0089688

SAF-RC-107
100-H Remaining Sites Burial Grounds – Soil Full Protocol
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 7/27/10
NITIAL/DATE

COMMENTS:

SDG K2099 SAF-RC-107

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Waste Site: 1607-H-3 Drain Field Excavation Area and Trip blanks

RECEIVED
AUG 0 3 2010
EDMC

July 26, 2010

Joan Kessner
WCH
2620 Fermi Avenue
Richland, WA 99354

Subject: Analytical Data Package

Dear Ms. Kessner:

Enclosed are the hard copy analytical reports for the batch number/fraction indicated (marked X) in the following table:

LvLI Batch #	1006082
SDG #	K2099
SAF #	RC-107
Date Received	6/17/10
Matrix	Soil
Semivolatiles	X
Metals	X
Inorganics	X
Pesticides	X
VOA	X
PCB	X
PAH	X
DRO	

The electronic data deliverable (EDD) will be e-mailed shortly. If you have any questions, please don't hesitate to contact us at (610) 280-3012.

Sincerely,

Orlette S. Johnson
Lionville Laboratory Incorporated

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-107 Project Number: K2099 Project Manager: Joan Kessner	**Reported:** 07/08/2010 16:02

Analytical Report for Volatile Organic Compounds by SW846 8260B

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
J1B595	1006082-01	Soil	06/15/2010 11:05	06/17/2010 10:20
J1B596	1006082-02	Soil	06/15/2010 11:25	06/17/2010 10:20
J1B597	1006082-03	Soil	06/15/2010 11:45	06/17/2010 10:20
J1B598	1006082-04	Soil	06/15/2010 11:40	06/17/2010 10:20
J1B599	1006082-05	Soil	06/15/2010 12:45	06/17/2010 10:20
J1B5B0	1006082-06	Soil	06/15/2010 13:05	06/17/2010 10:20
J1B5B1	1006082-07	Soil	06/15/2010 13:25	06/17/2010 10:20
J1B5B2	1006082-08	Soil	06/15/2010 13:20	06/17/2010 10:20
J1B5B3	1006082-09	Soil	06/15/2010 13:30	06/17/2010 10:20
J1B5B4	1006082-10	Soil	06/15/2010 13:40	06/17/2010 10:20
J1B5B5	1006082-11	Soil	06/15/2010 13:55	06/17/2010 10:20
J1B5B6	1006082-12	Soil	06/15/2010 14:00	06/17/2010 10:20
J1B5B7	1006082-13	Soil	06/15/2010 11:45	06/17/2010 10:20
J1B5D3	1006082-14	Soil	06/15/2010 08:45	06/17/2010 10:20

LIONVILLE LABORATORY
A division of Eberline Analytical Corporation

264 Welsh Pool Road
Exton, Pennsylvania 19341
Phone (610) 280-3000
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Case Narrative

Client: WC-HANFORD RC-107 K2099
LVL #: 1006082

W.O. #: 60049-001-001-0001-00
Date Received: 06-17-2010

GC/MS VOLATILE

Fourteen (14) soil samples were collected on 06-15-2010.

The samples and associated QC samples were prepared and analyzed 06-21,23,29-2010 according to criteria set forth in Lionville Laboratory SOPs. The preparation procedure was based on SW846 Method 5030A, Rev. 1, July 1992 and the analysis procedure was based on SW846 Method 8260B for TCL Volatile target compounds.

Lionville Laboratory (LvL) is NELAP accredited by the State of Pennsylvania. For a complete listing of accrediting authorities and the corresponding analytes/methods, please contact your Project Manager. LvL certifies that all test results meet the requirements of NELAC with any exception noted in the following statements:

1. The results presented in this report are derived from samples that met LvL's sample acceptance policy.

2. Samples were analyzed within hold time.

3. Non-target compounds were detected in these samples.

4. Two (2) of sixty-nine (69) surrogate recoveries were outside acceptance criteria. Sample J1B5B4 was outside criteria, reanalyzed and reported (J1B5B4RE1). The associated matrix spike and matrix spike duplicate fulfilled the reanalysis requirement for sample J1B5B5.

5. Two (2) of seventy (70) matrix spike recoveries were outside acceptance criteria. A copy of the Sample Discrepancy Report (SDR# 10VT062) has been enclosed.

6. One (1) of seventy (70) blank spike recoveries was outside acceptance criteria. A copy of the Sample Discrepancy Report (SDR# 10VT062) has been enclosed.

7. The method blank was below the reporting limit for all target analytes.

8. Samples are reported on a dry weight basis.

9. All internal standard area and retention time criteria were met.

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 39 pages.

10. Manual integrations are performed according to SOP QA-125 to produce quality data with utmost integrity. All manual integrations are required to be technically valid and properly documented. Appropriate technical flags are defined in the Glossary ("Technical Flags For Manual Integration").

11. "I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard-copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature."

Iain Daniels
LvL Laboratory Manager

7/9/10
Date

Lionville Laboratory Sample Discrepancy Report (SDR)

SDR #: 10JT062

Initiator: Robert Carden
Date: 7/8/10
Client: WC Hanford BC107 K2099

Batch: 1006082
Samples: BS/MS/MSD
Method: SW846/MCAWW/CLP/

Parameter: VOA
Matrix: Soil
Prep Batch: L007031 L007039

1. Reason for SDR

a. COC Discrepancy __ Tech Profile Error __ Client Request __ Sampler Error on C-O-C __ Transcription Error __ Wrong Test Code __ Other _____

b. General Discrepancy

__ Missing Sample/Extract __ Container Broken __ Wrong Sample Pulled __ Label ID's Illegible
__ Hold Time Exceeded __ Insufficient Sample __ Preservation Wrong __ Received Past Hold
__ Improper Bottle Type __ Not Amenable to Analysis

