Collected:** 7/6/2011 9:00:00 AM **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	0.78	U	0.27	MDL	0.97	LOD	ug/L	UJ	Surr
1,2-DICHLOROBENZENE	0.78	U	0.28	MDL	0.97	LOD	ug/L	UJ	Surr
1,3-DICHLOROBENZENE	0.78	U	0.78	MDL	0.97	LOD	ug/L	UJ	Surr
1,4-DICHLOROBENZENE	0.78	U	0.33	MDL	0.97	LOD	ug/L	UJ	Surr
2,4-DINITROTOLUENE	0.78	U	0.26	MDL	4.9	LOD	ug/L	UJ	Surr
2,6-DINITROTOLUENE	0.78	U	0.78	MDL	4.9	LOD	ug/L	UJ	Surr
2-CHLORONAPHTHALENE	0.097	U	0.097	MDL	0.97	LOD	ug/L	UJ	Surr
2-METHYLNAPHTHALENE	0.097	U	0.097	MDL	0.19	LOD	ug/L	UJ	Surr
2-NITROANILINE	0.78	U	0.78	MDL	1.9	LOD	ug/L	UJ	Surr
3,3'-DICHLOROBENZIDINE	0.78	U	0.36	MDL	4.9	LOD	ug/L	UJ	Surr
3-NITROANILINE	0.78	U	0.27	MDL	1.9	LOD	ug/L	UJ	Surr
4-BROMOPHENYL-PHENYLETHER	0.78	U	0.78	MDL	1.9	LOD	ug/L	UJ	Surr
4-CHLOROANILINE	0.78	U	0.78	MDL	1.9	LOD	ug/L	UJ	Surr
4-CHLOROPHENYL-PHENYLETHER	0.78	U	0.29	MDL	1.9	LOD	ug/L	UJ	Surr
4-NITROANILINE	0.78	U	0.78	MDL	1.9	LOD	ug/L	UJ	Surr
ACENAPHTHENE	0.097	U	0.097	MDL	0.19	LOD	ug/L	UJ	Surr
ACENAPHTHYLENE	0.097	U	0.097	MDL	0.19	LOD	ug/L	UJ	Surr
ANTHRACENE	0.097	U	0.097	MDL	0.19	LOD	ug/L	UJ	Surr
BENZO(A)ANTHRACENE	0.097	U	0.097	MDL	0.19	LOD	ug/L	UJ	Surr
BENZO(A)PYRENE	0.097	U Q	0.097	MDL	0.19	LOD	ug/L	UJ	Lcs, Surr

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8270C** ***Matrix:*** **AQ**

Sample ID: **EQUIP RINSATE 2-1-11** ***Collected:*** **7/6/2011 9:00:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
BENZO(B)FLUORANTHENE	0.097	U	0.097	MDL	0.19	LOD	ug/L	UJ	Surr
BENZO(G,H,I)PERYLENE	0.097	U	0.097	MDL	0.19	LOD	ug/L	UJ	Surr
BENZO(K)FLUORANTHENE	0.097	U	0.097	MDL	0.19	LOD	ug/L	UJ	Surr
BENZYL ALCOHOL	0.78	U	0.37	MDL	4.9	LOD	ug/L	UJ	Surr
BIS(2-CHLOROETHOXY)METHANE	0.78	U	0.31	MDL	0.97	LOD	ug/L	UJ	Surr
BIS(2-CHLOROETHYL) ETHER	0.097	U	0.097	MDL	0.97	LOD	ug/L	UJ	Surr
BIS(2-CHLOROISOPROPYL) ETHER	0.78	U	0.39	MDL	0.97	LOD	ug/L	UJ	Surr
BIS(2-ETHYLHEXYL) PHTHALATE	2.2	B	0.78	MDL	1.9	LOD	ug/L	UJ	Mb, Surr
BUTYLBENZYL PHTHALATE	0.78	U	0.78	MDL	0.97	LOD	ug/L	UJ	Surr
CARBAZOLE	0.78	U	0.27	MDL	0.97	LOD	ug/L	UJ	Surr
CHRYSENE	0.097	U	0.097	MDL	0.19	LOD	ug/L	UJ	Surr
DIBENZO(A,H)ANTHRACENE	0.097	U	0.097	MDL	0.19	LOD	ug/L	UJ	Surr
DIBENZOFURAN	0.097	U	0.097	MDL	0.97	LOD	ug/L	UJ	Surr
DIETHYL PHTHALATE	0.78	U	0.58	MDL	0.97	LOD	ug/L	UJ	Surr
DIMETHYL PHTHALATE	0.78	U	0.28	MDL	0.97	LOD	ug/L	UJ	Surr
DI-N-BUTYL PHTHALATE	0.78	U	0.65	MDL	0.97	LOD	ug/L	UJ	Surr
DI-N-OCTYL PHTHALATE	0.78	U	0.78	MDL	0.97	LOD	ug/L	UJ	Surr
FLUORANTHENE	0.097	U	0.097	MDL	0.19	LOD	ug/L	UJ	Surr
FLUORENE	0.097	U	0.097	MDL	0.19	LOD	ug/L	UJ	Surr
HEXACHLOROBENZENE	0.097	U	0.097	MDL	0.19	LOD	ug/L	UJ	Surr
HEXACHLOROBUTADIENE	0.78	U	0.26	MDL	0.97	LOD	ug/L	UJ	Surr
HEXACHLOROCYCLOPENTADIENE	0.78	U	0.78	MDL	9.7	LOD	ug/L	UJ	Surr
HEXACHLOROETHANE	0.78	U	0.78	MDL	0.97	LOD	ug/L	UJ	Surr
INDENO(1,2,3-CD)PYRENE	0.097	U	0.097	MDL	0.19	LOD	ug/L	UJ	Surr
ISOPHORONE	0.78	U	0.26	MDL	0.97	LOD	ug/L	UJ	Surr
NAPHTHALENE	0.097	U	0.097	MDL	0.19	LOD	ug/L	UJ	Surr
NITROBENZENE	0.097	U	0.039	MDL	0.97	LOD	ug/L	UJ	Surr
N-NITROSO-DI-N-PROPYLAMINE	0.78	U	0.78	MDL	0.97	LOD	ug/L	UJ	Surr
N-NITROSODIPHENYLAMINE	0.78	U	0.30	MDL	0.97	LOD	ug/L	UJ	Surr
PHENANTHRENE	0.097	U	0.097	MDL	0.19	LOD	ug/L	UJ	Surr
PYRENE	0.097	U	0.097	MDL	0.19	LOD	ug/L	UJ	Surr

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8270C** ***Matrix:*** **SO**

Sample ID: **L12SS-300M-0001-SO** ***Collected:*** **7/3/2011 11:15:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **12.5**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,4-TRICHLOROBENZENE	350	U Q	350	MDL	640	LOD	ug/Kg	UJ	Lcs
1,2-DICHLOROBENZENE	350	U Q	120	MDL	640	LOD	ug/Kg	UJ	Lcs
1,3-DICHLOROBENZENE	350	U Q	140	MDL	640	LOD	ug/Kg	UJ	Lcs
2,4,5-TRICHLOROPHENOL	350	U Q	320	MDL	1900	LOD	ug/Kg	UJ	Lcs
2,4,6-TRICHLOROPHENOL	1000	U Q	1000	MDL	1900	LOD	ug/Kg	UJ	Lcs
ANTHRACENE	2300	D	42	MDL	85	LOD	ug/Kg	J-	Ms
BENZO(A)ANTHRACENE	5000	D	42	MDL	85	LOD	ug/Kg	J-	Ms
BENZO(A)PYRENE	4500	D	42	MDL	85	LOD	ug/Kg	J-	Ms
BENZO(B)FLUORANTHENE	5200	D M	42	MDL	85	LOD	ug/Kg	J-	Ms
BENZO(G,H,I)PERYLENE	2600	D	42	MDL	85	LOD	ug/Kg	J-	Ms, Ms
BENZO(K)FLUORANTHENE	3600	D M	42	MDL	85	LOD	ug/Kg	J-	Ms, Ms
CHRYSENE	5400	D	14	MDL	85	LOD	ug/Kg	J-	Ms
DIBENZOFURAN	450	J D	42	MDL	640	LOD	ug/Kg	J	RI
FLUORANTHENE	11000	D	42	MDL	85	LOD	ug/Kg	J-	Ms
FLUORENE	740	D	42	MDL	85	LOD	ug/Kg	J-	Ms
HEXACHLOROBUTADIENE	350	U Q	350	MDL	640	LOD	ug/Kg	UJ	Lcs
HEXACHLOROCYCLOPENTADIENE	350	U	350	MDL	4200	LOD	ug/Kg	UJ	Lcs
INDENO(1,2,3-CD)PYRENE	2600	D	42	MDL	85	LOD	ug/Kg	J-	Ms
PHENANTHRENE	6400	D	42	MDL	85	LOD	ug/Kg	J-	Ms
PYRENE	9000	D	42	MDL	85	LOD	ug/Kg	J-	Ms

Sample ID: **L12SS-301M-0001-SO** ***Collected:*** **7/3/2011 11:15:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **20**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,4-TRICHLOROBENZENE	550	U Q	550	MDL	1000	LOD	ug/Kg	UJ	Lcs
1,2-DICHLOROBENZENE	550	U Q	200	MDL	1000	LOD	ug/Kg	UJ	Lcs
1,3-DICHLOROBENZENE	550	U Q	230	MDL	1000	LOD	ug/Kg	UJ	Lcs
2,4,5-TRICHLOROPHENOL	550	U Q	510	MDL	3100	LOD	ug/Kg	UJ	Lcs
2,4,6-TRICHLOROPHENOL	1600	U Q	1600	MDL	3100	LOD	ug/Kg	UJ	Lcs
ANTHRACENE	3700	D	68	MDL	140	LOD	ug/Kg	J-	Ms
BENZO(A)ANTHRACENE	8300	D	68	MDL	140	LOD	ug/Kg	J-	Ms
BENZO(A)PYRENE	6800	D	68	MDL	140	LOD	ug/Kg	J-	Ms
BENZO(B)FLUORANTHENE	8500	D M	68	MDL	140	LOD	ug/Kg	J-	Ms
BENZO(G,H,I)PERYLENE	3800	D	68	MDL	140	LOD	ug/Kg	J-	Ms, Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8270C** ***Matrix:*** **SO**

Sample ID: **L12SS-301M-0001-SO** ***Collected:*** **7/3/2011 11:15:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **20**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	4400	D M	68	MDL	140	LOD	ug/Kg	J-	Ms, Ms
CARBAZOLE	980	J D	550	MDL	1000	LOD	ug/Kg	J	RI
CHRYSENE	8100	D	23	MDL	140	LOD	ug/Kg	J-	Ms
DIBENZOFURAN	660	J D	68	MDL	1000	LOD	ug/Kg	J	RI
FLUORANTHENE	16000	D	68	MDL	140	LOD	ug/Kg	J-	Ms
FLUORENE	880	D	68	MDL	140	LOD	ug/Kg	J-	Ms
HEXACHLOROBUTADIENE	550	U Q	550	MDL	1000	LOD	ug/Kg	UJ	Lcs
HEXACHLOROCYCLOPENTADIENE	550	U	550	MDL	6800	LOD	ug/Kg	UJ	Lcs
INDENO(1,2,3-CD)PYRENE	3700	D	68	MDL	140	LOD	ug/Kg	J-	Ms
PHENANTHRENE	8700	D	68	MDL	140	LOD	ug/Kg	J-	Ms
PYRENE	13000	D	68	MDL	140	LOD	ug/Kg	J-	Ms

Sample ID: **LL1SB-643M-0101-SO** ***Collected:*** **7/5/2011 2:45:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **4**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	13	U	13	MDL	27	LOD	ug/Kg	R	Ms
BENZO(A)ANTHRACENE	32		13	MDL	27	LOD	ug/Kg	J-	Ms
BENZO(A)PYRENE	29		13	MDL	27	LOD	ug/Kg	J-	Ms
BENZO(B)FLUORANTHENE	31	M	13	MDL	27	LOD	ug/Kg	J-	Ms
BENZO(G,H,I)PERYLENE	13	U	13	MDL	27	LOD	ug/Kg	R	Ms, Ms
BENZO(K)FLUORANTHENE	13	U	13	MDL	27	LOD	ug/Kg	R	Ms, Ms
CHRYSENE	32		4.4	MDL	27	LOD	ug/Kg	J-	Ms
FLUORANTHENE	70		13	MDL	27	LOD	ug/Kg	J-	Ms
FLUORENE	13	U	13	MDL	27	LOD	ug/Kg	UJ	Ms
INDENO(1,2,3-CD)PYRENE	13	U	13	MDL	27	LOD	ug/Kg	UJ	Ms
PHENANTHRENE	58		13	MDL	27	LOD	ug/Kg	J-	Ms
PYRENE	59		13	MDL	27	LOD	ug/Kg	J-	Ms

Sample ID: **LL1SB-643M-0102-SO** ***Collected:*** **7/5/2011 2:45:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	R	Ms
BENZO(A)ANTHRACENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	R	Ms
BENZO(A)PYRENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	R	Ms
BENZO(B)FLUORANTHENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	R	Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8270C** ***Matrix:*** **SO**

Sample ID: **LL1SB-643M-0102-SO** ***Collected:*** **7/5/2011 2:45:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	R	Ms, Ms
BENZO(K)FLUORANTHENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	R	Ms, Ms
CHRYSENE	3.3	U	1.1	MDL	6.7	LOD	ug/Kg	R	Ms
FLUORANTHENE	11		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms
FLUORENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	UJ	Ms
INDENO(1,2,3-CD)PYRENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	UJ	Ms
PHENANTHRENE	12		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms
PYRENE	14		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms

Sample ID: **LL1SB-643M-0103-SO** ***Collected:*** **7/5/2011 2:47:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	33	U	33	MDL	67	LOD	ug/Kg	R	Ms
BENZO(A)ANTHRACENE	33	U	33	MDL	67	LOD	ug/Kg	R	Ms
BENZO(A)PYRENE	33	U	33	MDL	67	LOD	ug/Kg	R	Ms
BENZO(B)FLUORANTHENE	33	U	33	MDL	67	LOD	ug/Kg	R	Ms
BENZO(G,H,I)PERYLENE	33	U	33	MDL	67	LOD	ug/Kg	R	Ms, Ms
BENZO(K)FLUORANTHENE	33	U	33	MDL	67	LOD	ug/Kg	R	Ms, Ms
CHRYSENE	33	U	11	MDL	67	LOD	ug/Kg	R	Ms
FLUORANTHENE	100	D	33	MDL	67	LOD	ug/Kg	J-	Ms
FLUORENE	33	U	33	MDL	67	LOD	ug/Kg	UJ	Ms
INDENO(1,2,3-CD)PYRENE	33	U	33	MDL	67	LOD	ug/Kg	UJ	Ms
PHENANTHRENE	110	D	33	MDL	67	LOD	ug/Kg	J-	Ms
PYRENE	83	D	33	MDL	67	LOD	ug/Kg	J-	Ms

Sample ID: **LL1SB-644M-0101-SO** ***Collected:*** **7/5/2011 11:00:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	27	U Q	27	MDL	50	LOD	ug/Kg	UJ	Lcs
1,2-DICHLOROBENZENE	27	U Q	9.7	MDL	50	LOD	ug/Kg	UJ	Lcs
1,3-DICHLOROBENZENE	27	U Q	11	MDL	50	LOD	ug/Kg	UJ	Lcs
2,4,5-TRICHLOROPHENOL	27	U Q	25	MDL	150	LOD	ug/Kg	UJ	Lcs
2,4,6-TRICHLOROPHENOL	80	U Q	80	MDL	150	LOD	ug/Kg	UJ	Lcs
ANTHRACENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	R	Ms
BENZO(A)ANTHRACENE	21		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8270C** ***Matrix:*** **SO**

Sample ID: **LL1SB-644M-0101-SO** ***Collected:*** **7/5/2011 11:00:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	19		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms
BENZO(B)FLUORANTHENE	28	M	3.3	MDL	6.7	LOD	ug/Kg	J-	Ms
BENZO(G,H,I)PERYLENE	19	M	3.3	MDL	6.7	LOD	ug/Kg	J-	Ms, Ms
BENZO(K)FLUORANTHENE	15	M	3.3	MDL	6.7	LOD	ug/Kg	J-	Ms, Ms
CHRYSENE	21		1.1	MDL	6.7	LOD	ug/Kg	J-	Ms
DI-N-BUTYL PHTHALATE	37	J	15	MDL	50	LOD	ug/Kg	J	RI
FLUORANTHENE	41		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms
FLUORENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	UJ	Ms
HEXACHLOROBUTADIENE	27	U Q	27	MDL	50	LOD	ug/Kg	UJ	Lcs
HEXACHLOROCYCLOPENTADIENE	27	U	27	MDL	330	LOD	ug/Kg	UJ	Lcs
INDENO(1,2,3-CD)PYRENE	14		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms
PHENANTHRENE	25		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms
PYRENE	34		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms

Sample ID: **LL1SB-644M-0102-SO** ***Collected:*** **7/5/2011 10:57:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	27	U Q	27	MDL	51	LOD	ug/Kg	UJ	Lcs
1,2-DICHLOROBENZENE	27	U Q	9.9	MDL	51	LOD	ug/Kg	UJ	Lcs
1,3-DICHLOROBENZENE	27	U Q	11	MDL	51	LOD	ug/Kg	UJ	Lcs
2,4,5-TRICHLOROPHENOL	27	U Q	25	MDL	150	LOD	ug/Kg	UJ	Lcs
2,4,6-TRICHLOROPHENOL	81	U Q	81	MDL	150	LOD	ug/Kg	UJ	Lcs
ANTHRACENE	60		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(A)ANTHRACENE	130		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(A)PYRENE	100		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(B)FLUORANTHENE	150	M	3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(G,H,I)PERYLENE	65		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms, Ms
BENZO(K)FLUORANTHENE	60	M	3.4	MDL	6.8	LOD	ug/Kg	J-	Ms, Ms
CHRYSENE	120		1.1	MDL	6.8	LOD	ug/Kg	J-	Ms
DIETHYL PHTHALATE	33	J	16	MDL	51	LOD	ug/Kg	J	RI
DI-N-BUTYL PHTHALATE	27	J	15	MDL	51	LOD	ug/Kg	J	RI
FLUORANTHENE	340		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
FLUORENE	23		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
HEXACHLOROBUTADIENE	27	U Q	27	MDL	51	LOD	ug/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: LL1SB-644M-0102-SO **Collected:** 7/5/2011 10:57:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXACHLOROCYCLOPENTADIENE	27	U	27	MDL	340	LOD	ug/Kg	UJ	Lcs
INDENO(1,2,3-CD)PYRENE	59		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
PHENANTHRENE	230		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
PHENOL	31	J	27	MDL	51	LOD	ug/Kg	J	RI
PYRENE	270		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms

Sample ID: LL1SB-644M-0103-SO **Collected:** 7/5/2011 11:07:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	27	U Q	27	MDL	50	LOD	ug/Kg	UJ	Lcs
1,2-DICHLOROBENZENE	27	U Q	9.7	MDL	50	LOD	ug/Kg	UJ	Lcs
1,3-DICHLOROBENZENE	27	U Q	11	MDL	50	LOD	ug/Kg	UJ	Lcs
2,4,5-TRICHLOROPHENOL	27	U Q	25	MDL	150	LOD	ug/Kg	UJ	Lcs
2,4,6-TRICHLOROPHENOL	80	U Q	80	MDL	150	LOD	ug/Kg	UJ	Lcs
ANTHRACENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	R	Ms
BENZO(A)ANTHRACENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	R	Ms
BENZO(A)PYRENE	7.1		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms
BENZO(B)FLUORANTHENE	10		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms
BENZO(G,H,I)PERYLENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	R	Ms, Ms
BENZO(K)FLUORANTHENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	R	Ms, Ms
CHRYSENE	3.3	U	1.1	MDL	6.7	LOD	ug/Kg	R	Ms
DIETHYL PHTHALATE	25	J	16	MDL	50	LOD	ug/Kg	J	RI
DI-N-BUTYL PHTHALATE	19	J	15	MDL	50	LOD	ug/Kg	J	RI
FLUORANTHENE	18		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms
FLUORENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	UJ	Ms
HEXACHLOROBUTADIENE	27	U Q	27	MDL	50	LOD	ug/Kg	UJ	Lcs
HEXACHLOROCYCLOPENTADIENE	27	U	27	MDL	330	LOD	ug/Kg	UJ	Lcs
INDENO(1,2,3-CD)PYRENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	UJ	Ms
ISOPHORONE	15	J	13	MDL	50	LOD	ug/Kg	J	RI
PHENANTHRENE	16		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms
PYRENE	13		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8270C** ***Matrix:*** **SO**

Sample ID: **LL1SB-645M-0101-SO** ***Collected:*** **7/5/2011 11:06:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,4-TRICHLOROBENZENE	27	U Q	27	MDL	50	LOD	ug/Kg	UJ	Lcs
1,2-DICHLOROBENZENE	27	U Q	9.8	MDL	50	LOD	ug/Kg	UJ	Lcs
1,3-DICHLOROBENZENE	27	U Q	11	MDL	50	LOD	ug/Kg	UJ	Lcs
2,4,5-TRICHLOROPHENOL	27	U Q	25	MDL	150	LOD	ug/Kg	UJ	Lcs
2,4,6-TRICHLOROPHENOL	81	U Q	81	MDL	150	LOD	ug/Kg	UJ	Lcs
ANTHRACENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	R	Ms
BENZO(A)ANTHRACENE	19		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms
BENZO(A)PYRENE	19		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms
BENZO(B)FLUORANTHENE	28	M	3.3	MDL	6.7	LOD	ug/Kg	J-	Ms
BENZO(G,H,I)PERYLENE	23	M	3.3	MDL	6.7	LOD	ug/Kg	J-	Ms, Ms
BENZO(K)FLUORANTHENE	14	M	3.3	MDL	6.7	LOD	ug/Kg	J-	Ms, Ms
CHRYSENE	24		1.1	MDL	6.7	LOD	ug/Kg	J-	Ms
DI-N-BUTYL PHTHALATE	35	J	15	MDL	50	LOD	ug/Kg	J	RI
FLUORANTHENE	47		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms
FLUORENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	UJ	Ms
HEXACHLOROBUTADIENE	27	U Q	27	MDL	50	LOD	ug/Kg	UJ	Lcs
HEXACHLOROCYCLOPENTADIENE	27	U	27	MDL	330	LOD	ug/Kg	UJ	Lcs
INDENO(1,2,3-CD)PYRENE	13		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms
PHENANTHRENE	27		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms
PYRENE	35		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms

Sample ID: **LL1SB-645M-0102-SO** ***Collected:*** **7/5/2011 11:07:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,4-TRICHLOROBENZENE	27	U Q	27	MDL	51	LOD	ug/Kg	UJ	Lcs
1,2-DICHLOROBENZENE	27	U Q	9.8	MDL	51	LOD	ug/Kg	UJ	Lcs
1,3-DICHLOROBENZENE	27	U Q	11	MDL	51	LOD	ug/Kg	UJ	Lcs
2,4,5-TRICHLOROPHENOL	27	U Q	25	MDL	150	LOD	ug/Kg	UJ	Lcs
2,4,6-TRICHLOROPHENOL	81	U Q	81	MDL	150	LOD	ug/Kg	UJ	Lcs
ANTHRACENE	58		3.3	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(A)ANTHRACENE	120		3.3	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(A)PYRENE	99		3.3	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(B)FLUORANTHENE	130	M	3.3	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(G,H,I)PERYLENE	62		3.3	MDL	6.8	LOD	ug/Kg	J-	Ms, Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8270C** ***Matrix:*** **SO**

Sample ID: **LL1SB-645M-0102-SO** ***Collected:*** **7/5/2011 11:07:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	62	M	3.3	MDL	6.8	LOD	ug/Kg	J-	Ms, Ms
CHRYSENE	120		1.1	MDL	6.8	LOD	ug/Kg	J-	Ms
DIBENZOFURAN	16	J	3.3	MDL	51	LOD	ug/Kg	J	RI
DIETHYL PHTHALATE	26	J	16	MDL	51	LOD	ug/Kg	J	RI
DI-N-BUTYL PHTHALATE	23	J	15	MDL	51	LOD	ug/Kg	J	RI
FLUORANTHENE	300		3.3	MDL	6.8	LOD	ug/Kg	J-	Ms
FLUORENE	23		3.3	MDL	6.8	LOD	ug/Kg	J-	Ms
HEXACHLOROBUTADIENE	27	U Q	27	MDL	51	LOD	ug/Kg	UJ	Lcs
HEXACHLOROCYCLOPENTADIENE	27	U	27	MDL	330	LOD	ug/Kg	UJ	Lcs
INDENO(1,2,3-CD)PYRENE	58		3.3	MDL	6.8	LOD	ug/Kg	J-	Ms
PHENANTHRENE	210		3.3	MDL	6.8	LOD	ug/Kg	J-	Ms
PYRENE	230		3.3	MDL	6.8	LOD	ug/Kg	J-	Ms

Sample ID: **LL1SB-645M-0103-SO** ***Collected:*** **7/5/2011 11:01:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	27	U Q	27	MDL	50	LOD	ug/Kg	UJ	Lcs
1,2-DICHLOROBENZENE	27	U Q	9.8	MDL	50	LOD	ug/Kg	UJ	Lcs
1,3-DICHLOROBENZENE	27	U Q	11	MDL	50	LOD	ug/Kg	UJ	Lcs
2,4,5-TRICHLOROPHENOL	27	U Q	25	MDL	150	LOD	ug/Kg	UJ	Lcs
2,4,6-TRICHLOROPHENOL	80	U Q	80	MDL	150	LOD	ug/Kg	UJ	Lcs
ANTHRACENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	R	Ms
BENZO(A)ANTHRACENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	R	Ms
BENZO(A)PYRENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	R	Ms
BENZO(B)FLUORANTHENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	R	Ms
BENZO(G,H,I)PERYLENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	R	Ms, Ms
BENZO(K)FLUORANTHENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	R	Ms, Ms
CHRYSENE	3.3	U	1.1	MDL	6.7	LOD	ug/Kg	R	Ms
DIETHYL PHTHALATE	30	J	16	MDL	50	LOD	ug/Kg	J	RI
DI-N-BUTYL PHTHALATE	24	J	15	MDL	50	LOD	ug/Kg	J	RI
FLUORANTHENE	10		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms
FLUORENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	UJ	Ms
HEXACHLOROBUTADIENE	27	U Q	27	MDL	50	LOD	ug/Kg	UJ	Lcs
HEXACHLOROCYCLOPENTADIENE	27	U	27	MDL	330	LOD	ug/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8270C** ***Matrix:*** **SO**

Sample ID: **LL1SB-645M-0103-SO** ***Collected:*** **7/5/2011 11:01:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	3.3	U	3.3	MDL	6.7	LOD	ug/Kg	UJ	Ms
PHENANTHRENE	6.7		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms
PYRENE	9.1		3.3	MDL	6.7	LOD	ug/Kg	J-	Ms

Sample ID: **LL2SB-512M-0101-SO** ***Collected:*** **7/1/2011 3:50:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	32		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(A)ANTHRACENE	130		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(A)PYRENE	160		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(B)FLUORANTHENE	190	M	3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(G,H,I)PERYLENE	84		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms, Ms
BENZO(K)FLUORANTHENE	76	M	3.4	MDL	6.8	LOD	ug/Kg	J-	Ms, Ms
CHRYSENE	120		1.1	MDL	6.8	LOD	ug/Kg	J-	Ms
FLUORANTHENE	220		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
FLUORENE	13		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
INDENO(1,2,3-CD)PYRENE	80		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
PHENANTHRENE	100		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
PYRENE	200		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms

Sample ID: **LL2SB-512M-0102-SO** ***Collected:*** **7/1/2011 3:50:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	R	Surr
ACENAPHTHYLENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	R	Surr
ANTHRACENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	R	Ms, Surr
BENZO(A)ANTHRACENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	R	Ms, Surr
BENZO(A)PYRENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	R	Ms, Surr
BENZO(B)FLUORANTHENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	R	Ms, Surr
BENZO(G,H,I)PERYLENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	R	Ms, Ms, Surr
BENZO(K)FLUORANTHENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	R	Ms, Ms, Surr
CHRYSENE	3.4	U	1.1	MDL	6.8	LOD	ug/Kg	R	Ms, Surr
DIBENZO(A,H)ANTHRACENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	R	Surr
FLUORANTHENE	11		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms, Surr
FLUORENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	R	Ms, Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8270C** ***Matrix:*** **SO**

Sample ID: **LL2SB-512M-0102-SO** ***Collected:*** **7/1/2011 3:50:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	R	Ms, Surr
NAPHTHALENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	R	Surr
PHENANTHRENE	11		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms, Surr
PYRENE	6.9		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms, Surr

Sample ID: **LL2SB-512M-0103-SO** ***Collected:*** **7/1/2011 3:50:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	R	Ms
BENZO(A)ANTHRACENE	7.9		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(A)PYRENE	7.1		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(B)FLUORANTHENE	10		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(G,H,I)PERYLENE	9.4	M	3.4	MDL	6.8	LOD	ug/Kg	J-	Ms, Ms
BENZO(K)FLUORANTHENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	R	Ms, Ms
CHRYSENE	7.7		1.1	MDL	6.8	LOD	ug/Kg	J-	Ms
FLUORANTHENE	14		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
FLUORENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	UJ	Ms
INDENO(1,2,3-CD)PYRENE	3.4	U	3.4	MDL	6.8	LOD	ug/Kg	UJ	Ms
PHENANTHRENE	14		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
PYRENE	11		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms

Sample ID: **LL2SS-516M-0001-SO** ***Collected:*** **7/3/2011 9:45:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **4**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3-DICHLOROBENZENE	110	U J	45	MDL	200	LOD	ug/Kg	UJ	Ms, Ms
2,4,6-TRICHLOROPHENOL	330	U J	330	MDL	610	LOD	ug/Kg	R	Ms, Ms
2,4-DINITROPHENOL	330	U J	330	MDL	1300	LOD	ug/Kg	R	Ms
4,6-DINITRO-2-METHYLPHENOL	330	U J	330	MDL	610	LOD	ug/Kg	R	Ms
BENZO(A)PYRENE	1600	J	13	MDL	27	LOD	ug/Kg	J	Ms, Ms
CARBAZOLE	140	J	110	MDL	200	LOD	ug/Kg	J	RI
DIBENZOFURAN	100	J	13	MDL	200	LOD	ug/Kg	J	RI
FLUORANTHENE	2900	J	13	MDL	27	LOD	ug/Kg	J+	Ms
HEXACHLOROCYCLOPENTADIENE	110	U	110	MDL	1300	LOD	ug/Kg	R	Ms
HEXACHLOROETHANE	110	U J	37	MDL	200	LOD	ug/Kg	UJ	Ms
ISOPHORONE	75	J	53	MDL	200	LOD	ug/Kg	J	RI, Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8270C** ***Matrix:*** **SO**

Sample ID: **LL2SS-516M-0001-SO** ***Collected:*** **7/3/2011 9:45:00 AM** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **4**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PENTACHLOROPHENOL	330	U J	330	MDL	610	LOD	ug/Kg	R	Ms
PYRENE	2400	J	13	MDL	27	LOD	ug/Kg	J+	Ms

Sample ID: **LL2SS-517M-0001-SO** ***Collected:*** **7/3/2011 9:45:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **4**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	110	U Q	110	MDL	200	LOD	ug/Kg	UJ	Lcs
1,2-DICHLOROBENZENE	110	U Q	40	MDL	200	LOD	ug/Kg	UJ	Lcs
1,3-DICHLOROBENZENE	110	U Q	45	MDL	200	LOD	ug/Kg	UJ	Lcs
2,4,5-TRICHLOROPHENOL	110	U Q	100	MDL	610	LOD	ug/Kg	UJ	Lcs
2,4,6-TRICHLOROPHENOL	330	U Q	330	MDL	610	LOD	ug/Kg	UJ	Lcs
2-METHYLNAPHTHALENE	74		13	MDL	27	LOD	ug/Kg	U	Fb
ACENAPHTHENE	150		13	MDL	27	LOD	ug/Kg	U	Fb
ACENAPHTHYLENE	320		13	MDL	27	LOD	ug/Kg	U	Fb
ANTHRACENE	570		13	MDL	27	LOD	ug/Kg	UJ	Ms, Fb
BENZO(A)ANTHRACENE	1600		13	MDL	27	LOD	ug/Kg	UJ	Ms, Fb
BENZO(A)PYRENE	1700		13	MDL	27	LOD	ug/Kg	UJ	Ms, Fb
BENZO(B)FLUORANTHENE	2000	M	13	MDL	27	LOD	ug/Kg	UJ	Ms, Fb
BENZO(G,H,I)PERYLENE	1000		13	MDL	27	LOD	ug/Kg	UJ	Ms, Ms, Fb
BENZO(K)FLUORANTHENE	950	M	13	MDL	27	LOD	ug/Kg	UJ	Ms, Ms, Fb
CARBAZOLE	170	J	110	MDL	200	LOD	ug/Kg	U	Fb
CHRYSENE	1500		4.5	MDL	27	LOD	ug/Kg	UJ	Ms, Fb
DIBENZOFURAN	160	J	13	MDL	200	LOD	ug/Kg	U	Fb
FLUORANTHENE	3600		13	MDL	27	LOD	ug/Kg	UJ	Ms, Fb
FLUORENE	300		13	MDL	27	LOD	ug/Kg	UJ	Ms, Fb
HEXACHLOROBUTADIENE	110	U Q	110	MDL	200	LOD	ug/Kg	UJ	Lcs
HEXACHLOROCYCLOPENTADIENE	110	U	110	MDL	1300	LOD	ug/Kg	UJ	Lcs
INDENO(1,2,3-CD)PYRENE	1000		13	MDL	27	LOD	ug/Kg	UJ	Ms, Fb
ISOPHORONE	53	J	53	MDL	200	LOD	ug/Kg	U	Fb
NAPHTHALENE	78		13	MDL	27	LOD	ug/Kg	U	Fb
PHENANTHRENE	2100		13	MDL	27	LOD	ug/Kg	UJ	Ms, Fb
PYRENE	2700		13	MDL	27	LOD	ug/Kg	UJ	Ms, Fb