Note: Verified by [Log-In] or [Prep Group] (circle)...signature/date: _____

c. Problem (Include all relevant specific results; attach data if necessary)

Acetone spike recovery above QC acceptance criteria (10-20%) in MS/MSD/BS

2. Known or Probable Causes(s) Heated purge used for analysis tends to elevate ketone levels

3. Discussion and Proposed Action

__ Re-log
__ Entire Batch
__ Following Samples: _____
__ Re-leach
__ Re-extract
__ Re-digest
__ Revise EDD
__ Change Test Code to _____
__ Place On/Take Off Hold (circle)

Other Description: Matrix Samples all nondetect no impact on the data

4. Project Manager Instructions...signature/date: 7/8/10

✓ Concur with Proposed Action
__ Disagree with Proposed Action; See Instruction
__ Include in Case Narrative
__ Client Contacted:
Date/Person _____
__ Add
__ Cancel

5. Final Action...signature/date: 7/8/10

Other Explanation:

__ Verified re-[log][leach][extract][digest][analysis] (circle)
✓ Included in Case Narrative
__ Hard Copy COC Revised
__ Electronic COC Revised
__ EDD Corrections Completed

When Final Action has been recorded, forward original to QA for diposition.

Route
__ Lab Manager: Daniels
(1) Project Mgr (circle): Johnson / Stone
__ Sample Prep (circle): Ford
__ Log-in: King

Route
__ Metals: Welsh / _____
__ Inorganic: Perrone / _____
__ GC/LC: Carey / _____
(2) MS VOA: Rubino / _____
__ MS BNA: Carden / _____
__ Other: _____

QA-139-A-0208

GLOSSARY

DATA QUALIFIERS

U = Indicates that the compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.

J = Indicates an estimated value. This flag is used under the following circumstances: 1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; or 2) when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. For example, if the limit of detection is 10 ug/L and a concetration of 3 ug/L is calculated, it is reported as 3J.

B = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.

E = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.

D = Identifies all compounds identified in an analysis at a secondary dilution factor.

I = Interference.

NQ = Result qualitatively confirmed but not able to quantify.

A = Indicates that a TIC is a suspected aldol-condensation product.

N = Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

X = This flag is used for a TIC compound which is quantified relative to a response factor generated from a daily calibration standard (rather than quantified relative to the closest internal standard).

Y = Additional qualifiers used as required are explained in the case narrative.

GLOSSARY

ABBREVIATIONS

BS	=	Indicates blank spike in which reagent grade water is spiked with the CLP matrix spike solutions and carried through all the steps in the method. Spike recoveries are reported.
BSD	=	Indicates blank spike duplicate.
MS	=	Indicates matrix spike.
MSD	=	Indicates matrix spike duplicate.
DL	=	Suffix added to sample number to indicate that results are from a diluted analysis.
NA	=	Not Applicable.
DF	=	Dilution Factor.
NR	=	Not Required.
SP, Z	=	Indicates Spiked Compound.

TECHNICAL FLAGS FOR MANUAL INTEGRATION

Manual quan modifications are performed routinely to improve the data quality for a variety of technical reasons. Documentation of these modifications should be clear and concise. The following "flags" are used to indicate the technical reasons for quan modifications:

MP	-	Missed Peak: Manually added peak not found by automatic quan program.
PA	-	Peak Assignment: quan report was changed to reflect correct peak assignment.
RI	-	Routine Integration: routine integrations are performed for some analytes that are consistently integrated improperly by the automatic integration programs. Examples are the dichlorobenzene isomers on the VOA packed column and benzo(b)fluoranthene/benzo(k)fluoranthene which are poorly resolved on the BNA column.
SP	-	Split Peak: the automatic integration improperly split the peak; a manual integration was performed to get the correct area.
CB	-	Coelution/Background: peak was manually integrated to eliminate contribution from coeluting compounds, background signal., or other interference.
PI	-	Proper Integration: a peak with poor or inconsistent integration (e.g., excessive tail) was properly integrated manually.

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 16:02

J1B595

1006082-01 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Volatile Organic Compounds by SW846 8260B								
1,1,1-Trichloroethane	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2,2-Tetrachloroethane	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2-Trichloroethane	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethane	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethene	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethane	6.10 U	6.10	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethene (total)	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloropropane	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Butanone	12.2 U	12.2	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Hexanone	12.2 U	12.2	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
4-Methyl-2-pentanone	12.2 U	12.2	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Acetone	12.2 U	12.2	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Benzene	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromodichloromethane	6.10 U	6.10	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromoform	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromomethane	10.2 U	10.2	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Disulfide	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Tetrachloride	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chlorobenzene	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroethane	10.2 U	10.2	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroform	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloromethane	10.2 U	10.2	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,2-Dichloroethene	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,3-Dichloropropene	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Dibromochloromethane	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Ethylbenzene	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Methylene Chloride	6.10 U	6.10	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Styrene	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Tetrachloroethene	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,2-Dichloroethene	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Toluene	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,3-Dichloropropene	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Trichloroethene	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Vinyl chloride	10.2 U	10.2	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Xylenes, total	5.08 U	5.08	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Surrogate: 1,2-Dichloroethane-d4	*91 %*	*63-151*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: Toluene-d8	*92 %*	*68-140*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: 4-Bromofluorobenzene	*116 %*	*66-122*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*

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WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-107 Project Number: K2099 Project Manager: Joan Kessner	**Reported:** 07/08/2010 16:02

J1B596

1006082-02 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Volatile Organic Compounds by SW846 8260B								
1,1,1-Trichloroethane	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2,2-Tetrachloroethane	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2-Trichloroethane	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethane	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethene	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethane	5.41 U	5.41	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethene (total)	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloropropane	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Butanone	10.8 U	10.8	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Hexanone	10.8 U	10.8	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
4-Methyl-2-pentanone	10.8 U	10.8	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Acetone	10.8 U	10.8	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Benzene	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromodichloromethane	5.41 U	5.41	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromoform	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromomethane	9.02 U	9.02	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Disulfide	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Tetrachloride	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chlorobenzene	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroethane	9.02 U	9.02	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroform	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloromethane	9.02 U	9.02	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,2-Dichloroethene	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,3-Dichloropropene	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Dibromochloromethane	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Ethylbenzene	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Methylene Chloride	5.41 U	5.41	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Styrene	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Tetrachloroethene	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,2-Dichloroethene	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Toluene	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,3-Dichloropropene	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Trichloroethene	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Vinyl chloride	9.02 U	9.02	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Xylenes, total	4.51 U	4.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Surrogate: 1,2-Dichloroethane-d4	*96 %*	*63-151*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: Toluene-d8	*88 %*	*68-140*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: 4-Bromofluorobenzene	*115 %*	*66-122*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 16:02

J1B597

1006082-03 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Volatile Organic Compounds by SW846 8260B								
1,1,1-Trichloroethane	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2,2-Tetrachloroethane	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2-Trichloroethane	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethane	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethene	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethane	4.97 U	4.97	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethene (total)	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloropropane	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Butanone	9.95 U	9.95	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Hexanone	9.95 U	9.95	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
4-Methyl-2-pentanone	9.95 U	9.95	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Acetone	9.95 U	9.95	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Benzene	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromodichloromethane	4.97 U	4.97	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromoform	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromomethane	8.29 U	8.29	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Disulfide	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Tetrachloride	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chlorobenzene	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroethane	8.29 U	8.29	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroform	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloromethane	8.29 U	8.29	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,2-Dichloroethene	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,3-Dichloropropene	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Dibromochloromethane	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Ethylbenzene	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Methylene Chloride	4.97 U	4.97	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Styrene	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Tetrachloroethene	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,2-Dichloroethene	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Toluene	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,3-Dichloropropene	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Trichloroethene	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Vinyl chloride	8.29 U	8.29	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Xylenes, total	4.14 U	4.14	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Surrogate: 1,2-Dichloroethane-d4	*94 %*	*63-151*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: Toluene-d8	*88 %*	*68-140*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: 4-Bromofluorobenzene	*117 %*	*66-122*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 16:02

J1B598

1006082-04 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Volatile Organic Compounds by SW846 8260B								
1,1,1-Trichloroethane	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2,2-Tetrachloroethane	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2-Trichloroethane	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethane	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethene	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethane	5.51 U	5.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethene (total)	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloropropane	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Butanone	11.0 U	11.0	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Hexanone	11.0 U	11.0	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
4-Methyl-2-pentanone	11.0 U	11.0	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Acetone	11.0 U	11.0	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Benzene	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromodichloromethane	5.51 U	5.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromoform	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromomethane	9.19 U	9.19	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Disulfide	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Tetrachloride	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chlorobenzene	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroethane	9.19 U	9.19	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroform	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloromethane	9.19 U	9.19	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,2-Dichloroethene	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,3-Dichloropropene	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Dibromochloromethane	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Ethylbenzene	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Methylene Chloride	5.51 U	5.51	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Styrene	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Tetrachloroethene	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,2-Dichloroethene	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Toluene	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,3-Dichloropropene	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Trichloroethene	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Vinyl chloride	9.19 U	9.19	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Xylenes, total	4.60 U	4.60	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Surrogate: 1,2-Dichloroethane-d4	*88 %*	*63-151*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: Toluene-d8	*92 %*	*68-140*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: 4-Bromofluorobenzene	*119 %*	*66-122*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 16:02

J1B599

1006082-05 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Volatile Organic Compounds by SW846 8260B								
1,1,1-Trichloroethane	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2,2-Tetrachloroethane	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2-Trichloroethane	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethane	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethene	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethane	5.86 U	5.86	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethene (total)	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloropropane	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Butanone	11.7 U	11.7	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Hexanone	11.7 U	11.7	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
4-Methyl-2-pentanone	11.7 U	11.7	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Acetone	11.7 U	11.7	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Benzene	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromodichloromethane	5.86 U	5.86	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromoform	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromomethane	9.77 U	9.77	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Disulfide	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Tetrachloride	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chlorobenzene	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroethane	9.77 U	9.77	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroform	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloromethane	9.77 U	9.77	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,2-Dichloroethene	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,3-Dichloropropene	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Dibromochloromethane	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Ethylbenzene	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Methylene Chloride	5.86 U	5.86	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Styrene	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Tetrachloroethene	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,2-Dichloroethene	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Toluene	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,3-Dichloropropene	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Trichloroethene	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Vinyl chloride	9.77 U	9.77	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Xylenes, total	4.88 U	4.88	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Surrogate: 1,2-Dichloroethane-d4	*92 %*	*63-151*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: Toluene-d8	*89 %*	*68-140*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: 4-Bromofluorobenzene	*115 %*	*66-122*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 16:02

J1B5B0

1006082-06 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Volatile Organic Compounds by SW846 8260B								
1,1,1-Trichloroethane	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2,2-Tetrachloroethane	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2-Trichloroethane	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethane	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethene	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethane	6.28 U	6.28	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethene (total)	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloropropane	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Butanone	12.6 U	12.6	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Hexanone	12.6 U	12.6	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
4-Methyl-2-pentanone	12.6 U	12.6	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Acetone	12.6 U	12.6	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Benzene	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromodichloromethane	6.28 U	6.28	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromoform	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromomethane	10.5 U	10.5	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Disulfide	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Tetrachloride	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chlorobenzene	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroethane	10.5 U	10.5	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroform	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloromethane	10.5 U	10.5	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,2-Dichloroethene	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,3-Dichloropropene	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Dibromochloromethane	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Ethylbenzene	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Methylene Chloride	6.28 U	6.28	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Styrene	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Tetrachloroethene	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,2-Dichloroethene	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Toluene	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,3-Dichloropropene	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Trichloroethene	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Vinyl chloride	10.5 U	10.5	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Xylenes, total	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Surrogate: 1,2-Dichloroethane-d4	*92 %*	*63-151*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: Toluene-d8	*92 %*	*68-140*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: 4-Bromofluorobenzene	*116 %*	*66-122*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 16:02