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8270C** ***Matrix:*** **SO**

Sample ID: **LL2SS-519M-0001-SO** ***Collected:*** **7/2/2011 4:15:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	590		3.4	MDL	6.8	LOD	ug/Kg	J	Ms, Ms
FLUORANTHENE	1100		3.4	MDL	6.8	LOD	ug/Kg	J+	Ms
PYRENE	850		3.4	MDL	6.8	LOD	ug/Kg	J+	Ms

Sample ID: **LL3SB-422M-0001-SO** ***Collected:*** **7/2/2011 3:00:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	65		3.4	MDL	6.8	LOD	ug/Kg	J	Ms, Ms
FLUORANTHENE	120		3.4	MDL	6.8	LOD	ug/Kg	J+	Ms
PYRENE	96		3.4	MDL	6.8	LOD	ug/Kg	J+	Ms

Sample ID: **LL3SD-416M-0001-SD** ***Collected:*** **7/2/2011 8:50:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **20**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	550	U Q	550	MDL	1000	LOD	ug/Kg	UJ	Lcs
1,2-DICHLOROBENZENE	550	U Q	200	MDL	1000	LOD	ug/Kg	UJ	Lcs
1,3-DICHLOROBENZENE	550	U Q	220	MDL	1000	LOD	ug/Kg	UJ	Lcs
2,4,5-TRICHLOROPHENOL	550	U Q	510	MDL	3100	LOD	ug/Kg	UJ	Lcs
2,4,6-TRICHLOROPHENOL	1600	U Q	1600	MDL	3100	LOD	ug/Kg	UJ	Lcs
ANTHRACENE	3100	D	67	MDL	140	LOD	ug/Kg	J-	Ms
BENZO(A)ANTHRACENE	8600	D	67	MDL	140	LOD	ug/Kg	J-	Ms
BENZO(A)PYRENE	6800	D	67	MDL	140	LOD	ug/Kg	J-	Ms
BENZO(B)FLUORANTHENE	9100	D M	67	MDL	140	LOD	ug/Kg	J-	Ms
BENZO(G,H,I)PERYLENE	4200	D	67	MDL	140	LOD	ug/Kg	J-	Ms, Ms
BENZO(K)FLUORANTHENE	5000	D M	67	MDL	140	LOD	ug/Kg	J-	Ms, Ms
CHRYSENE	8200	D	22	MDL	140	LOD	ug/Kg	J-	Ms
DIBENZOFURAN	550	J D	67	MDL	1000	LOD	ug/Kg	J	RI
FLUORANTHENE	19000	D	67	MDL	140	LOD	ug/Kg	J-	Ms
FLUORENE	1000	D	67	MDL	140	LOD	ug/Kg	J-	Ms
HEXACHLOROBUTADIENE	550	U Q	550	MDL	1000	LOD	ug/Kg	UJ	Lcs
HEXACHLOROCYCLOPENTADIENE	550	U	550	MDL	6700	LOD	ug/Kg	UJ	Lcs
INDENO(1,2,3-CD)PYRENE	4100	D	67	MDL	140	LOD	ug/Kg	J-	Ms
PHENANTHRENE	9200	D	67	MDL	140	LOD	ug/Kg	J-	Ms
PYRENE	13000	D	67	MDL	140	LOD	ug/Kg	J-	Ms

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8270C** ***Matrix:*** **SO**

Sample ID: **LL3SD-417M-0001-SD** ***Collected:*** **7/2/2011 8:50:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **6.667**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,4-TRICHLOROBENZENE	180	U Q	180	MDL	340	LOD	ug/Kg	UJ	Lcs
1,2-DICHLOROBENZENE	180	U Q	66	MDL	340	LOD	ug/Kg	UJ	Lcs
1,3-DICHLOROBENZENE	180	U Q	75	MDL	340	LOD	ug/Kg	UJ	Lcs
2,4,5-TRICHLOROPHENOL	180	U Q	170	MDL	1000	LOD	ug/Kg	UJ	Lcs
2,4,6-TRICHLOROPHENOL	540	U Q	540	MDL	1000	LOD	ug/Kg	UJ	Lcs
ANTHRACENE	1000	D	22	MDL	45	LOD	ug/Kg	J-	Ms
BENZO(A)ANTHRACENE	2900	D	22	MDL	45	LOD	ug/Kg	J-	Ms
BENZO(A)PYRENE	2500	D	22	MDL	45	LOD	ug/Kg	J-	Ms
BENZO(B)FLUORANTHENE	3100	D M	22	MDL	45	LOD	ug/Kg	J-	Ms
BENZO(G,H,I)PERYLENE	1500	D	22	MDL	45	LOD	ug/Kg	J-	Ms, Ms
BENZO(K)FLUORANTHENE	1900	D M	22	MDL	45	LOD	ug/Kg	J-	Ms, Ms
CHRYSENE	2500	D	7.5	MDL	45	LOD	ug/Kg	J-	Ms
DIBENZOFURAN	200	J D	22	MDL	340	LOD	ug/Kg	J	RI
FLUORANTHENE	5500	D	22	MDL	45	LOD	ug/Kg	J-	Ms
FLUORENE	320	D M	22	MDL	45	LOD	ug/Kg	J-	Ms
HEXACHLOROBUTADIENE	180	U Q	180	MDL	340	LOD	ug/Kg	UJ	Lcs
HEXACHLOROCYCLOPENTADIENE	180	U	180	MDL	2200	LOD	ug/Kg	UJ	Lcs
INDENO(1,2,3-CD)PYRENE	1500	D	22	MDL	45	LOD	ug/Kg	J-	Ms
PHENANTHRENE	2800	D	22	MDL	45	LOD	ug/Kg	J-	Ms
PYRENE	4000	D	22	MDL	45	LOD	ug/Kg	J-	Ms

Sample ID: **LL3SS-419M-0001-SO** ***Collected:*** **7/2/2011 12:30:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **2**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
ANTHRACENE	300	J	6.7	MDL	13	LOD	ug/Kg	J-	Ms
BENZO(A)ANTHRACENE	480	J	6.7	MDL	13	LOD	ug/Kg	J-	Ms
BENZO(A)PYRENE	400	J	6.7	MDL	13	LOD	ug/Kg	J-	Ms
BENZO(B)FLUORANTHENE	440	M J	6.7	MDL	13	LOD	ug/Kg	J-	Ms
BENZO(G,H,I)PERYLENE	250	J	6.7	MDL	13	LOD	ug/Kg	J-	Ms, Ms
BENZO(K)FLUORANTHENE	290	M J	6.7	MDL	13	LOD	ug/Kg	J-	Ms, Ms
CHRYSENE	470	J	2.2	MDL	13	LOD	ug/Kg	J-	Ms
FLUORANTHENE	1200	J	6.7	MDL	13	LOD	ug/Kg	J-	Ms
FLUORENE	120	J	6.7	MDL	13	LOD	ug/Kg	J-	Ms
INDENO(1,2,3-CD)PYRENE	220	J	6.7	MDL	13	LOD	ug/Kg	J-	Ms

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8270C** ***Matrix:*** **SO**

Sample ID: **LL3SS-419M-0001-SO** ***Collected:*** **7/2/2011 12:30:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENANTHRENE	990	J	6.7	MDL	13	LOD	ug/Kg	J-	Ms
PYRENE	930	J	6.7	MDL	13	LOD	ug/Kg	J-	Ms

Sample ID: **LL3SS-420M-0001-SO** ***Collected:*** **7/2/2011 12:30:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	24		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(A)ANTHRACENE	78		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(A)PYRENE	70		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(B)FLUORANTHENE	99	M	3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(G,H,I)PERYLENE	50		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms, Ms
BENZO(K)FLUORANTHENE	51	M	3.4	MDL	6.8	LOD	ug/Kg	J-	Ms, Ms
CHRYSENE	79		1.1	MDL	6.8	LOD	ug/Kg	J-	Ms
FLUORANTHENE	160		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
FLUORENE	12		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
INDENO(1,2,3-CD)PYRENE	46		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
PHENANTHRENE	100		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
PYRENE	130		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms

Sample ID: **LL3SS-421M-0001-SO** ***Collected:*** **7/2/2011 3:00:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	54		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(A)ANTHRACENE	250		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(A)PYRENE	260		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(B)FLUORANTHENE	400	M	3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
BENZO(G,H,I)PERYLENE	190		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms, Ms
BENZO(K)FLUORANTHENE	240	M	3.4	MDL	6.8	LOD	ug/Kg	J-	Ms, Ms
CHRYSENE	280		1.1	MDL	6.8	LOD	ug/Kg	J-	Ms
FLUORANTHENE	390		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
FLUORENE	15		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
INDENO(1,2,3-CD)PYRENE	200		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
PHENANTHRENE	140		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms
PYRENE	350		3.4	MDL	6.8	LOD	ug/Kg	J-	Ms

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **SVOA**

Method: **8330** ***Matrix:*** **SO**

Sample ID: **L12SS-300M-0001-SO** ***Collected:*** **7/3/2011 11:15:00** ***Analysis Type:*** **DL/WET** ***Dilution:*** **0.97**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYL-2,4,6-TRINITROPHENYLNITRAMINE	0.17	J PG	0.048	MDL	0.24	PQL	mg/kg	J	RI

Sample ID: **L12SS-301M-0001-SO** ***Collected:*** **7/3/2011 11:15:00** ***Analysis Type:*** **RES/WET-** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NITROBENZENE	0.20	J PG	0.050	MDL	0.25	PQL	mg/kg	J	RI

Sample ID: **LL1SB-640M-0101-SO** ***Collected:*** **7/5/2011 4:15:00 PM** ***Analysis Type:*** **DL/WET-** ***Dilution:*** **0.99**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	0.026	J	0.020	MDL	0.25	PQL	mg/kg	J	RI
2,4,6-TRINITROTOLUENE	0.24	J	0.020	MDL	0.25	PQL	mg/kg	J	RI
4-AMINO-2,6-DINITROTOLUENE	0.094	J	0.020	MDL	0.25	PQL	mg/kg	J	RI

Sample ID: **LL1SB-640M-0102-SO** ***Collected:*** **7/5/2011 4:14:00 PM** ***Analysis Type:*** **DL/WET-** ***Dilution:*** **0.99**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	0.037	J	0.020	MDL	0.25	PQL	mg/kg	J	RI

Sample ID: **LL1SB-640M-0103-SO** ***Collected:*** **7/5/2011 4:12:00 PM** ***Analysis Type:*** **RES/WET-** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	0.053	J	0.020	MDL	0.25	PQL	mg/kg	J	RI
HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	0.18	J	0.040	MDL	0.25	PQL	mg/kg	J	RI
OCTAHYDRO-TETRANITRO-1,3,5,7-TETRAZOCINE	0.098	J	0.030	MDL	0.25	PQL	mg/kg	J	RI

Sample ID: **LL1SB-644M-0101-SO** ***Collected:*** **7/5/2011 11:00:00** ***Analysis Type:*** **DL/WET-** ***Dilution:*** **0.97**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	0.088	J	0.019	MDL	0.24	PQL	mg/kg	J	RI
4-AMINO-2,6-DINITROTOLUENE	0.22	J	0.019	MDL	0.24	PQL	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: SVOA

Method: 8330 **Matrix:** SO

Sample ID: LL1SB-644M-0102-SO **Collected:** 7/5/2011 10:57:00 **Analysis Type:** DL/WET- **Dilution:** 0.99

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	0.037	J	0.020	MDL	0.25	PQL	mg/kg	J	RI
4-AMINO-2,6-DINITROTOLUENE	0.17	J	0.020	MDL	0.25	PQL	mg/kg	J	RI
OCTAHYDRO-TETRANITRO-1,3,5,7-TETRAZOCINE	0.12	J	0.030	MDL	0.25	PQL	mg/kg	J	RI

Sample ID: LL1SB-644M-0103-SO **Collected:** 7/5/2011 11:07:00 **Analysis Type:** RES/WET- **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	0.076	J	0.020	MDL	0.25	PQL	mg/kg	J	RI
OCTAHYDRO-TETRANITRO-1,3,5,7-TETRAZOCINE	0.11	J	0.030	MDL	0.25	PQL	mg/kg	J	RI

Sample ID: LL1SB-645M-0101-SO **Collected:** 7/5/2011 11:06:00 **Analysis Type:** DL/WET- **Dilution:** 0.96

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	0.091	J	0.019	MDL	0.24	PQL	mg/kg	J	RI
2,4-DINITROTOLUENE	0.028	J	0.019	MDL	0.24	PQL	mg/kg	J	RI
2-AMINO-4,6-DINITROTOLUENE	0.15	J	0.096	MDL	0.24	PQL	mg/kg	J	RI

Sample ID: LL1SB-645M-0102-SO **Collected:** 7/5/2011 11:07:00 **Analysis Type:** RES/WET **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,6-TRINITROTOLUENE	0.19	J	0.020	MDL	0.25	PQL	mg/kg	J	RI
4-AMINO-2,6-DINITROTOLUENE	0.13	J	0.020	MDL	0.25	PQL	mg/kg	J	RI
OCTAHYDRO-TETRANITRO-1,3,5,7-TETRAZOCINE	0.15	J	0.030	MDL	0.25	PQL	mg/kg	J	RI

Sample ID: LL1SB-645M-0103-SO **Collected:** 7/5/2011 11:01:00 **Analysis Type:** DL/WET- **Dilution:** 1.01

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	0.070	J	0.020	MDL	0.25	PQL	mg/kg	J	RI
2-AMINO-4,6-DINITROTOLUENE	0.16	J	0.10	MDL	0.25	PQL	mg/kg	J	RI

Sample ID: LL2SS-517M-0001-SO **Collected:** 7/3/2011 9:45:00 AM **Analysis Type:** RES/WET **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,6-TRINITROTOLUENE	0.048	J PG	0.020	MDL	0.25	PQL	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: SVOA

Method: 8330 **Matrix: SO**

Sample ID: LL3SD-416M-0001-SD **Collected:** 7/2/2011 8:50:00 AM **Analysis Type:** DL/WET- **Dilution:** 0.99

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	0.031	J PG	0.020	MDL	0.25	PQL	mg/kg	J	RI
METHYL-2,4,6-TRINITROPHENYLNITRAMINE	0.12	J PG	0.050	MDL	0.25	PQL	mg/kg	J	RI
NITROBENZENE	0.11	J PG	0.050	MDL	0.25	PQL	mg/kg	J	RI

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: L12SS-300V-0001-SO **Collected:** 7/12/2011 3:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1-TRICHLOROETHANE	9.1	U	19	MDL	230	LOD	ug/Kg	UJ	Surr
1,1,2,2-TETRACHLOROETHANE	23	U	8.1	MDL	230	LOD	ug/Kg	UJ	Surr
1,1,2-TRICHLOROETHANE	23	U	11	MDL	230	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHANE	23	U	15	MDL	230	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHENE	23	U	16	MDL	230	LOD	ug/Kg	UJ	Surr
1,2-DIBROMOETHANE	23	U	9.1	MDL	230	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHANE	23	U	9.1	MDL	230	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHENE (TOTAL)	7.5	U	7.5	MDL	460	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROPROPANE	9.1	U	7.5	MDL	230	LOD	ug/Kg	UJ	Surr
2-BUTANONE	91	U	39	MDL	910	LOD	ug/Kg	UJ	Surr
2-HEXANONE	46	U	18	MDL	910	LOD	ug/Kg	UJ	Surr
4-METHYL-2-PENTANONE	91	U	44	MDL	910	LOD	ug/Kg	UJ	Surr
ACETONE	180	U	150	MDL	910	LOD	ug/Kg	UJ	Surr
BENZENE	23	U	11	MDL	230	LOD	ug/Kg	UJ	Surr
BROMOCHLOROMETHANE	23	U	12	MDL	230	LOD	ug/Kg	UJ	Surr
BROMODICHLOROMETHANE	23	U	9.0	MDL	230	LOD	ug/Kg	UJ	Ms, Surr
BROMOFORM	23	U	17	MDL	230	LOD	ug/Kg	UJ	Surr
BROMOMETHANE	46	U	26	MDL	230	LOD	ug/Kg	UJ	Surr
CARBON DISULFIDE	41	J	11	MDL	230	LOD	ug/Kg	J	RI, Surr
CARBON TETRACHLORIDE	9.1	U	5.8	MDL	230	LOD	ug/Kg	UJ	Surr
CHLOROBENZENE	9.1	U	5.8	MDL	230	LOD	ug/Kg	UJ	Surr
CHLOROETHANE	91	U	56	MDL	230	LOD	ug/Kg	UJ	Surr
CHLOROFORM	23	U	8.0	MDL	230	LOD	ug/Kg	UJ	Surr
CHLOROMETHANE	23	U	13	MDL	230	LOD	ug/Kg	UJ	Surr

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **VOA**

Method: **8260B** ***Matrix:*** **SO**

Sample ID: **L12SS-300V-0001-SO** ***Collected:*** **7/12/2011 3:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
CIS-1,2-DICHLOROETHENE	9.1	U	6.3	MDL	230	LOD	ug/Kg	UJ	Surr
CIS-1,3-DICHLOROPROPENE	9.1	U	7.2	MDL	230	LOD	ug/Kg	UJ	Ms, Surr
DIBROMOCHLOROMETHANE	23	U	11	MDL	230	LOD	ug/Kg	UJ	Surr
ETHYL BENZENE	9.1	U	4.9	MDL	230	LOD	ug/Kg	UJ	Surr
METHYLENE CHLORIDE	91	U	70	MDL	230	LOD	ug/Kg	UJ	Surr
STYRENE	9.1	U	5.1	MDL	230	LOD	ug/Kg	UJ	Ms, Surr
TETRACHLOROETHENE	23	U	11	MDL	230	LOD	ug/Kg	UJ	Surr
TOLUENE	16	J	15	MDL	230	LOD	ug/Kg	J	RI, Surr
TOTAL XYLENES	24	J	7.4	MDL	460	LOD	ug/Kg	J	RI, Surr
TRANS-1,2-DICHLOROETHENE	23	U	8.4	MDL	230	LOD	ug/Kg	UJ	Surr
TRANS-1,3-DICHLOROPROPENE	23	U	18	MDL	230	LOD	ug/Kg	UJ	Ms, Surr
TRICHLOROETHENE	23	U	8.8	MDL	230	LOD	ug/Kg	UJ	Surr
VINYL CHLORIDE	23	U	16	MDL	230	LOD	ug/Kg	UJ	Surr

Sample ID: **L12SS-301V-0001-SO** ***Collected:*** **7/12/2011 3:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,1,1-TRICHLOROETHANE	7.0	U	15	MDL	180	LOD	ug/Kg	UJ	Surr
1,1,2,2-TETRACHLOROETHANE	18	U	6.2	MDL	180	LOD	ug/Kg	UJ	Surr
1,1,2-TRICHLOROETHANE	18	U	8.4	MDL	180	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHANE	18	U	12	MDL	180	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHENE	18	U	13	MDL	180	LOD	ug/Kg	UJ	Surr
1,2-DIBROMOETHANE	18	U	7.0	MDL	180	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHANE	18	U	7.0	MDL	180	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHENE (TOTAL)	5.8	U	5.8	MDL	350	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROPROPANE	7.0	U	5.8	MDL	180	LOD	ug/Kg	UJ	Surr
2-BUTANONE	70	U	30	MDL	700	LOD	ug/Kg	UJ	Surr
2-HEXANONE	35	U	14	MDL	700	LOD	ug/Kg	UJ	Surr
4-METHYL-2-PENTANONE	70	U	34	MDL	700	LOD	ug/Kg	UJ	Surr
ACETONE	140	U	120	MDL	700	LOD	ug/Kg	UJ	Surr
BENZENE	18	U	8.4	MDL	180	LOD	ug/Kg	UJ	Surr
BROMOCHLOROMETHANE	18	U	9.1	MDL	180	LOD	ug/Kg	UJ	Surr
BROMODICHLOROMETHANE	18	U	7.0	MDL	180	LOD	ug/Kg	UJ	Ms, Surr
BROMOFORM	18	U	13	MDL	180	LOD	ug/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **VOA**

Method: **8260B** ***Matrix:*** **SO**

Sample ID: **L12SS-301V-0001-SO** ***Collected:*** **7/12/2011 3:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BROMOMETHANE	35	U	20	MDL	180	LOD	ug/Kg	UJ	Surr
CARBON DISULFIDE	34	J	8.4	MDL	180	LOD	ug/Kg	J	RI, Surr
CARBON TETRACHLORIDE	7.0	U	4.5	MDL	180	LOD	ug/Kg	UJ	Surr
CHLOROBENZENE	7.0	U	4.5	MDL	180	LOD	ug/Kg	UJ	Surr
CHLOROETHANE	70	U	43	MDL	180	LOD	ug/Kg	UJ	Surr
CHLOROFORM	18	U	6.2	MDL	180	LOD	ug/Kg	UJ	Surr
CHLOROMETHANE	18	U	9.8	MDL	180	LOD	ug/Kg	UJ	Surr
CIS-1,2-DICHLOROETHENE	7.0	U	4.8	MDL	180	LOD	ug/Kg	UJ	Surr
CIS-1,3-DICHLOROPROPENE	7.0	U	5.5	MDL	180	LOD	ug/Kg	UJ	Ms, Surr
DIBROMOCHLOROMETHANE	18	U	8.4	MDL	180	LOD	ug/Kg	UJ	Surr
ETHYL BENZENE	12	J	3.8	MDL	180	LOD	ug/Kg	J	RI, Surr
METHYLENE CHLORIDE	73	J	54	MDL	180	LOD	ug/Kg	UJ	Mb, Surr
STYRENE	7.0	U	3.9	MDL	180	LOD	ug/Kg	UJ	Ms, Surr
TETRACHLOROETHENE	18	U	8.4	MDL	180	LOD	ug/Kg	UJ	Surr
TOLUENE	50	J	12	MDL	180	LOD	ug/Kg	J	RI, Surr
TOTAL XYLENES	64	J	5.7	MDL	350	LOD	ug/Kg	J	RI, Surr
TRANS-1,2-DICHLOROETHENE	18	U	6.5	MDL	180	LOD	ug/Kg	UJ	Surr
TRANS-1,3-DICHLOROPROPENE	18	U	14	MDL	180	LOD	ug/Kg	UJ	Ms, Surr
TRICHLOROETHENE	18	U	6.8	MDL	180	LOD	ug/Kg	UJ	Surr
VINYL CHLORIDE	18	U	13	MDL	180	LOD	ug/Kg	UJ	Surr

Sample ID: **LL1SB-644V-0101-SO** ***Collected:*** **7/12/2011 2:55:00** ***Analysis Type:*** **RES/WET** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1-TRICHLOROETHANE	6.4	U	13	MDL	160	LOD	ug/Kg	UJ	Surr
1,1,2,2-TETRACHLOROETHANE	16	U	5.7	MDL	160	LOD	ug/Kg	UJ	Surr
1,1,2-TRICHLOROETHANE	16	U	7.7	MDL	160	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHANE	16	U	11	MDL	160	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHENE	16	U	12	MDL	160	LOD	ug/Kg	UJ	Surr
1,2-DIBROMOETHANE	16	U	6.4	MDL	160	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHANE	16	U	6.4	MDL	160	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHENE (TOTAL)	5.3	U	5.3	MDL	320	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROPROPANE	6.4	U	5.3	MDL	160	LOD	ug/Kg	UJ	Surr
2-BUTANONE	64	U	28	MDL	640	LOD	ug/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **VOA**

Method: **8260B** ***Matrix:*** **SO**

Sample ID: **LL1SB-644V-0101-SO** ***Collected:*** **7/12/2011 2:55:00** ***Analysis Type:*** **RES/WET** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
2-HEXANONE	32	U	13	MDL	640	LOD	ug/Kg	UJ	Surr
4-METHYL-2-PENTANONE	64	U	31	MDL	640	LOD	ug/Kg	UJ	Surr
ACETONE	130	U	110	MDL	640	LOD	ug/Kg	UJ	Surr
BENZENE	16	U	7.7	MDL	160	LOD	ug/Kg	UJ	Surr
BROMOCHLOROMETHANE	16	U	8.3	MDL	160	LOD	ug/Kg	UJ	Surr
BROMODICHLOROMETHANE	16	U	6.4	MDL	160	LOD	ug/Kg	UJ	Surr
BROMOFORM	16	U	12	MDL	160	LOD	ug/Kg	UJ	Surr
BROMOMETHANE	32	U	19	MDL	160	LOD	ug/Kg	UJ	Surr
CARBON DISULFIDE	16	U	7.7	MDL	160	LOD	ug/Kg	UJ	Surr
CARBON TETRACHLORIDE	6.4	U	4.1	MDL	160	LOD	ug/Kg	UJ	Surr
CHLOROBENZENE	6.4	U	4.1	MDL	160	LOD	ug/Kg	UJ	Surr
CHLOROETHANE	64	U	39	MDL	160	LOD	ug/Kg	UJ	Surr
CHLOROFORM	16	U	5.6	MDL	160	LOD	ug/Kg	UJ	Surr
CHLOROMETHANE	16	U	9.0	MDL	160	LOD	ug/Kg	UJ	Surr
CIS-1,2-DICHLOROETHENE	6.4	U	4.4	MDL	160	LOD	ug/Kg	UJ	Surr
CIS-1,3-DICHLOROPROPENE	6.4	U	5.1	MDL	160	LOD	ug/Kg	UJ	Surr
DIBROMOCHLOROMETHANE	16	U	7.7	MDL	160	LOD	ug/Kg	UJ	Surr
ETHYL BENZENE	6.4	U	3.5	MDL	160	LOD	ug/Kg	UJ	Surr
METHYLENE CHLORIDE	68	J	49	MDL	160	LOD	ug/Kg	UJ	Mb, Surr
STYRENE	6.4	U	3.6	MDL	160	LOD	ug/Kg	UJ	Surr
TETRACHLOROETHENE	16	U	7.7	MDL	160	LOD	ug/Kg	UJ	Surr
TOLUENE	16	U	11	MDL	160	LOD	ug/Kg	UJ	Surr
TOTAL XYLENES	19	U	5.2	MDL	320	LOD	ug/Kg	UJ	Surr
TRANS-1,2-DICHLOROETHENE	16	U	5.9	MDL	160	LOD	ug/Kg	UJ	Surr
TRANS-1,3-DICHLOROPROPENE	16	U	13	MDL	160	LOD	ug/Kg	UJ	Surr
TRICHLOROETHENE	16	U	6.2	MDL	160	LOD	ug/Kg	UJ	Surr
VINYL CHLORIDE	16	U	12	MDL	160	LOD	ug/Kg	UJ	Surr

Sample ID: **LL1SB-644V-0102-SO** ***Collected:*** **7/12/2011 2:55:00** ***Analysis Type:*** **RES/WET** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,1,1-TRICHLOROETHANE	13	U	27	MDL	320	LOD	ug/Kg	UJ	Surr
1,1,2,2-TETRACHLOROETHANE	32	U	11	MDL	320	LOD	ug/Kg	UJ	Surr
1,1,2-TRICHLOROETHANE	32	U	15	MDL	320	LOD	ug/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **VOA**

Method: **8260B** ***Matrix:*** **SO**

Sample ID: **LL1SB-644V-0102-SO** ***Collected:*** **7/12/2011 2:55:00** ***Analysis Type:*** **RES/WET** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,1-DICHLOROETHANE	32	U	22	MDL	320	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHENE	32	U	23	MDL	320	LOD	ug/Kg	UJ	Surr
1,2-DIBROMOETHANE	32	U	13	MDL	320	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHANE	32	U	13	MDL	320	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHENE (TOTAL)	10	U	10	MDL	630	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROPROPANE	13	U	10	MDL	320	LOD	ug/Kg	UJ	Surr
2-BUTANONE	130	U	54	MDL	1300	LOD	ug/Kg	UJ	Surr
2-HEXANONE	63	U	25	MDL	1300	LOD	ug/Kg	UJ	Surr
4-METHYL-2-PENTANONE	130	U	61	MDL	1300	LOD	ug/Kg	UJ	Surr
ACETONE	250	U	220	MDL	1300	LOD	ug/Kg	UJ	Surr
BENZENE	32	U	15	MDL	320	LOD	ug/Kg	UJ	Surr
BROMOCHLOROMETHANE	32	U	16	MDL	320	LOD	ug/Kg	UJ	Surr
BROMODICHLOROMETHANE	32	U	13	MDL	320	LOD	ug/Kg	UJ	Surr
BROMOFORM	32	U	24	MDL	320	LOD	ug/Kg	UJ	Surr
BROMOMETHANE	63	U	37	MDL	320	LOD	ug/Kg	UJ	Surr
CARBON DISULFIDE	32	U	15	MDL	320	LOD	ug/Kg	UJ	Surr
CARBON TETRACHLORIDE	13	U	8.1	MDL	320	LOD	ug/Kg	UJ	Surr
CHLOROBENZENE	13	U	8.1	MDL	320	LOD	ug/Kg	UJ	Surr
CHLOROETHANE	130	U	77	MDL	320	LOD	ug/Kg	UJ	Surr
CHLOROFORM	32	U	11	MDL	320	LOD	ug/Kg	UJ	Surr
CHLOROMETHANE	32	U	18	MDL	320	LOD	ug/Kg	UJ	Surr
CIS-1,2-DICHLOROETHENE	13	U	8.7	MDL	320	LOD	ug/Kg	UJ	Surr
CIS-1,3-DICHLOROPROPENE	13	U	10	MDL	320	LOD	ug/Kg	UJ	Surr
DIBROMOCHLOROMETHANE	32	U	15	MDL	320	LOD	ug/Kg	UJ	Surr
ETHYL BENZENE	13	U	6.8	MDL	320	LOD	ug/Kg	UJ	Surr
METHYLENE CHLORIDE	160	J	97	MDL	320	LOD	ug/Kg	UJ	Mb, Surr
STYRENE	13	U	7.1	MDL	320	LOD	ug/Kg	UJ	Surr
TETRACHLOROETHENE	32	U	15	MDL	320	LOD	ug/Kg	UJ	Surr
TOLUENE	32	U	22	MDL	320	LOD	ug/Kg	UJ	Surr
TOTAL XYLENES	38	U	10	MDL	630	LOD	ug/Kg	UJ	Surr
TRANS-1,2-DICHLOROETHENE	32	U	12	MDL	320	LOD	ug/Kg	UJ	Surr
TRANS-1,3-DICHLOROPROPENE	32	U	25	MDL	320	LOD	ug/Kg	UJ	Surr
TRICHLOROETHENE	32	U	12	MDL	320	LOD	ug/Kg	UJ	Surr
VINYL CHLORIDE	32	U	23	MDL	320	LOD	ug/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **VOA**