J1B5B1

1006082-07 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Volatile Organic Compounds by SW846 8260B								
1,1,1-Trichloroethane	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2,2-Tetrachloroethane	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2-Trichloroethane	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethane	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethene	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethane	5.25 U	5.25	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethene (total)	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloropropane	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Butanone	10.5 U	10.5	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Hexanone	10.5 U	10.5	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
4-Methyl-2-pentanone	10.5 U	10.5	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Acetone	10.5 U	10.5	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Benzene	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromodichloromethane	5.25 U	5.25	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromoform	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromomethane	8.74 U	8.74	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Disulfide	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Tetrachloride	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chlorobenzene	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroethane	8.74 U	8.74	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroform	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloromethane	8.74 U	8.74	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,2-Dichloroethene	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,3-Dichloropropene	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Dibromochloromethane	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Ethylbenzene	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Methylene Chloride	5.25 U	5.25	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Styrene	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Tetrachloroethene	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,2-Dichloroethene	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Toluene	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,3-Dichloropropene	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Trichloroethene	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Vinyl chloride	8.74 U	8.74	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Xylenes, total	4.37 U	4.37	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Surrogate: 1,2-Dichloroethane-d4	*93 %*	*63-151*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: Toluene-d8	*88 %*	*68-140*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: 4-Bromofluorobenzene	*116 %*	*66-122*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 16:02

J1B5B2

1006082-08 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Volatile Organic Compounds by SW846 8260B								
1,1,1-Trichloroethane	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2,2-Tetrachloroethane	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2-Trichloroethane	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethane	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethene	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethane	5.32 U	5.32	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethene (total)	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloropropane	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Butanone	10.6 U	10.6	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Hexanone	10.6 U	10.6	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
4-Methyl-2-pentanone	10.6 U	10.6	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Acetone	10.6 U	10.6	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Benzene	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromodichloromethane	5.32 U	5.32	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromoform	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromomethane	8.87 U	8.87	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Disulfide	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Tetrachloride	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chlorobenzene	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroethane	8.87 U	8.87	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroform	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloromethane	8.87 U	8.87	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,2-Dichloroethene	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,3-Dichloropropene	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Dibromochloromethane	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Ethylbenzene	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Methylene Chloride	5.32 U	5.32	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Styrene	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Tetrachloroethene	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,2-Dichloroethene	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Toluene	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,3-Dichloropropene	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Trichloroethene	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Vinyl chloride	8.87 U	8.87	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Xylenes, total	4.43 U	4.43	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Surrogate: 1,2-Dichloroethane-d4	*94 %*	*63-151*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: Toluene-d8	*92 %*	*68-140*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: 4-Bromofluorobenzene	*121 %*	*66-122*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*

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2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 16:02

J1B5B3

1006082-09 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Volatile Organic Compounds by SW846 8260B								
1,1,1-Trichloroethane	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2,2-Tetrachloroethane	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2-Trichloroethane	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethane	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethene	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethane	5.11 U	5.11	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethene (total)	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloropropane	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Butanone	10.2 U	10.2	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Hexanone	10.2 U	10.2	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
4-Methyl-2-pentanone	10.2 U	10.2	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Acetone	10.2 U	10.2	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Benzene	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromodichloromethane	5.11 U	5.11	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromoform	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromomethane	8.52 U	8.52	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Disulfide	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Tetrachloride	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chlorobenzene	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroethane	8.52 U	8.52	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroform	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloromethane	8.52 U	8.52	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,2-Dichloroethene	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,3-Dichloropropene	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Dibromochloromethane	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Ethylbenzene	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Methylene Chloride	5.11 U	5.11	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Styrene	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Tetrachloroethene	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,2-Dichloroethene	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Toluene	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,3-Dichloropropene	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Trichloroethene	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Vinyl chloride	8.52 U	8.52	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Xylenes, total	4.26 U	4.26	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Surrogate: 1,2-Dichloroethane-d4	*93 %*	*63-151*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: Toluene-d8	*92 %*	*68-140*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: 4-Bromofluorobenzene	*118 %*	*66-122*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*

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2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 16:02

J1B5B4

1006082-10 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Volatile Organic Compounds by SW846 8260B								
1,1,1-Trichloroethane	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2,2-Tetrachloroethane	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2-Trichloroethane	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethane	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethene	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethane	5.55 U	5.55	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethene (total)	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloropropane	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Butanone	11.1 U	11.1	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Hexanone	11.1 U	11.1	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
4-Methyl-2-pentanone	11.1 U	11.1	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Acetone	11.1 U	11.1	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Benzene	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromodichloromethane	5.55 U	5.55	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromoform	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromomethane	9.25 U	9.25	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Disulfide	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Tetrachloride	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chlorobenzene	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroethane	9.25 U	9.25	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroform	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloromethane	9.25 U	9.25	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,2-Dichloroethene	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,3-Dichloropropene	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Dibromochloromethane	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Ethylbenzene	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Methylene Chloride	5.55 U	5.55	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Styrene	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Tetrachloroethene	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,2-Dichloroethene	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Toluene	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,3-Dichloropropene	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Trichloroethene	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Vinyl chloride	9.25 U	9.25	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Xylenes, total	4.63 U	4.63	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Surrogate: 1,2-Dichloroethane-d4	*101 %*	*63-151*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: Toluene-d8	*94 %*	*68-140*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: 4-Bromofluorobenzene	*123 % **	*66-122*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*