Method: **8260B** ***Matrix:*** **SO**

Sample ID: **LL1SB-644V-0103-SO** ***Collected:*** **7/12/2011 2:55:00** ***Analysis Type:*** **RES/WET** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,1,1-TRICHLOROETHANE	15	U	32	MDL	380	LOD	ug/Kg	UJ	Surr
1,1,2,2-TETRACHLOROETHANE	38	U	14	MDL	380	LOD	ug/Kg	UJ	Surr
1,1,2-TRICHLOROETHANE	38	U	18	MDL	380	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHANE	38	U	26	MDL	380	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHENE	38	U	28	MDL	380	LOD	ug/Kg	UJ	Surr
1,2-DIBROMOETHANE	38	U	15	MDL	380	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHANE	38	U	15	MDL	380	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHENE (TOTAL)	13	U	13	MDL	770	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROPROPANE	15	U	13	MDL	380	LOD	ug/Kg	UJ	Surr
2-BUTANONE	150	U	66	MDL	1500	LOD	ug/Kg	UJ	Surr
2-HEXANONE	77	U	31	MDL	1500	LOD	ug/Kg	UJ	Surr
4-METHYL-2-PENTANONE	150	U	74	MDL	1500	LOD	ug/Kg	UJ	Surr
ACETONE	310	U	260	MDL	1500	LOD	ug/Kg	UJ	Surr
BENZENE	38	U	18	MDL	380	LOD	ug/Kg	UJ	Surr
BROMOCHLOROMETHANE	38	U	20	MDL	380	LOD	ug/Kg	UJ	Surr
BROMODICHLOROMETHANE	38	U	15	MDL	380	LOD	ug/Kg	UJ	Surr
BROMOFORM	38	U	29	MDL	380	LOD	ug/Kg	UJ	Surr
BROMOMETHANE	77	U	44	MDL	380	LOD	ug/Kg	UJ	Surr
CARBON DISULFIDE	38	U	18	MDL	380	LOD	ug/Kg	UJ	Surr
CARBON TETRACHLORIDE	15	U	9.8	MDL	380	LOD	ug/Kg	UJ	Surr
CHLOROBENZENE	15	U	9.8	MDL	380	LOD	ug/Kg	UJ	Surr
CHLOROETHANE	150	U	94	MDL	380	LOD	ug/Kg	UJ	Surr
CHLOROFORM	38	U	13	MDL	380	LOD	ug/Kg	UJ	Surr
CHLOROMETHANE	38	U	21	MDL	380	LOD	ug/Kg	UJ	Surr
CIS-1,2-DICHLOROETHENE	15	U	11	MDL	380	LOD	ug/Kg	UJ	Surr
CIS-1,3-DICHLOROPROPENE	15	U	12	MDL	380	LOD	ug/Kg	UJ	Surr
DIBROMOCHLOROMETHANE	38	U	18	MDL	380	LOD	ug/Kg	UJ	Surr
ETHYL BENZENE	15	U	8.3	MDL	380	LOD	ug/Kg	UJ	Surr
METHYLENE CHLORIDE	140	J	120	MDL	380	LOD	ug/Kg	UJ	Mb, Surr
STYRENE	15	U	8.6	MDL	380	LOD	ug/Kg	UJ	Surr
TETRACHLOROETHENE	38	U	18	MDL	380	LOD	ug/Kg	UJ	Surr
TOLUENE	38	U	26	MDL	380	LOD	ug/Kg	UJ	Surr
TOTAL XYLENES	46	U	12	MDL	770	LOD	ug/Kg	UJ	Surr
TRANS-1,2-DICHLOROETHENE	38	U	14	MDL	380	LOD	ug/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **VOA**

Method: **8260B** ***Matrix:*** **SO**

Sample ID: **LL1SB-644V-0103-SO** ***Collected:*** **7/12/2011 2:55:00** ***Analysis Type:*** **RES/WET** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TRANS-1,3-DICHLOROPROPENE	38	U	31	MDL	380	LOD	ug/Kg	UJ	Surr
TRICHLOROETHENE	38	U	15	MDL	380	LOD	ug/Kg	UJ	Surr
VINYL CHLORIDE	38	U	28	MDL	380	LOD	ug/Kg	UJ	Surr

Sample ID: **LL1SB-645V-0101-SO** ***Collected:*** **7/12/2011 2:55:00** ***Analysis Type:*** **RES/WET** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1-TRICHLOROETHANE	5.9	U	12	MDL	150	LOD	ug/Kg	UJ	Surr
1,1,2,2-TETRACHLOROETHANE	15	U	5.3	MDL	150	LOD	ug/Kg	UJ	Surr
1,1,2-TRICHLOROETHANE	15	U	7.1	MDL	150	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHANE	15	U	10	MDL	150	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHENE	15	U	11	MDL	150	LOD	ug/Kg	UJ	Surr
1,2-DIBROMOETHANE	15	U	5.9	MDL	150	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHANE	15	U	5.9	MDL	150	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHENE (TOTAL)	4.9	U	4.9	MDL	300	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROPROPANE	5.9	U	4.9	MDL	150	LOD	ug/Kg	UJ	Surr
2-BUTANONE	59	U	25	MDL	590	LOD	ug/Kg	UJ	Surr
2-HEXANONE	30	U	12	MDL	590	LOD	ug/Kg	UJ	Surr
4-METHYL-2-PENTANONE	59	U	28	MDL	590	LOD	ug/Kg	UJ	Surr
ACETONE	120	U	100	MDL	590	LOD	ug/Kg	UJ	Surr
BENZENE	15	U	7.1	MDL	150	LOD	ug/Kg	UJ	Surr
BROMOCHLOROMETHANE	15	U	7.7	MDL	150	LOD	ug/Kg	UJ	Surr
BROMODICHLOROMETHANE	15	U	5.9	MDL	150	LOD	ug/Kg	UJ	Surr
BROMOFORM	15	U	11	MDL	150	LOD	ug/Kg	UJ	Surr
BROMOMETHANE	30	U	17	MDL	150	LOD	ug/Kg	UJ	Surr
CARBON DISULFIDE	15	U	7.1	MDL	150	LOD	ug/Kg	UJ	Surr
CARBON TETRACHLORIDE	5.9	U	3.8	MDL	150	LOD	ug/Kg	UJ	Surr
CHLOROBENZENE	5.9	U	3.8	MDL	150	LOD	ug/Kg	UJ	Surr
CHLOROETHANE	59	U	36	MDL	150	LOD	ug/Kg	UJ	Surr
CHLOROFORM	15	U	5.2	MDL	150	LOD	ug/Kg	UJ	Surr
CHLOROMETHANE	15	U	8.3	MDL	150	LOD	ug/Kg	UJ	Surr
CIS-1,2-DICHLOROETHENE	5.9	U	4.1	MDL	150	LOD	ug/Kg	UJ	Surr
CIS-1,3-DICHLOROPROPENE	5.9	U	4.7	MDL	150	LOD	ug/Kg	UJ	Surr
DIBROMOCHLOROMETHANE	15	U	7.1	MDL	150	LOD	ug/Kg	UJ	Surr

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **VOA**

Method: **8260B** ***Matrix:*** **SO**

Sample ID: **LL1SB-645V-0101-SO** ***Collected:*** **7/12/2011 2:55:00** ***Analysis Type:*** **RES/WET** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
ETHYL BENZENE	5.9	U	3.2	MDL	150	LOD	ug/Kg	UJ	Surr
METHYLENE CHLORIDE	74	J	46	MDL	150	LOD	ug/Kg	UJ	Mb, Surr
STYRENE	5.9	U	3.3	MDL	150	LOD	ug/Kg	UJ	Surr
TETRACHLOROETHENE	15	U	7.1	MDL	150	LOD	ug/Kg	UJ	Surr
TOLUENE	15	U	10	MDL	150	LOD	ug/Kg	UJ	Surr
TOTAL XYLENES	18	U	4.8	MDL	300	LOD	ug/Kg	UJ	Surr
TRANS-1,2-DICHLOROETHENE	15	U	5.4	MDL	150	LOD	ug/Kg	UJ	Surr
TRANS-1,3-DICHLOROPROPENE	15	U	12	MDL	150	LOD	ug/Kg	UJ	Surr
TRICHLOROETHENE	15	U	5.7	MDL	150	LOD	ug/Kg	UJ	Surr
VINYL CHLORIDE	15	U	11	MDL	150	LOD	ug/Kg	UJ	Surr

Sample ID: **LL1SB-645V-0102-SO** ***Collected:*** **7/12/2011 2:55:00** ***Analysis Type:*** **RES/WET** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,1,1-TRICHLOROETHANE	11	U	23	MDL	270	LOD	ug/Kg	UJ	Surr
1,1,2,2-TETRACHLOROETHANE	27	U	9.6	MDL	270	LOD	ug/Kg	UJ	Surr
1,1,2-TRICHLOROETHANE	27	U	13	MDL	270	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHANE	27	U	18	MDL	270	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHENE	27	U	19	MDL	270	LOD	ug/Kg	UJ	Surr
1,2-DIBROMOETHANE	27	U	11	MDL	270	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHANE	27	U	11	MDL	270	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHENE (TOTAL)	8.8	U	8.8	MDL	540	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROPROPANE	11	U	8.8	MDL	270	LOD	ug/Kg	UJ	Surr
2-BUTANONE	110	U	46	MDL	1100	LOD	ug/Kg	UJ	Surr
2-HEXANONE	54	U	21	MDL	1100	LOD	ug/Kg	UJ	Surr
4-METHYL-2-PENTANONE	110	U	52	MDL	1100	LOD	ug/Kg	UJ	Surr
ACETONE	210	U	180	MDL	1100	LOD	ug/Kg	UJ	Surr
BENZENE	27	U	13	MDL	270	LOD	ug/Kg	UJ	Surr
BROMOCHLOROMETHANE	27	U	14	MDL	270	LOD	ug/Kg	UJ	Surr
BROMODICHLOROMETHANE	27	U	11	MDL	270	LOD	ug/Kg	UJ	Surr
BROMOFORM	27	U	20	MDL	270	LOD	ug/Kg	UJ	Surr
BROMOMETHANE	54	U	31	MDL	270	LOD	ug/Kg	UJ	Surr
CARBON DISULFIDE	27	U	13	MDL	270	LOD	ug/Kg	UJ	Surr
CARBON TETRACHLORIDE	11	U	6.9	MDL	270	LOD	ug/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **VOA**

Method: **8260B** ***Matrix:*** **SO**

Sample ID: **LL1SB-645V-0102-SO** ***Collected:*** **7/12/2011 2:55:00** ***Analysis Type:*** **RES/WET** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
CHLOROBENZENE	11	U	6.9	MDL	270	LOD	ug/Kg	UJ	Surr
CHLOROETHANE	110	U	65	MDL	270	LOD	ug/Kg	UJ	Surr
CHLOROFORM	27	U	9.4	MDL	270	LOD	ug/Kg	UJ	Surr
CHLOROMETHANE	27	U	15	MDL	270	LOD	ug/Kg	UJ	Surr
CIS-1,2-DICHLOROETHENE	11	U	7.4	MDL	270	LOD	ug/Kg	UJ	Surr
CIS-1,3-DICHLOROPROPENE	11	U	8.5	MDL	270	LOD	ug/Kg	UJ	Surr
DIBROMOCHLOROMETHANE	27	U	13	MDL	270	LOD	ug/Kg	UJ	Surr
ETHYL BENZENE	11	U	5.8	MDL	270	LOD	ug/Kg	UJ	Surr
METHYLENE CHLORIDE	100	J	83	MDL	270	LOD	ug/Kg	UJ	Mb, Surr
STYRENE	11	U	6.0	MDL	270	LOD	ug/Kg	UJ	Surr
TETRACHLOROETHENE	27	U	13	MDL	270	LOD	ug/Kg	UJ	Surr
TOLUENE	27	U	18	MDL	270	LOD	ug/Kg	UJ	Surr
TOTAL XYLENES	32	U	8.7	MDL	540	LOD	ug/Kg	UJ	Surr
TRANS-1,2-DICHLOROETHENE	27	U	9.9	MDL	270	LOD	ug/Kg	UJ	Surr
TRANS-1,3-DICHLOROPROPENE	27	U	21	MDL	270	LOD	ug/Kg	UJ	Surr
TRICHLOROETHENE	27	U	10	MDL	270	LOD	ug/Kg	UJ	Surr
VINYL CHLORIDE	27	U	19	MDL	270	LOD	ug/Kg	UJ	Surr

Sample ID: **LL1SB-645V-0103-SO** ***Collected:*** **7/12/2011 2:55:00** ***Analysis Type:*** **RES/WET** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,1,1-TRICHLOROETHANE	13	U	26	MDL	310	LOD	ug/Kg	UJ	Surr
1,1,2,2-TETRACHLOROETHANE	31	U	11	MDL	310	LOD	ug/Kg	UJ	Surr
1,1,2-TRICHLOROETHANE	31	U	15	MDL	310	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHANE	31	U	21	MDL	310	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHENE	31	U	23	MDL	310	LOD	ug/Kg	UJ	Surr
1,2-DIBROMOETHANE	31	U	13	MDL	310	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHANE	31	U	13	MDL	310	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHENE (TOTAL)	10	U	10	MDL	630	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROPROPANE	13	U	10	MDL	310	LOD	ug/Kg	UJ	Surr
2-BUTANONE	130	U	54	MDL	1300	LOD	ug/Kg	UJ	Surr
2-HEXANONE	63	U	25	MDL	1300	LOD	ug/Kg	UJ	Surr
4-METHYL-2-PENTANONE	130	U	60	MDL	1300	LOD	ug/Kg	UJ	Surr
ACETONE	250	U	210	MDL	1300	LOD	ug/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **VOA**

Method: **8260B** ***Matrix:*** **SO**

Sample ID: **LL1SB-645V-0103-SO** ***Collected:*** **7/12/2011 2:55:00** ***Analysis Type:*** **RES/WET** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZENE	31	U	15	MDL	310	LOD	ug/Kg	UJ	Surr
BROMOCHLOROMETHANE	31	U	16	MDL	310	LOD	ug/Kg	UJ	Surr
BROMODICHLOROMETHANE	31	U	12	MDL	310	LOD	ug/Kg	UJ	Surr
BROMOFORM	31	U	24	MDL	310	LOD	ug/Kg	UJ	Surr
BROMOMETHANE	63	U	37	MDL	310	LOD	ug/Kg	UJ	Surr
CARBON DISULFIDE	31	U	15	MDL	310	LOD	ug/Kg	UJ	Surr
CARBON TETRACHLORIDE	13	U	8.1	MDL	310	LOD	ug/Kg	UJ	Surr
CHLOROBENZENE	13	U	8.1	MDL	310	LOD	ug/Kg	UJ	Surr
CHLOROETHANE	130	U	77	MDL	310	LOD	ug/Kg	UJ	Surr
CHLOROFORM	31	U	11	MDL	310	LOD	ug/Kg	UJ	Surr
CHLOROMETHANE	31	U	18	MDL	310	LOD	ug/Kg	UJ	Surr
CIS-1,2-DICHLOROETHENE	13	U	8.7	MDL	310	LOD	ug/Kg	UJ	Surr
CIS-1,3-DICHLOROPROPENE	13	U	10	MDL	310	LOD	ug/Kg	UJ	Surr
DIBROMOCHLOROMETHANE	31	U	15	MDL	310	LOD	ug/Kg	UJ	Surr
ETHYL BENZENE	13	U	6.8	MDL	310	LOD	ug/Kg	UJ	Surr
METHYLENE CHLORIDE	130	J	97	MDL	310	LOD	ug/Kg	UJ	Mb, Surr
STYRENE	13	U	7.1	MDL	310	LOD	ug/Kg	UJ	Surr
TETRACHLOROETHENE	31	U	15	MDL	310	LOD	ug/Kg	UJ	Surr
TOLUENE	31	U	21	MDL	310	LOD	ug/Kg	UJ	Surr
TOTAL XYLENES	38	U	10	MDL	630	LOD	ug/Kg	UJ	Surr
TRANS-1,2-DICHLOROETHENE	31	U	12	MDL	310	LOD	ug/Kg	UJ	Surr
TRANS-1,3-DICHLOROPROPENE	31	U	25	MDL	310	LOD	ug/Kg	UJ	Surr
TRICHLOROETHENE	31	U	12	MDL	310	LOD	ug/Kg	UJ	Surr
VINYL CHLORIDE	31	U	23	MDL	310	LOD	ug/Kg	UJ	Surr

Sample ID: **LL2SS-516V-0001-SO** ***Collected:*** **7/12/2011 3:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1-TRICHLOROETHANE	9.2	U	19	MDL	230	LOD	ug/Kg	UJ	Surr
1,1,2,2-TETRACHLOROETHANE	23	U	8.2	MDL	230	LOD	ug/Kg	UJ	Surr
1,1,2-TRICHLOROETHANE	23	U	11	MDL	230	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHANE	23	U	16	MDL	230	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHENE	23	U	16	MDL	230	LOD	ug/Kg	UJ	Surr
1,2-DIBROMOETHANE	23	U	9.2	MDL	230	LOD	ug/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **VOA**

Method: **8260B** ***Matrix:*** **SO**

Sample ID: **LL2SS-516V-0001-SO** ***Collected:*** **7/12/2011 3:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2-DICHLOROETHANE	23	U	9.2	MDL	230	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHENE (TOTAL)	7.5	U	7.5	MDL	460	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROPROPANE	9.2	U	7.5	MDL	230	LOD	ug/Kg	UJ	Surr
2-BUTANONE	92	U	39	MDL	920	LOD	ug/Kg	UJ	Surr
2-HEXANONE	46	U	18	MDL	920	LOD	ug/Kg	UJ	Surr
4-METHYL-2-PENTANONE	92	U	44	MDL	920	LOD	ug/Kg	UJ	Surr
ACETONE	180	U	160	MDL	920	LOD	ug/Kg	UJ	Surr
BENZENE	23	U	11	MDL	230	LOD	ug/Kg	UJ	Surr
BROMOCHLOROMETHANE	23	U	12	MDL	230	LOD	ug/Kg	UJ	Surr
BROMODICHLOROMETHANE	23	U J	9.1	MDL	230	LOD	ug/Kg	UJ	Ms, Surr
BROMOFORM	23	U	17	MDL	230	LOD	ug/Kg	UJ	Surr
BROMOMETHANE	46	U	27	MDL	230	LOD	ug/Kg	UJ	Surr
CARBON DISULFIDE	23	U	11	MDL	230	LOD	ug/Kg	UJ	Surr
CARBON TETRACHLORIDE	9.2	U	5.9	MDL	230	LOD	ug/Kg	UJ	Surr
CHLOROBENZENE	9.2	U	5.9	MDL	230	LOD	ug/Kg	UJ	Surr
CHLOROETHANE	92	U	56	MDL	230	LOD	ug/Kg	UJ	Surr
CHLOROFORM	23	U	8.1	MDL	230	LOD	ug/Kg	UJ	Surr
CHLOROMETHANE	23	U	13	MDL	230	LOD	ug/Kg	UJ	Surr
CIS-1,2-DICHLOROETHENE	9.2	U	6.3	MDL	230	LOD	ug/Kg	UJ	Surr
CIS-1,3-DICHLOROPROPENE	9.2	U J	7.2	MDL	230	LOD	ug/Kg	UJ	Ms, Surr
DIBROMOCHLOROMETHANE	23	U	11	MDL	230	LOD	ug/Kg	UJ	Surr
ETHYL BENZENE	9.2	U	4.9	MDL	230	LOD	ug/Kg	UJ	Surr
METHYLENE CHLORIDE	200	J	71	MDL	230	LOD	ug/Kg	UJ	Mb, Surr
STYRENE	9.2	U J	5.1	MDL	230	LOD	ug/Kg	UJ	Ms, Surr
TETRACHLOROETHENE	23	U	11	MDL	230	LOD	ug/Kg	UJ	Surr
TOLUENE	23	U	16	MDL	230	LOD	ug/Kg	UJ	Surr
TOTAL XYLENES	27	U	7.4	MDL	460	LOD	ug/Kg	UJ	Surr
TRANS-1,2-DICHLOROETHENE	23	U	8.4	MDL	230	LOD	ug/Kg	UJ	Surr
TRANS-1,3-DICHLOROPROPENE	23	U J	18	MDL	230	LOD	ug/Kg	UJ	Ms, Surr
TRICHLOROETHENE	23	U	8.9	MDL	230	LOD	ug/Kg	UJ	Surr
VINYL CHLORIDE	23	U J	16	MDL	230	LOD	ug/Kg	UJ	Surr

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **VOA**

Method: **8260B** ***Matrix:*** **SO**

Sample ID: **LL2SS-517V-0001-SO** ***Collected:*** **7/12/2011 3:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,1,1-TRICHLOROETHANE	8.3	U	18	MDL	210	LOD	ug/Kg	UJ	Surr
1,1,2,2-TETRACHLOROETHANE	21	U	7.4	MDL	210	LOD	ug/Kg	UJ	Surr
1,1,2-TRICHLOROETHANE	21	U	10	MDL	210	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHANE	21	U	14	MDL	210	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHENE	21	U	15	MDL	210	LOD	ug/Kg	UJ	Surr
1,2-DIBROMOETHANE	21	U	8.3	MDL	210	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHANE	21	U	8.3	MDL	210	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHENE (TOTAL)	6.8	U	6.8	MDL	420	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROPROPANE	8.3	U	6.8	MDL	210	LOD	ug/Kg	UJ	Surr
2-BUTANONE	83	U	36	MDL	830	LOD	ug/Kg	UJ	Surr
2-HEXANONE	42	U	17	MDL	830	LOD	ug/Kg	UJ	Surr
4-METHYL-2-PENTANONE	83	U	40	MDL	830	LOD	ug/Kg	UJ	Surr
ACETONE	170	U	140	MDL	830	LOD	ug/Kg	UJ	Surr
BENZENE	21	U	10	MDL	210	LOD	ug/Kg	UJ	Surr
BROMOCHLOROMETHANE	21	U	11	MDL	210	LOD	ug/Kg	UJ	Surr
BROMODICHLOROMETHANE	21	U	8.3	MDL	210	LOD	ug/Kg	UJ	Ms, Surr
BROMOFORM	21	U	16	MDL	210	LOD	ug/Kg	UJ	Surr
BROMOMETHANE	42	U	24	MDL	210	LOD	ug/Kg	UJ	Surr
CARBON DISULFIDE	21	U	10	MDL	210	LOD	ug/Kg	UJ	Surr
CARBON TETRACHLORIDE	8.3	U	5.3	MDL	210	LOD	ug/Kg	UJ	Surr
CHLOROBENZENE	8.3	U	5.3	MDL	210	LOD	ug/Kg	UJ	Surr
CHLOROETHANE	83	U	51	MDL	210	LOD	ug/Kg	UJ	Surr
CHLOROFORM	21	U	7.3	MDL	210	LOD	ug/Kg	UJ	Surr
CHLOROMETHANE	21	U	12	MDL	210	LOD	ug/Kg	UJ	Surr
CIS-1,2-DICHLOROETHENE	8.3	U	5.8	MDL	210	LOD	ug/Kg	UJ	Surr
CIS-1,3-DICHLOROPROPENE	8.3	U	6.6	MDL	210	LOD	ug/Kg	UJ	Ms, Surr
DIBROMOCHLOROMETHANE	21	U	10	MDL	210	LOD	ug/Kg	UJ	Surr
ETHYL BENZENE	8.3	U	4.5	MDL	210	LOD	ug/Kg	UJ	Surr
METHYLENE CHLORIDE	130	J	64	MDL	210	LOD	ug/Kg	UJ	Mb, Surr
STYRENE	8.3	U	4.7	MDL	210	LOD	ug/Kg	UJ	Ms, Surr
TETRACHLOROETHENE	21	U	10	MDL	210	LOD	ug/Kg	UJ	Surr
TOLUENE	21	U	14	MDL	210	LOD	ug/Kg	UJ	Surr
TOTAL XYLENES	25	U	6.8	MDL	420	LOD	ug/Kg	UJ	Surr
TRANS-1,2-DICHLOROETHENE	21	U	7.7	MDL	210	LOD	ug/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **VOA**

Method: **8260B** ***Matrix:*** **SO**

Sample ID: **LL2SS-517V-0001-SO** ***Collected:*** **7/12/2011 3:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TRANS-1,3-DICHLOROPROPENE	21	U	17	MDL	210	LOD	ug/Kg	UJ	Ms, Surr
TRICHLOROETHENE	21	U	8.1	MDL	210	LOD	ug/Kg	UJ	Surr
VINYL CHLORIDE	21	U	15	MDL	210	LOD	ug/Kg	UJ	Surr

Sample ID: **LL3SD-416V-0001-SD** ***Collected:*** **7/12/2011 3:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1-TRICHLOROETHANE	9.3	U	20	MDL	230	LOD	ug/Kg	UJ	Surr
1,1,2,2-TETRACHLOROETHANE	23	U	8.3	MDL	230	LOD	ug/Kg	UJ	Surr
1,1,2-TRICHLOROETHANE	23	U	11	MDL	230	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHANE	23	U	16	MDL	230	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHENE	23	U	17	MDL	230	LOD	ug/Kg	UJ	Surr
1,2-DIBROMOETHANE	23	U	9.3	MDL	230	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHANE	23	U	9.3	MDL	230	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHENE (TOTAL)	7.7	U	7.7	MDL	470	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROPROPANE	9.3	U	7.7	MDL	230	LOD	ug/Kg	UJ	Surr
2-BUTANONE	93	U	40	MDL	930	LOD	ug/Kg	UJ	Surr
2-HEXANONE	47	U	19	MDL	930	LOD	ug/Kg	UJ	Surr
4-METHYL-2-PENTANONE	93	U	45	MDL	930	LOD	ug/Kg	UJ	Surr
ACETONE	190	U	160	MDL	930	LOD	ug/Kg	UJ	Surr
BENZENE	23	U	11	MDL	230	LOD	ug/Kg	UJ	Surr
BROMOCHLOROMETHANE	23	U	12	MDL	230	LOD	ug/Kg	UJ	Surr
BROMODICHLOROMETHANE	23	U	9.2	MDL	230	LOD	ug/Kg	UJ	Ms, Surr
BROMOFORM	23	U	18	MDL	230	LOD	ug/Kg	UJ	Surr
BROMOMETHANE	47	U	27	MDL	230	LOD	ug/Kg	UJ	Surr
CARBON DISULFIDE	42	J	11	MDL	230	LOD	ug/Kg	J	RI, Surr
CARBON TETRACHLORIDE	9.3	U	6.0	MDL	230	LOD	ug/Kg	UJ	Surr
CHLOROBENZENE	9.3	U	6.0	MDL	230	LOD	ug/Kg	UJ	Surr
CHLOROETHANE	93	U	57	MDL	230	LOD	ug/Kg	UJ	Surr
CHLOROFORM	23	U	8.2	MDL	230	LOD	ug/Kg	UJ	Surr
CHLOROMETHANE	23	U	13	MDL	230	LOD	ug/Kg	UJ	Surr
CIS-1,2-DICHLOROETHENE	9.3	U	6.4	MDL	230	LOD	ug/Kg	UJ	Surr
CIS-1,3-DICHLOROPROPENE	9.3	U	7.4	MDL	230	LOD	ug/Kg	UJ	Ms, Surr
DIBROMOCHLOROMETHANE	23	U	11	MDL	230	LOD	ug/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **VOA**

Method: **8260B** ***Matrix:*** **SO**

Sample ID: **LL3SD-416V-0001-SD** ***Collected:*** **7/12/2011 3:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHYL BENZENE	9.3	U	5.0	MDL	230	LOD	ug/Kg	UJ	Surr
METHYLENE CHLORIDE	150	J	72	MDL	230	LOD	ug/Kg	UJ	Mb, Surr
STYRENE	9.3	U	5.2	MDL	230	LOD	ug/Kg	UJ	Ms, Surr
TETRACHLOROETHENE	23	U	11	MDL	230	LOD	ug/Kg	UJ	Surr
TOLUENE	23	U	16	MDL	230	LOD	ug/Kg	UJ	Surr
TOTAL XYLENES	28	U	7.6	MDL	470	LOD	ug/Kg	UJ	Surr
TRANS-1,2-DICHLOROETHENE	23	U	8.6	MDL	230	LOD	ug/Kg	UJ	Surr
TRANS-1,3-DICHLOROPROPENE	23	U	19	MDL	230	LOD	ug/Kg	UJ	Ms, Surr
TRICHLOROETHENE	23	U	9.1	MDL	230	LOD	ug/Kg	UJ	Surr
VINYL CHLORIDE	23	U	17	MDL	230	LOD	ug/Kg	UJ	Surr

Sample ID: **LL3SD-417V-0001-SD** ***Collected:*** **7/12/2011 3:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1-TRICHLOROETHANE	8.3	U	17	MDL	210	LOD	ug/Kg	UJ	Surr
1,1,2,2-TETRACHLOROETHANE	21	U	7.4	MDL	210	LOD	ug/Kg	UJ	Surr
1,1,2-TRICHLOROETHANE	21	U	10	MDL	210	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHANE	21	U	14	MDL	210	LOD	ug/Kg	UJ	Surr
1,1-DICHLOROETHENE	21	U	15	MDL	210	LOD	ug/Kg	UJ	Surr
1,2-DIBROMOETHANE	21	U	8.3	MDL	210	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHANE	21	U	8.3	MDL	210	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROETHENE (TOTAL)	6.8	U	6.8	MDL	410	LOD	ug/Kg	UJ	Surr
1,2-DICHLOROPROPANE	8.3	U	6.8	MDL	210	LOD	ug/Kg	UJ	Surr
2-BUTANONE	83	U	36	MDL	830	LOD	ug/Kg	UJ	Surr
2-HEXANONE	41	U	17	MDL	830	LOD	ug/Kg	UJ	Surr
4-METHYL-2-PENTANONE	83	U	40	MDL	830	LOD	ug/Kg	UJ	Surr
ACETONE	170	U	140	MDL	830	LOD	ug/Kg	UJ	Surr
BENZENE	21	U	10	MDL	210	LOD	ug/Kg	UJ	Surr
BROMOCHLOROMETHANE	21	U	11	MDL	210	LOD	ug/Kg	UJ	Surr
BROMODICHLOROMETHANE	21	U	8.2	MDL	210	LOD	ug/Kg	UJ	Ms, Surr
BROMOFORM	21	U	16	MDL	210	LOD	ug/Kg	UJ	Surr
BROMOMETHANE	41	U	24	MDL	210	LOD	ug/Kg	UJ	Surr
CARBON DISULFIDE	38	J	10	MDL	210	LOD	ug/Kg	J	RI, Surr
CARBON TETRACHLORIDE	8.3	U	5.3	MDL	210	LOD	ug/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method Category: **VOA**

Method: **8260B** ***Matrix:*** **SO**

Sample ID: **LL3SD-417V-0001-SD** ***Collected:*** **7/12/2011 3:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
CHLOROBENZENE	8.3	U	5.3	MDL	210	LOD	ug/Kg	UJ	Surr
CHLOROETHANE	83	U	51	MDL	210	LOD	ug/Kg	UJ	Surr
CHLOROFORM	21	U	7.3	MDL	210	LOD	ug/Kg	UJ	Surr
CHLOROMETHANE	21	U	12	MDL	210	LOD	ug/Kg	UJ	Surr
CIS-1,2-DICHLOROETHENE	8.3	U	5.7	MDL	210	LOD	ug/Kg	UJ	Surr
CIS-1,3-DICHLOROPROPENE	8.3	U	6.6	MDL	210	LOD	ug/Kg	UJ	Ms, Surr
DIBROMOCHLOROMETHANE	21	U	10	MDL	210	LOD	ug/Kg	UJ	Surr
ETHYL BENZENE	23	J	4.5	MDL	210	LOD	ug/Kg	J	RI, Surr
METHYLENE CHLORIDE	130	J	64	MDL	210	LOD	ug/Kg	UJ	Mb, Surr
STYRENE	8.3	U	4.6	MDL	210	LOD	ug/Kg	UJ	Ms, Surr
TETRACHLOROETHENE	21	U	10	MDL	210	LOD	ug/Kg	UJ	Surr
TOLUENE	51	J	14	MDL	210	LOD	ug/Kg	J	RI, Surr
TOTAL XYLENES	220	J	6.7	MDL	410	LOD	ug/Kg	J	RI, Surr
TRANS-1,2-DICHLOROETHENE	21	U	7.6	MDL	210	LOD	ug/Kg	UJ	Surr
TRANS-1,3-DICHLOROPROPENE	21	U	17	MDL	210	LOD	ug/Kg	UJ	Ms, Surr
TRICHLOROETHENE	21	U	8.0	MDL	210	LOD	ug/Kg	UJ	Surr
VINYL CHLORIDE	21	U	15	MDL	210	LOD	ug/Kg	UJ	Surr

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Reason Code Legend

Reason Code	*Description*
Fb	Field Blank Contamination
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Lower Rejection
Lcs	Laboratory Control Spike Upper Estimation
Lcs	Laboratory Control Spike Upper Rejection
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Lower Rejection
Ms	Matrix Spike Precision
Ms	Matrix Spike Upper Estimation
Ms	Matrix Spike Upper Rejection
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Lower Rejection
Surr	Surrogate/Tracer Recovery Upper Estimation
Surr	Surrogate/Tracer Recovery Upper Rejection