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Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 16:02

J1B5B4

1006082-10RE1 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Volatile Organic Compounds by SW846 8260B								
1,1,1-Trichloroethane	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
1,1,2,2-Tetrachloroethane	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
1,1,2-Trichloroethane	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
1,1-Dichloroethane	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
1,1-Dichloroethene	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
1,2-Dichloroethane	5.76 U	5.76	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
1,2-Dichloroethene (total)	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
1,2-Dichloropropane	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
2-Butanone	11.5 U	11.5	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
2-Hexanone	11.5 U	11.5	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
4-Methyl-2-pentanone	11.5 U	11.5	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Acetone	11.5 U	11.5	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Benzene	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Bromodichloromethane	5.76 U	5.76	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Bromoform	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Bromomethane	9.60 U	9.60	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Carbon Disulfide	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Carbon Tetrachloride	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Chlorobenzene	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Chloroethane	9.60 U	9.60	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Chloroform	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Chloromethane	9.60 U	9.60	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
cis-1,2-Dichloroethene	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
cis-1,3-Dichloropropene	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Dibromochloromethane	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Ethylbenzene	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Methylene Chloride	5.76 U	5.76	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Styrene	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Tetrachloroethene	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
trans-1,2-Dichloroethene	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Toluene	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
trans-1,3-Dichloropropene	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Trichloroethene	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Vinyl chloride	9.60 U	9.60	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Xylenes, total	4.80 U	4.80	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Surrogate: 1,2-Dichloroethane-d4	*93 %*	*63-151*			*L007031*	*06/23/2010*	*06/23/2010*	*8260B*
Surrogate: Toluene-d8	*92 %*	*68-140*			*L007031*	*06/23/2010*	*06/23/2010*	*8260B*
Surrogate: 4-Bromofluorobenzene	*126 % **	*66-122*			*L007031*	*06/23/2010*	*06/23/2010*	*8260B*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 16:02

J1B5B5

1006082-11 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Volatile Organic Compounds by SW846 8260B								
1,1,1-Trichloroethane	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2,2-Tetrachloroethane	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2-Trichloroethane	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethane	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethene	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethane	5.77 U	5.77	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethene (total)	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloropropane	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Butanone	11.5 U	11.5	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Hexanone	11.5 U	11.5	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
4-Methyl-2-pentanone	11.5 U	11.5	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Acetone	11.5 U	11.5	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Benzene	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromodichloromethane	5.77 U	5.77	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromoform	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromomethane	9.61 U	9.61	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Disulfide	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Tetrachloride	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chlorobenzene	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroethane	9.61 U	9.61	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroform	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloromethane	9.61 U	9.61	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,2-Dichloroethene	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,3-Dichloropropene	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Dibromochloromethane	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Ethylbenzene	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Methylene Chloride	5.77 U	5.77	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Styrene	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Tetrachloroethene	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,2-Dichloroethene	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Toluene	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,3-Dichloropropene	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Trichloroethene	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Vinyl chloride	9.61 U	9.61	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Xylenes, total	4.81 U	4.81	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Surrogate: 1,2-Dichloroethane-d4	*99 %*	*63-151*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: Toluene-d8	*94 %*	*68-140*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: 4-Bromofluorobenzene	*124 % **	*66-122*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*

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2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 16:02

J1B5B6

1006082-12 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Volatile Organic Compounds by SW846 8260B								
1,1,1-Trichloroethane	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
1,1,2,2-Tetrachloroethane	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
1,1,2-Trichloroethane	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
1,1-Dichloroethane	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
1,1-Dichloroethene	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
1,2-Dichloroethane	5.20 U	5.20	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
1,2-Dichloroethene (total)	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
1,2-Dichloropropane	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
2-Butanone	10.4 U	10.4	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
2-Hexanone	10.4 U	10.4	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
4-Methyl-2-pentanone	10.4 U	10.4	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Acetone	10.4 U	10.4	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Benzene	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Bromodichloromethane	5.20 U	5.20	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Bromoform	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Bromomethane	8.66 U	8.66	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Carbon Disulfide	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Carbon Tetrachloride	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Chlorobenzene	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Chloroethane	8.66 U	8.66	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Chloroform	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Chloromethane	8.66 U	8.66	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
cis-1,2-Dichloroethene	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
cis-1,3-Dichloropropene	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Dibromochloromethane	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Ethylbenzene	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Methylene Chloride	5.20 U	5.20	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Styrene	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Tetrachloroethene	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
trans-1,2-Dichloroethene	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Toluene	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
trans-1,3-Dichloropropene	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Trichloroethene	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Vinyl chloride	8.66 U	8.66	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Xylenes, total	4.33 U	4.33	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Surrogate: 1,2-Dichloroethane-d4	*96 %*	*63-151*			*L007031*	*06/23/2010*	*06/23/2010*	*8260B*
Surrogate: Toluene-d8	*90 %*	*68-140*			*L007031*	*06/23/2010*	*06/23/2010*	*8260B*
Surrogate: 4-Bromofluorobenzene	*119 %*	*66-122*			*L007031*	*06/23/2010*	*06/23/2010*	*8260B*

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Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 16:02

J1B5B7

1006082-13 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Volatile Organic Compounds by SW846 8260B								
1,1,1-Trichloroethane	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2,2-Tetrachloroethane	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1,2-Trichloroethane	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethane	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,1-Dichloroethene	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethane	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloroethene (total)	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
1,2-Dichloropropane	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Butanone	10.5 U	10.5	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
2-Hexanone	10.5 U	10.5	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
4-Methyl-2-pentanone	10.5 U	10.5	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Acetone	10.5 U	10.5	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Benzene	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromodichloromethane	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromoform	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Bromomethane	8.71 U	8.71	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Disulfide	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Carbon Tetrachloride	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chlorobenzene	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroethane	8.71 U	8.71	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloroform	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Chloromethane	8.71 U	8.71	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,2-Dichloroethene	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
cis-1,3-Dichloropropene	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Dibromochloromethane	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Ethylbenzene	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Methylene Chloride	5.23 U	5.23	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Styrene	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Tetrachloroethene	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,2-Dichloroethene	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Toluene	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
trans-1,3-Dichloropropene	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Trichloroethene	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Vinyl chloride	8.71 U	8.71	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Xylenes, total	4.36 U	4.36	ug/kg dry	1	L007039	06/21/2010	06/21/2010	8260B
Surrogate: 1,2-Dichloroethane-d4	*95 %*	*63-151*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: Toluene-d8	*90 %*	*68-140*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*
Surrogate: 4-Bromofluorobenzene	*116 %*	*66-122*			*L007039*	*06/21/2010*	*06/21/2010*	*8260B*

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Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 16:02

J1B5D3

1006082-14 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Volatile Organic Compounds by SW846 8260B								
1,1,1-Trichloroethane	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
1,1,2,2-Tetrachloroethane	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
1,1,2-Trichloroethane	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
1,1-Dichloroethane	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
1,1-Dichloroethene	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
1,2-Dichloroethane	5.36 U	5.36	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
1,2-Dichloroethene (total)	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
1,2-Dichloropropane	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
2-Butanone	10.7 U	10.7	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
2-Hexanone	10.7 U	10.7	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
4-Methyl-2-pentanone	10.7 U	10.7	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Acetone	10.7 U	10.7	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Benzene	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Bromodichloromethane	5.36 U	5.36	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Bromoform	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Bromomethane	8.93 U	8.93	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Carbon Disulfide	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Carbon Tetrachloride	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Chlorobenzene	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Chloroethane	8.93 U	8.93	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Chloroform	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Chloromethane	8.93 U	8.93	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
cis-1,2-Dichloroethene	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
cis-1,3-Dichloropropene	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Dibromochloromethane	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Ethylbenzene	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Methylene Chloride	5.36 U	5.36	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Styrene	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Tetrachloroethene	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
trans-1,2-Dichloroethene	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Toluene	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
trans-1,3-Dichloropropene	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Trichloroethene	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Vinyl chloride	8.93 U	8.93	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Xylenes, total	4.46 U	4.46	ug/kg dry	1	L007031	06/23/2010	06/23/2010	8260B
Surrogate: 1,2-Dichloroethane-d4	*95 %*	*63-151*			*L007031*	*06/23/2010*	*06/23/2010*	*8260B*
Surrogate: Toluene-d8	*91 %*	*68-140*			*L007031*	*06/23/2010*	*06/23/2010*	*8260B*
Surrogate: 4-Bromofluorobenzene	*117 %*	*66-122*			*L007031*	*06/23/2010*	*06/23/2010*	*8260B*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 16:02

Volatile Organic Compounds by SW846 8260B - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L007031 - SW 5035									
Blank (L007031-BLK1)			Prepared & Analyzed: 06/23/2010						
1,1,1-Trichloroethane	5.00 U	5.00	ug/kg wet						
1,1,2,2-Tetrachloroethane	5.00 U	5.00	ug/kg wet						
1,1,2-Trichloroethane	5.00 U	5.00	ug/kg wet						
1,1-Dichloroethane	5.00 U	5.00	ug/kg wet						
1,1-Dichloroethene	5.00 U	5.00	ug/kg wet						
1,2-Dichloroethane	6.00 U	6.00	ug/kg wet						
1,2-Dichloroethene (total)	5.00 U	5.00	ug/kg wet						
1,2-Dichloropropane	5.00 U	5.00	ug/kg wet						
2-Butanone	12.0 U	12.0	ug/kg wet						
2-Hexanone	12.0 U	12.0	ug/kg wet						
4-Methyl-2-pentanone	12.0 U	12.0	ug/kg wet						
Acetone	12.0 U	12.0	ug/kg wet						
Benzene	5.00 U	5.00	ug/kg wet						
Bromodichloromethane	6.00 U	6.00	ug/kg wet						
Bromoform	5.00 U	5.00	ug/kg wet						
Bromomethane	10.0 U	10.0	ug/kg wet						
Carbon Disulfide	5.00 U	5.00	ug/kg wet						
Carbon Tetrachloride	5.00 U	5.00	ug/kg wet						
Chlorobenzene	5.00 U	5.00	ug/kg wet						
Chloroethane	10.0 U	10.0	ug/kg wet						
Chloroform	5.00 U	5.00	ug/kg wet						
Chloromethane	10.0 U	10.0	ug/kg wet						
cis-1,2-Dichloroethene	5.00 U	5.00	ug/kg wet						
cis-1,3-Dichloropropene	5.00 U	5.00	ug/kg wet						
Dibromochloromethane	5.00 U	5.00	ug/kg wet						
Ethylbenzene	5.00 U	5.00	ug/kg wet						
Methylene Chloride	6.00 U	6.00	ug/kg wet						
Styrene	5.00 U	5.00	ug/kg wet						
Tetrachloroethene	5.00 U	5.00	ug/kg wet						
trans-1,2-Dichloroethene	5.00 U	5.00	ug/kg wet						
Toluene	5.00 U	5.00	ug/kg wet						
trans-1,3-Dichloropropene	5.00 U	5.00	ug/kg wet						
Trichloroethene	5.00 U	5.00	ug/kg wet						
Vinyl chloride	10.0 U	10.0	ug/kg wet						
Xylenes, total	5.00 U	5.00	ug/kg wet						
TIC: Unknown 1	5.90 J		ug/kg wet						