Surrogate Outlier Report

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 8081A
Matrix: SO

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
L12SS-300M-0001-SO	DECACHLOROBIPHENYL	0	55.00-130.00	All Target Analytes	J-(all detects) R(all non-detects)
L12SS-300M-0001-SO	TETRACHLORO-M-XYLENE	2270	70.00-125.00	All Target Analytes	J+(all detects) R(all non-detects)
L12SS-301M-0001-SO	DECACHLOROBIPHENYL	0	55.00-130.00	All Target Analytes	J-(all detects) R(all non-detects)
L12SS-301M-0001-SO	TETRACHLORO-M-XYLENE	3050	70.00-125.00	All Target Analytes	J+(all detects) R(all non-detects)
LL1SB-644M-0101-SO	TETRACHLORO-M-XYLENE	395	70.00-125.00	All Target Analytes	J+(all detects) R(all non-detects)
LL1SB-644M-0102-SO	TETRACHLORO-M-XYLENE	163	70.00-125.00	All Target Analytes	J+(all detects) R(all non-detects)
LL1SB-645M-0101-SO	DECACHLOROBIPHENYL	134	55.00-130.00	All Target Analytes	J+(all detects)
LL1SB-645M-0101-SO	TETRACHLORO-M-XYLENE	395	70.00-125.00	All Target Analytes	J+(all detects) R(all non-detects)
LL1SB-645M-0102-SO	TETRACHLORO-M-XYLENE	265	70.00-125.00	All Target Analytes	J+(all detects) R(all non-detects)
LL1SB-645M-0103-SO	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	556 1440	55.00-130.00 70.00-125.00	All Target Analytes	J+(all detects) R(all non-detects)
LL2SS-516M-0001-SO	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	769 163	55.00-130.00 70.00-125.00	All Target Analytes	J+(all detects) R(all non-detects)
LL2SS-517M-0001-SO	DECACHLOROBIPHENYL	0	55.00-130.00	All Target Analytes	J-(all detects) R(all non-detects)
LL2SS-517M-0001-SO	TETRACHLORO-M-XYLENE	2725	70.00-125.00	All Target Analytes	J+(all detects) R(all non-detects)
LL3SD-416M-0001-SD	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	1624 243	55.00-130.00 70.00-125.00	All Target Analytes	J+(all detects) R(all non-detects)
LL3SD-417M-0001-SD	DECACHLOROBIPHENYL	0	55.00-130.00	All Target Analytes	J-(all detects) R(all non-detects)
LL3SD-417M-0001-SD	TETRACHLORO-M-XYLENE	2363	70.00-125.00	All Target Analytes	J+(all detects) R(all non-detects)

Method: 8082
Matrix: SO

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
L12SS-300M-0001-SO	DECACHLOROBIPHENYL	307	60.00-125.00	All Target Analytes	J+(all detects) R(all non-detects)
L12SS-301M-0001-SO	DECACHLOROBIPHENYL	257	60.00-125.00	All Target Analytes	J+(all detects) R(all non-detects)
LL1SB-644M-0101-SO	DECACHLOROBIPHENYL	144	60.00-125.00	All Target Analytes	J+(all detects)
LL1SB-644M-0102-SO	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	0 0	60.00-125.00 60.00-125.00	All Target Analytes	J-(all detects) R(all non-detects)
LL1SB-644M-0103-SO	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	0 0	60.00-125.00 60.00-125.00	All Target Analytes	J-(all detects) R(all non-detects)
LL1SB-645M-0102-SO	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	0 0	60.00-125.00 60.00-125.00	All Target Analytes	J-(all detects) R(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 8082
Matrix: SO

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
LL2SS-516M-0001-SO	DECACHLOROBIPHENYL	152	60.00-125.00	All Target Analytes	J+(all detects) R(all non-detects)
LL2SS-517M-0001-SO	TETRACHLORO-M-XYLENE	42	60.00-125.00	All Target Analytes	J-(all detects) UJ(all non-detects)
LL2SS-519M-0001-SO	DECACHLOROBIPHENYL	156	60.00-125.00	All Target Analytes	J+(all detects) R(all non-detects)
LL3SD-416M-0001-SD	DECACHLOROBIPHENYL	146	60.00-125.00	All Target Analytes	J+(all detects)
LL3SD-417M-0001-SD	DECACHLOROBIPHENYL	152	60.00-125.00	All Target Analytes	J+(all detects) R(all non-detects)

Method: 8260B
Matrix: SO

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
L12SS-300V-0001-SO	4-Bromofluorobenzene DIBROMOFLUOROMETHANE TOLUENE-D8	80 75 83	85.00-120.00 85.00-120.00 85.00-115.00	All Target Analytes	J-(all detects) UJ(all non-detects)
L12SS-301V-0001-SO	1,2-DICHLOROETHANE-D4 4-Bromofluorobenzene DIBROMOFLUOROMETHANE TOLUENE-D8	80 78 70 78	85.00-120.00 85.00-120.00 85.00-120.00 85.00-115.00	All Target Analytes	J-(all detects) UJ(all non-detects)
LL1SB-644V-0101-SO (RES/WET)	4-Bromofluorobenzene DIBROMOFLUOROMETHANE TOLUENE-D8	74 70 77	85.00-120.00 85.00-120.00 85.00-115.00	All Target Analytes	J-(all detects) UJ(all non-detects)
LL1SB-644V-0102-SO (RES/WET)	4-Bromofluorobenzene DIBROMOFLUOROMETHANE TOLUENE-D8	79 74 82	85.00-120.00 85.00-120.00 85.00-115.00	All Target Analytes	J-(all detects) UJ(all non-detects)
LL1SB-644V-0103-SO (RES/WET)	4-Bromofluorobenzene DIBROMOFLUOROMETHANE TOLUENE-D8	79 72 80	85.00-120.00 85.00-120.00 85.00-115.00	All Target Analytes	J-(all detects) UJ(all non-detects)
LL1SB-645V-0101-SO (RES/WET)	1,2-DICHLOROETHANE-D4 4-Bromofluorobenzene DIBROMOFLUOROMETHANE TOLUENE-D8	84 74 69 75	85.00-120.00 85.00-120.00 85.00-120.00 85.00-115.00	All Target Analytes	J-(all detects) UJ(all non-detects)
LL1SB-645V-0102-SO (RES/WET)	4-Bromofluorobenzene DIBROMOFLUOROMETHANE TOLUENE-D8	79 73 80	85.00-120.00 85.00-120.00 85.00-115.00	All Target Analytes	J-(all detects) UJ(all non-detects)
LL1SB-645V-0103-SO (RES/WET)	4-Bromofluorobenzene DIBROMOFLUOROMETHANE TOLUENE-D8	82 76 81	85.00-120.00 85.00-120.00 85.00-115.00	All Target Analytes	J-(all detects) UJ(all non-detects)
LL2SS-516V-0001-SO	4-Bromofluorobenzene DIBROMOFLUOROMETHANE TOLUENE-D8	76 71 77	85.00-120.00 85.00-120.00 85.00-115.00	All Target Analytes	J-(all detects) UJ(all non-detects)
LL2SS-517V-0001-SO	4-Bromofluorobenzene DIBROMOFLUOROMETHANE TOLUENE-D8	78 72 78	85.00-120.00 85.00-120.00 85.00-115.00	All Target Analytes	J-(all detects) UJ(all non-detects)
LL3SD-416V-0001-SD	1,2-DICHLOROETHANE-D4 4-Bromofluorobenzene DIBROMOFLUOROMETHANE TOLUENE-D8	83 74 67 74	85.00-120.00 85.00-120.00 85.00-120.00 85.00-115.00	All Target Analytes	J-(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 8260B
Matrix: SO

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
LL3SD-417V-0001-SD	1,2-DICHLOROETHANE-D4	82	85.00-120.00	All Target Analytes	J-(all detects) UJ(all non-detects)
	4-Bromofluorobenzene	76	85.00-120.00		
	DIBROMOFLUOROMETHANE	68	85.00-120.00		
	TOLUENE-D8	76	85.00-115.00		

Method: 8270C
Matrix: AQ

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EQUIP RINSATE 2-1-11	2,4,6-TRIBROMOPHENOL	31	40.00-125.00	All Base/Neutral Target Analytes	J- (all detects) UJ (all non-detects)
	2-FLUOROBIPHENYL	37	50.00-110.00		
	Terphenyl-d14	47	50.00-135.00		

Method: 8270C
Matrix: SO

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
LL1SB-641M-0102-SO	2,4,6-TRIBROMOPHENOL	32	35.00-125.00	No Affected Compounds	
LL1SB-641M-0103-SO	2,4,6-TRIBROMOPHENOL	31	35.00-125.00	No Affected Compounds	
LL1SB-644M-0102-SO	2,4,6-TRIBROMOPHENOL	34	35.00-125.00	No Affected Compounds	
LL1SB-645M-0102-SO	2,4,6-TRIBROMOPHENOL	34	35.00-125.00	No Affected Compounds	
LL2SB-512M-0102-SO	2-FLUOROBIPHENYL	33	45.00-105.00	All Base/Neutral Target Analytes	J-(all detects) R(all non-detects)
LL2SB-512M-0102-SO	Nitrobenzene-d5	33	35.00-100.00	No Affected Compounds	
LL3SS-419M-0001-SO	2,4,6-TRIBROMOPHENOL	33	35.00-125.00	No Affected Compounds	

Field Duplicate RPD Report

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	LL1SB-645M-0102-SO	LL1SB-644M-0102-SO			
Nitrocellulose	1.4	2.5	56	50.00	No Qualifiers Applied

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	L12SS-301M-0001-SO	L12SS-300M-0001-SO			
Nitrocellulose	2.6	2.1	21	50.00	No Qualifiers Applied

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	LL2SS-517M-0001-SO	LL2SS-516M-0001-SO			
Nitrocellulose	0.94	0.85	10	50.00	No Qualifiers Applied

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	LL3SD-417M-0001-SD	LL3SD-416M-0001-SD			
Nitrocellulose	1.4	1.4	0	50.00	No Qualifiers Applied

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	LL1SB-645M-0102-SO (TOT)	LL1SB-644M-0102-SO (TOT)			
ALUMINUM	6200	6600	6	50.00	
ANTIMONY	0.20 U	0.086	200	50.00	
ARSENIC	5.5	6.0	9	50.00	
BARIUM	71	60	17	50.00	
BERYLLIUM	0.59	0.53	11	50.00	
CADMIUM	0.44	0.60	31	50.00	
CALCIUM	29000	26000	11	50.00	
CHROMIUM	27	28	4	50.00	
COBALT	4.0	3.7	8	50.00	
COPPER	12	12	0	50.00	
IRON	13000	14000	7	50.00	No Qualifiers Applied
LEAD	75	70	7	50.00	
MAGNESIUM	2800	2700	4	50.00	
MANGANESE	690	670	3	50.00	
NICKEL	17	17	0	50.00	
POTASSIUM	690	580	17	50.00	
SELENIUM	0.65	0.71	9	50.00	
SODIUM	96	91	5	50.00	
THALLIUM	0.093	0.067	32	50.00	
VANADIUM	8.8	8.6	2	50.00	
ZINC	63	130	69	50.00	

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	L12SS-301M-0001-SO (TOT)	L12SS-300M-0001-SO (TOT)			

Field Duplicate RPD Report

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 6020
Matrix: SO

Analyte	LL2SS-517M-0001-SO (TOT)	LL2SS-516M-0001-SO (TOT)	Sample RPD	eQAPP RPD	Flag
ALUMINUM	24000	20000	18	50.00	
ANTIMONY	1.4	0.96	37	50.00	
ARSENIC	12	16	29	50.00	
BARIUM	84	79	6	50.00	
BERYLLIUM	0.94	0.86	9	50.00	
CADMIUM	1.4	1.0	33	50.00	
CALCIUM	19000	17000	11	50.00	
CHROMIUM	58	57	2	50.00	
COBALT	6.7	7.4	10	50.00	
COPPER	650	440	39	50.00	
IRON	25000	25000	0	50.00	No Qualifiers Applied
LEAD	110	67	49	50.00	
MAGNESIUM	4300	4200	2	50.00	
MANGANESE	820	1200	38	50.00	
NICKEL	54	51	6	50.00	
POTASSIUM	980	980	0	50.00	
SELENIUM	1.2	1.4	15	50.00	
SILVER	0.32	0.26	21	50.00	
SODIUM	130	110	17	50.00	
THALLIUM	1.7 U	0.099	200	50.00	
VANADIUM	21	19	10	50.00	
ZINC	340	280	19	50.00	

Analyte	Concentration (mg/Kg) LL2SS-517M-0001-SO (TOT)	Concentration (mg/Kg) LL2SS-516M-0001-SO (TOT)	Sample RPD	eQAPP RPD	Flag
ALUMINUM	11000	8100	30	50.00	
ANTIMONY	0.14	0.15	7	50.00	
ARSENIC	9.2	10	8	50.00	
BARIUM	88	79	11	50.00	
BERYLLIUM	1.0	0.86	15	50.00	
CADMIUM	0.17	0.27	45	50.00	
CALCIUM	23000	17000	30	50.00	
CHROMIUM	32	27	17	50.00	
COBALT	9.2	8.3	10	50.00	
COPPER	18	19	5	50.00	
IRON	20000	20000	0	50.00	No Qualifiers Applied
LEAD	33	35	6	50.00	
MAGNESIUM	4500	4100	9	50.00	
MANGANESE	870	670	26	50.00	
NICKEL	29	26	11	50.00	
POTASSIUM	1200	1100	9	50.00	
SELENIUM	1.1	1.2	9	50.00	
SODIUM	170	160	6	50.00	
THALLIUM	0.15	0.17	13	50.00	
VANADIUM	14	15	7	50.00	
ZINC	62	88	35	50.00	

Analyte	Concentration (mg/Kg) LL3SD-417M-0001-SD (TOT)	Concentration (mg/Kg) LL3SD-416M-0001-SD (TOT)	Sample RPD	eQAPP RPD	Flag

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Field Duplicate RPD Report

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 6020
Matrix: SO

ALUMINUM	9400	10000	6	50.00	
ANTIMONY	1.5	1.4	7	50.00	
ARSENIC	13	14	7	50.00	
BARIUM	130	150	14	50.00	
BERYLLIUM	1.2	1.3	8	50.00	
CADMIUM	1.1	1.0	10	50.00	
CALCIUM	9800	15000	42	50.00	
CHROMIUM	31	26	18	50.00	
COBALT	19	21	10	50.00	
COPPER	10	9.6	4	50.00	
IRON	25000	24000	4	50.00	No Qualifiers Applied
LEAD	22	23	4	50.00	
MAGNESIUM	2400	3400	34	50.00	
MANGANESE	3400	3700	8	50.00	
NICKEL	30	28	7	50.00	
POTASSIUM	670	730	9	50.00	
SELENIUM	1.1	1.1	0	50.00	
SODIUM	69	110	46	50.00	
THALLIUM	0.13	0.16	21	50.00	
VANADIUM	23	23	0	50.00	
ZINC	170	160	6	50.00	

Method: 7196A
Matrix: SO

Analyte	Concentration (mg/Kg) L12SS-301M-0001-SO (TOT)	Concentration (mg/Kg) L12SS-300M-0001-SO (TOT)	Sample RPD	eQAPP RPD	Flag
HEXAVALENT CHROMIUM	0.29	0.82 U	200	50.00	No Qualifiers Applied

Analyte	Concentration (mg/Kg) LL2SS-517M-0001-SO (TOT)	Concentration (mg/Kg) LL2SS-516M-0001-SO (TOT)	Sample RPD	eQAPP RPD	Flag
HEXAVALENT CHROMIUM	0.82 U	0.45	200	50.00	No Qualifiers Applied

Analyte	Concentration (mg/Kg) LL3SD-417M-0001-SD (TOT)	Concentration (mg/Kg) LL3SD-416M-0001-SD (TOT)	Sample RPD	eQAPP RPD	Flag
HEXAVALENT CHROMIUM	0.45	0.46	2	50.00	No Qualifiers Applied

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg) LL1SB-645M-0102-SO (TOT)	Concentration (mg/Kg) LL1SB-644M-0102-SO (TOT)	Sample RPD	eQAPP RPD	Flag
MERCURY	0.043	0.039	10	50.00	No Qualifiers Applied

Analyte	Concentration (mg/Kg) L12SS-301M-0001-SO (TOT)	Concentration (mg/Kg) L12SS-300M-0001-SO (TOT)	Sample RPD	eQAPP RPD	Flag
MERCURY	0.11	0.088	22	50.00	No Qualifiers Applied

Analyte	Concentration (mg/Kg) LL2SS-517M-0001-SO (TOT)	Concentration (mg/Kg) LL2SS-516M-0001-SO (TOT)	Sample RPD	eQAPP RPD	Flag
MERCURY	0.022	0.023	4	50.00	No Qualifiers Applied

Field Duplicate RPD Report

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg) LL3SD-417M-0001-SD (TOT)	LL3SD-416M-0001-SD (TOT)	Sample RPD	eQAPP RPD	Flag
MERCURY	0.33	0.30	10	50.00	No Qualifiers Applied

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg) LL1SB-645M-0102-SO	LL1SB-644M-0102-SO	Sample RPD	eQAPP RPD	Flag
4,4'-DDE	210	190	10	50.00	
ENDOSULFAN I	13	11	17	50.00	
ENDRIN	16	35 U	200	50.00	No Qualifiers Applied
ENDRIN ALDEHYDE	420	360	15	50.00	
GAMMA-CHLORDANE	650	580	11	50.00	