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 16:02

Volatile Organic Compounds by SW846 8260B - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L007031 - SW 5035									
Blank (L007031-BLK1)			Prepared & Analyzed: 06/23/2010						
Surrogate: 1,2-Dichloroethane-d4	*43.9*		*ug/kg wet*	*50.000*		*88*	*63-151*		
Surrogate: Toluene-d8	*44.3*		*ug/kg wet*	*50.000*		*89*	*68-140*		
Surrogate: 4-Bromofluorobenzene	*59.0*		*ug/kg wet*	*50.000*		*118*	*66-122*		
LCS (L007031-BS1)			Prepared & Analyzed: 06/23/2010						
1,1,1-Trichloroethane	46.4	5.00	ug/kg wet	50.000		93	60-140		
1,1,2,2-Tetrachloroethane	39.4	5.00	ug/kg wet	50.000		79	70-130		
1,1,2-Trichloroethane	37.9	5.00	ug/kg wet	50.000		76	70-130		
1,1-Dichloroethane	47.6	5.00	ug/kg wet	50.000		95	60-140		
1,1-Dichloroethene	48.9	5.00	ug/kg wet	50.000		98	60-130		
1,2-Dichloroethane	44.2	6.00	ug/kg wet	50.000		88	60-140		
1,2-Dichloroethene (total)	93.6	5.00	ug/kg wet	100.00		94	60-140		
1,2-Dichloropropane	47.7	5.00	ug/kg wet	50.000		95	70-130		
2-Butanone	81.9	12.0	ug/kg wet	50.000		164	20-200		
2-Hexanone	66.5	12.0	ug/kg wet	50.000		133	20-200		
4-Methyl-2-pentanone	46.5	12.0	ug/kg wet	50.000		93	50-150		
Acetone	107	12.0	ug/kg wet	50.000		215*	20-200		
Benzene	46.0	5.00	ug/kg wet	50.000		92	70-130		
Bromodichloromethane	47.1	6.00	ug/kg wet	50.000		94	60-140		
Bromoform	39.1	5.00	ug/kg wet	50.000		78	60-140		
Bromomethane	44.6	10.0	ug/kg wet	50.000		89	50-180		
Carbon Disulfide	47.0	5.00	ug/kg wet	50.000		94	60-140		
Carbon Tetrachloride	47.4	5.00	ug/kg wet	50.000		95	60-140		
Chlorobenzene	43.1	5.00	ug/kg wet	50.000		86	70-130		
Chloroethane	53.8	10.0	ug/kg wet	50.000		108	50-180		
Chloroform	48.0	5.00	ug/kg wet	50.000		96	60-140		
Chloromethane	40.4	10.0	ug/kg wet	50.000		81	50-180		
cis-1,2-Dichloroethene	46.3	5.00	ug/kg wet	50.000		93	60-140		
cis-1,3-Dichloropropene	42.6	5.00	ug/kg wet	50.000		85	70-130		
Dibromochloromethane	40.4	5.00	ug/kg wet	50.000		81	70-130		
Ethylbenzene	43.5	5.00	ug/kg wet	50.000		87	70-130		
Methylene Chloride	46.9	6.00	ug/kg wet	50.000		94	50-180		
Styrene	44.8	5.00	ug/kg wet	50.000		90	70-130		
Tetrachloroethene	41.9	5.00	ug/kg wet	50.000		84	60-140		
trans-1,2-Dichloroethene	47.3	5.00	ug/kg wet	50.000		95	60-140		
Toluene	43.6	5.00	ug/kg wet	50.000		87	70-130		
trans-1,3-Dichloropropene	42.1	5.00	ug/kg wet	50.000		84	70-130		

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 16:02

Volatile Organic Compounds by SW846 8260B - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L007031 - SW 5035									
LCS (L007031-BS1)			Prepared & Analyzed: 06/23/2010						
Trichloroethene	47.9	5.00	ug/kg wet	50.000		96	70-130		
Vinyl chloride	45.9	10.0	ug/kg wet	50.000		92	50-180		
Xylenes, total	134	5.00	ug/kg wet	150.00		89	70-130		
Surrogate: 1,2-Dichloroethane-d4	*42.6*		*ug/kg wet*	*50.000*		*85*	*63-151*		
Surrogate: Toluene-d8	*41.6*		*ug/kg wet*	*50.000*		*83*	*68-140*		
Surrogate: 4-Bromofluorobenzene	*49.5*		*ug/kg wet*	*50.000*		*99*	*66-122*		
Batch L007039 - SW 5035									
Blank (L007039-BLK2)			Prepared & Analyzed: 06/29/2010						
1,1,1-Trichloroethane	5.00 U	5.00	ug/kg wet						
1,1,2,2-Tetrachloroethane	5.00 U	5.00	ug/kg wet						
1,1,2-Trichloroethane	5.00 U	5.00	ug/kg wet						
1,1-Dichloroethane	5.00 U	5.00	ug/kg wet						
1,1-Dichloroethene	5.00 U	5.00	ug/kg wet						
1,2-Dichloroethane	6.00 U	6.00	ug/kg wet						
1,2-Dichloroethene (total)	5.00 U	5.00	ug/kg wet						
1,2-Dichloropropane	5.00 U	5.00	ug/kg wet						
2-Butanone	12.0 U	12.0	ug/kg wet						
2-Hexanone	12.0 U	12.0	ug/kg wet						
4-Methyl-2-pentanone	12.0 U	12.0	ug/kg wet						
Acetone	12.0 U	12.0	ug/kg wet						
Benzene	5.00 U	5.00	ug/kg wet						
Bromodichloromethane	6.00 U	6.00	ug/kg wet						
Bromoform	5.00 U	5.00	ug/kg wet						
Bromomethane	10.0 U	10.0	ug/kg wet						
Carbon Disulfide	5.00 U	5.00	ug/kg wet						
Carbon Tetrachloride	5.00 U	5.00	ug/kg wet						
Chlorobenzene	5.00 U	5.00	ug/kg wet						
Chloroethane	10.0 U	10.0	ug/kg wet						
Chloroform	5.00 U	5.00	ug/kg wet						
Chloromethane	10.0 U	10.0	ug/kg wet						
cis-1,2-Dichloroethene	5.00 U	5.00	ug/kg wet						
cis-1,3-Dichloropropene	5.00 U	5.00	ug/kg wet						
Dibromochloromethane	5.00 U	5.00	ug/kg wet						
Ethylbenzene	5.00 U	5.00	ug/kg wet						
Methylene Chloride	3.23 J	6.00	ug/kg wet						
Styrene	5.00 U	5.00	ug/kg wet						