Analyte	Concentration (ug/Kg) L12SS-301M-0001-SO	L12SS-300M-0001-SO	Sample RPD	eQAPP RPD	Flag
ENDRIN KETONE	130	80	48	50.00	No Qualifiers Applied
GAMMA-CHLORDANE	71	87 U Q	200	50.00	

Analyte	Concentration (ug/Kg) LL2SS-517M-0001-SO	LL2SS-516M-0001-SO	Sample RPD	eQAPP RPD	Flag
4,4'-DDE	87 U	19	200	50.00	No Qualifiers Applied
GAMMA-CHLORDANE	87 U Q	9.9	200	50.00	

Analyte	Concentration (ug/Kg) LL3SD-417M-0001-SD	LL3SD-416M-0001-SD	Sample RPD	eQAPP RPD	Flag
BETA-BHC	130	130	0	50.00	No Qualifiers Applied

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg) LL1SB-645M-0102-SO	LL1SB-644M-0102-SO	Sample RPD	eQAPP RPD	Flag
AROCLOR 1254	18000	14000	25	50.00	No Qualifiers Applied

Analyte	Concentration (ug/Kg) L12SS-301M-0001-SO	L12SS-300M-0001-SO	Sample RPD	eQAPP RPD	Flag
AROCLOR 1260	930	770	19	50.00	No Qualifiers Applied

Analyte	Concentration (ug/Kg) LL2SS-517M-0001-SO	LL2SS-516M-0001-SO	Sample RPD	eQAPP RPD	Flag
AROCLOR 1254	250	670	91	50.00	No Qualifiers Applied

Analyte	Concentration (ug/Kg) LL3SD-417M-0001-SD	LL3SD-416M-0001-SD	Sample RPD	eQAPP RPD	Flag
AROCLOR 1254	86	44	65	50.00	No Qualifiers Applied

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Field Duplicate RPD Report

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 8082
Matrix: SO

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg) LL1SB-645M-0102-SO	Concentration (ug/Kg) LL1SB-644M-0102-SO	Sample RPD	eQAPP RPD	Flag
2-METHYLNAPHTHALENE	11	21	62	50.00	
ACENAPHTHENE	18	18	0	50.00	
ANTHRACENE	58	60	3	50.00	
BENZO(A)ANTHRACENE	120	130	8	50.00	
BENZO(A)PYRENE	99	100	1	50.00	
BENZO(B)FLUORANTHENE	130	150	14	50.00	
BENZO(G,H,I)PERYLENE	62	65	5	50.00	
BENZO(K)FLUORANTHENE	62	60	3	50.00	
BIS(2-ETHYLHEXYL) PHTHALATE	170	380	76	50.00	
CHRYSENE	120	120	0	50.00	
DIBENZO(A,H)ANTHRACENE	14	18	25		No Qualifiers Applied
DIBENZOFURAN	16	51 U	200	50.00	
DIETHYL PHTHALATE	26	33	24	50.00	
DI-N-BUTYL PHTHALATE	23	27	16	50.00	
FLUORANTHENE	300	340	12	50.00	
FLUORENE	23	23	0	50.00	
INDENO(1,2,3-CD)PYRENE	58	59	2	50.00	
NAPHTHALENE	6.8	12	55	50.00	
PHENANTHRENE	210	230	9	50.00	
PHENOL	51 U	31	200	50.00	
PYRENE	230	270	16	50.00	

Analyte	Concentration (ug/Kg) L12SS-301M-0001-SO	Concentration (ug/Kg) L12SS-300M-0001-SO	Sample RPD	eQAPP RPD	Flag
2-METHYLNAPHTHALENE	720	530	30	50.00	
ACENAPHTHENE	750	570	27	50.00	
ACENAPHTHYLENE	600	280	73	50.00	
ANTHRACENE	3700	2300	47	50.00	
BENZO(A)ANTHRACENE	8300	5000	50	50.00	
BENZO(A)PYRENE	6800	4500	41	50.00	
BENZO(B)FLUORANTHENE	8500	5200	48	50.00	
BENZO(G,H,I)PERYLENE	3800	2600	38	50.00	
BENZO(K)FLUORANTHENE	4400	3600	20	50.00	
CARBAZOLE	980	680	36	50.00	No Qualifiers Applied
CHRYSENE	8100	5400	40	50.00	
DIBENZO(A,H)ANTHRACENE	960	750	25		
DIBENZOFURAN	660	450	38	50.00	
FLUORANTHENE	16000	11000	37	50.00	
FLUORENE	880	740	17	50.00	
INDENO(1,2,3-CD)PYRENE	3700	2600	35	50.00	
NAPHTHALENE	540	440	20	50.00	
PHENANTHRENE	8700	6400	30	50.00	
PYRENE	13000	9000	36	50.00	

Analyte	Concentration (ug/Kg) LL2SS-517M-0001-SO	Concentration (ug/Kg) LL2SS-516M-0001-SO	Sample RPD	eQAPP RPD	Flag

Field Duplicate RPD Report

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 8270C
Matrix: SO

2-METHYLNAPHTHALENE	74	45	49	50.00	
ACENAPHTHENE	150	110	31	50.00	
ACENAPHTHYLENE	320	340	6	50.00	
ANTHRACENE	570	420	30	50.00	
BENZO(A)ANTHRACENE	1600	1500	6	50.00	
BENZO(A)PYRENE	1700	1600	6	50.00	
BENZO(B)FLUORANTHENE	2000	1900	5	50.00	
BENZO(G,H,I)PERYLENE	1000	870	14	50.00	
BENZO(K)FLUORANTHENE	950	980	3	50.00	
BIS(2-ETHYLHEXYL) PHTHALATE	380	200 U	200	50.00	
CARBAZOLE	170	140	19	50.00	No Qualifiers Applied
CHRYSENE	1500	1400	7	50.00	
DIBENZO(A,H)ANTHRACENE	210	240	13		
DIBENZOFURAN	160	100	46	50.00	
FLUORANTHENE	3600	2900	22	50.00	
FLUORENE	300	180	50	50.00	
INDENO(1,2,3-CD)PYRENE	1000	890	12	50.00	
ISOPHORONE	53	75	34	50.00	
NAPHTHALENE	78	58	29	50.00	
PHENANTHRENE	2100	1400	40	50.00	
PYRENE	2700	2400	12	50.00	

Analyte	Concentration (ug/Kg) LL3SD-417M-0001-SD	LL3SD-416M-0001-SD	Sample RPD	eQAPP RPD	Flag
2-METHYLNAPHTHALENE	88	140 U	200	50.00	
ACENAPHTHENE	130	360	94	50.00	
ACENAPHTHYLENE	550	1600	98	50.00	
ANTHRACENE	1000	3100	102	50.00	
BENZO(A)ANTHRACENE	2900	8600	99	50.00	
BENZO(A)PYRENE	2500	6800	92	50.00	
BENZO(B)FLUORANTHENE	3100	9100	98	50.00	
BENZO(G,H,I)PERYLENE	1500	4200	95	50.00	
BENZO(K)FLUORANTHENE	1900	5000	90	50.00	
CARBAZOLE	400	1100	93	50.00	No Qualifiers Applied
CHRYSENE	2500	8200	107	50.00	
DIBENZO(A,H)ANTHRACENE	590	1200	68		
DIBENZOFURAN	200	550	93	50.00	
FLUORANTHENE	5500	19000	110	50.00	
FLUORENE	320	1000	103	50.00	
INDENO(1,2,3-CD)PYRENE	1500	4100	93	50.00	
NAPHTHALENE	74	170	79	50.00	
PHENANTHRENE	2800	9200	107	50.00	
PYRENE	4000	13000	106	50.00	

Method: 8330
Matrix: SO

Analyte	Concentration (mg/kg) LL1SB-645M-0102-SO	LL1SB-644M-0102-SO	Sample RPD	eQAPP RPD	Flag
1,3,5-TRINITROBENZENE	0.25 U	0.037	200	50.00	
2,4,6-TRINITROTOLUENE	0.19	0.49	88	50.00	
4-AMINO-2,6-DINITROTOLUENE	0.13	0.17	27	50.00	No Qualifiers Applied
HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	0.34	0.28	19	50.00	
OCTAHYDRO-TETRANITRO-1,3,5,7-TETRAZO	0.15	0.12	22	50.00	

Analyte	Concentration (mg/kg) L12SS-301M-0001-SO	L12SS-300M-0001-SO	Sample RPD	eQAPP RPD	Flag
METHYL-2,4,6-TRINITROPHENYLNITRAMINE	0.25	0.17	38	50.00	No Qualifiers Applied
NITROBENZENE	0.20	0.24 U	200	50.00	

Project Name and Number: W912QR-10-P-0037 - LLS1-4,12

Field Duplicate RPD Report

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 8330
Matrix: SO

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	LL2SS-517M-0001-SO	LL2SS-516M-0001-SO			
2,4,6-TRINITROTOLUENE	0.048	0.25 U	200	50.00	No Qualifiers Applied

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	LL3SD-417M-0001-SD	LL3SD-416M-0001-SD			
1,3,5-TRINITROBENZENE	0.24 U	0.031	200	50.00	No Qualifiers Applied
2,4,6-TRINITROTOLUENE	0.27	0.32	17	50.00	
METHYL-2,4,6-TRINITROPHENYLNITRAMINE	0.24 U	0.12	200	50.00	
NITROBENZENE	0.24 U	0.11	200	50.00	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 6020
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS 240-10075/2-A ^10 (TOT) (EQUIP RINSATE 2-1-11)	IRON	-	-	80.00-120.00	-	IRON	J+ (all detects) R (all non-detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS 240-7492/4-A (EQUIP RINSATE 2-1-11)	BENZO(A)PYRENE	51	-	55.00-110.00	-	BENZO(A)PYRENE	J-(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS 240-8237/24-A	1,2,4-TRICHLOROBENZENE	38	-	45.00-110.00	-	1,2,4-TRICHLOROBENZENE	J-(all detects) UJ(all non-detects)
(L12SS-300M-0001-SO	1,2-DICHLOROBENZENE	42	-	45.00-100.00	-	1,2-DICHLOROBENZENE	
L12SS-301M-0001-SO	1,3-DICHLOROBENZENE	38	-	40.00-100.00	-	1,3-DICHLOROBENZENE	
LL1SB-643M-0101-SO	2,4,5-TRICHLOROPHENOL	49	-	50.00-110.00	-	2,4,5-TRICHLOROPHENOL	
LL1SB-643M-0102-SO	2,4,6-TRICHLOROPHENOL	36	-	45.00-110.00	-	2,4,6-TRICHLOROPHENOL	
LL1SB-643M-0103-SO	HEXACHLOROBUTADIENE	37	-	40.00-115.00	-	HEXACHLOROBUTADIENE	
LL1SB-644M-0101-SO	HEXACHLOROCYCLOPENTADI	17	-	45.00-110.00	-	HEXACHLOROCYCLOPENTAD	
LL1SB-644M-0102-SO							
LL1SB-644M-0103-SO							
LL1SB-645M-0101-SO							
LL1SB-645M-0102-SO							
LL1SB-645M-0103-SO							
LL2SB-512M-0101-SO							
LL2SB-512M-0102-SO							
LL2SB-512M-0103-SO							
LL2SS-517M-0001-SO							
LL3SD-416M-0001-SD							
LL3SD-417M-0001-SD							
LL3SS-419M-0001-SO							
LL3SS-420M-0001-SO							
LL3SS-421M-0001-SO)							

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS 240-8260/14-A (L12SS-300M-0001-SO L12SS-301M-0001-SO LL1SB-644M-0101-SO LL1SB-644M-0102-SO LL1SB-644M-0103-SO LL1SB-645M-0101-SO LL1SB-645M-0102-SO LL1SB-645M-0103-SO LL2SS-517M-0001-SO LL3SD-416M-0001-SD LL3SD-417M-0001-SD)	ALPHA-BHC GAMMA-BHC	127 132	- -	60.00-125.00 60.00-125.00	- -	ALPHA-BHC GAMMA-BHC	J+(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS 240-8611/2-A (TOT) (L12SS-300M-0001-SO L12SS-301M-0001-SO LL1SB-644M-0101-SO LL1SB-644M-0102-SO LL1SB-644M-0103-SO LL1SB-645M-0102-SO LL1SB-645M-0103-SO LL2SS-516M-0001-SO LL2SS-517M-0001-SO LL3SD-416M-0001-SD LL3SD-417M-0001-SD)	COPPER	-	-	80.00-120.00	-	COPPER	J-(all detects) R(all non-detects)
LCS 240-8922/2-A ^10 (TOT) (LL1SB-645M-0101-SO)	COPPER	-	-	80.00-120.00	-	COPPER	J-(all detects) R(all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: **6020**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB 240-10075/1-A	8/29/2011 11:33:00 AM	ZINC	46.4 ug/L	EQUIP RINSATE 2-1-11

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB 240-14048/1-A	9/8/2011 10:41:00 AM	ALUMINUM	2.58 mg/Kg	LL2SS-516M-0001-SO
MB 240-8611/1-A	8/25/2011 10:08:00 PM	NICKEL	0.103 mg/Kg	L12SS-300M-0001-SO L12SS-301M-0001-SO LL1SB-644M-0101-SO LL1SB-644M-0102-SO LL1SB-644M-0103-SO LL1SB-645M-0102-SO LL1SB-645M-0103-SO LL2SS-516M-0001-SO LL2SS-517M-0001-SO LL3SD-416M-0001-SD LL3SD-417M-0001-SD
MB 240-8922/1-A	8/29/2011 5:04:00 PM	BARIUM ZINC	0.437 mg/Kg 2.30 mg/Kg	LL1SB-645M-0101-SO

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB 240-8123/1-A	7/12/2011 6:25:00 PM	METHYLENE CHLORIDE	98.0 ug/Kg	LL1SB-644V-0101-SO LL1SB-644V-0102-SO LL1SB-644V-0103-SO LL1SB-645V-0101-SO LL1SB-645V-0102-SO LL1SB-645V-0103-SO
MB 240-8134/1-A	7/12/2011 9:16:00 PM	METHYLENE CHLORIDE	90.5 ug/Kg	L12SS-300V-0001-SO L12SS-301V-0001-SO LL2SS-516V-0001-SO LL2SS-517V-0001-SO LL3SD-416V-0001-SD LL3SD-417V-0001-SD

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
L12SS-301V-0001-SO(RES)	METHYLENE CHLORIDE	73 ug/Kg	180U ug/Kg
LL1SB-644V-0101-SO(RES/WET)	METHYLENE CHLORIDE	68 ug/Kg	160U ug/Kg
LL1SB-644V-0102-SO(RES/WET)	METHYLENE CHLORIDE	160 ug/Kg	320U ug/Kg
LL1SB-644V-0103-SO(RES/WET)	METHYLENE CHLORIDE	140 ug/Kg	380U ug/Kg
LL1SB-645V-0101-SO(RES/WET)	METHYLENE CHLORIDE	74 ug/Kg	150U ug/Kg
LL1SB-645V-0102-SO(RES/WET)	METHYLENE CHLORIDE	100 ug/Kg	270U ug/Kg
LL1SB-645V-0103-SO(RES/WET)	METHYLENE CHLORIDE	130 ug/Kg	310U ug/Kg
LL2SS-516V-0001-SO(RES)	METHYLENE CHLORIDE	200 ug/Kg	230U ug/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
LL2SS-517V-0001-SO(RES)	METHYLENE CHLORIDE	130 ug/Kg	210U ug/Kg
LL3SD-416V-0001-SD(RES)	METHYLENE CHLORIDE	150 ug/Kg	230U ug/Kg
LL3SD-417V-0001-SD(RES)	METHYLENE CHLORIDE	130 ug/Kg	210U ug/Kg

Method: **8270C**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB 240-7492/3-A	8/5/2011 12:21:00 PM	BIS(2-ETHYLHEXYL) PHTHALATE	2.50 ug/L	EQUIP RINSATE 2-1-11

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EQUIP RINSATE 2-1-11(RES)	BIS(2-ETHYLHEXYL) PHTHALATE	2.2 ug/L	2.2U ug/L

Method: **8270C**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB 240-8437/13-A	7/23/2011 11:22:00 AM	BIS(2-ETHYLHEXYL) PHTHALATE	28.3 ug/Kg	LL2SS-516M-0001-SO LL2SS-519M-0001-SO LL3SB-422M-0001-SO

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.

Temperature Outliers

Lab Reporting Batch ID: 240-1728-1 **Laboratory: TA SAC**

EDD Filename: 240-1728-1 **eQAPP Name: DoD QSM v4 Master_27May09**

No Data Review Qualifiers Applied.