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WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-107 Project Number: K2099 Project Manager: Joan Kessner	**Reported:** 07/08/2010 16:02

Volatile Organic Compounds by SW846 8260B - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L007039 - SW 5035									
Blank (L007039-BLK2)			Prepared & Analyzed: 06/29/2010						
Tetrachloroethene	5.00 U	5.00	ug/kg wet						
trans-1,2-Dichloroethene	5.00 U	5.00	ug/kg wet						
Toluene	5.00 U	5.00	ug/kg wet						
trans-1,3-Dichloropropene	5.00 U	5.00	ug/kg wet						
Trichloroethene	5.00 U	5.00	ug/kg wet						
Vinyl chloride	10.0 U	10.0	ug/kg wet						
Xylenes, total	5.00 U	5.00	ug/kg wet						
Surrogate: 1,2-Dichloroethane-d4	*39.4*		*ug/kg wet*	*50.000*		*79*	*63-151*		
Surrogate: Toluene-d8	*44.9*		*ug/kg wet*	*50.000*		*90*	*68-140*		
Surrogate: 4-Bromofluorobenzene	*60.0*		*ug/kg wet*	*50.000*		*120*	*66-122*		
LCS (L007039-BS2)			Prepared & Analyzed: 06/29/2010						
1,1,1-Trichloroethane	52.9	5.00	ug/kg wet	50.000		106	60-140		
1,1,2,2-Tetrachloroethane	35.3	5.00	ug/kg wet	50.000		71	70-130		
1,1,2-Trichloroethane	39.1	5.00	ug/kg wet	50.000		78	70-130		
1,1-Dichloroethane	51.2	5.00	ug/kg wet	50.000		102	60-140		
1,1-Dichloroethene	54.9	5.00	ug/kg wet	50.000		110	60-130		
1,2-Dichloroethane	46.0	6.00	ug/kg wet	50.000		92	60-140		
1,2-Dichloroethene (total)	100	5.00	ug/kg wet	100.00		100	60-140		
1,2-Dichloropropane	45.5	5.00	ug/kg wet	50.000		91	70-130		
2-Butanone	71.4	12.0	ug/kg wet	50.000		143	20-200		
2-Hexanone	61.0	12.0	ug/kg wet	50.000		122	20-200		
4-Methyl-2-pentanone	46.9	12.0	ug/kg wet	50.000		94	50-150		
Acetone	93.6	12.0	ug/kg wet	50.000		187	20-200		
Benzene	47.4	5.00	ug/kg wet	50.000		95	70-130		
Bromodichloromethane	47.7	6.00	ug/kg wet	50.000		95	60-140		
Bromoform	41.8	5.00	ug/kg wet	50.000		84	60-140		
Bromomethane	54.4	10.0	ug/kg wet	50.000		109	50-180		
Carbon Disulfide	50.9	5.00	ug/kg wet	50.000		102	60-140		
Carbon Tetrachloride	56.2	5.00	ug/kg wet	50.000		112	60-140		
Chlorobenzene	45.7	5.00	ug/kg wet	50.000		91	70-130		
Chloroethane	59.2	10.0	ug/kg wet	50.000		118	50-180		
Chloroform	50.2	5.00	ug/kg wet	50.000		100	60-140		
Chloromethane	44.2	10.0	ug/kg wet	50.000		88	50-180		
cis-1,2-Dichloroethene	49.5	5.00	ug/kg wet	50.000		99	60-140		
cis-1,3-Dichloropropene	43.1	5.00	ug/kg wet	50.000		86	70-130		
Dibromochloromethane	42.5	5.00	ug/kg wet	50.000		85	70-130		

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WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-107 Project Number: K2099 Project Manager: Joan Kessner	Reported: 07/08/2010 16:02

Volatile Organic Compounds by SW846 8260B - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L007039 - SW 5035									
LCS (L007039-BS2)			Prepared & Analyzed: 06/29/2010						
Ethylbenzene	46.9	5.00	ug/kg wet	50.000		94	70-130		
Methylene Chloride	54.8	6.00	ug/kg wet	50.000		110	50-180		
Styrene	45.8	5.00	ug/kg wet	50.000		92	70-130		
Tetrachloroethene	51.3	5.00	ug/kg wet	50.000		103	60-140		
trans-1,2-Dichloroethene	50.7	5.00	ug/kg wet	50.000		101	60-140		
Toluene	46.2	5.00	ug/kg wet	50.000		92	70-130		
trans-1,3-Dichloropropene	39.0	5.00	ug/kg wet	50.000		78	70-130		
Trichloroethene	53.9	5.00	ug/kg wet	50.000		108	70-130		
Vinyl chloride	56.5	10.0	ug/kg wet	50.000		113	50-180		
Xylenes, total	144	5.00	ug/kg wet	150.00		96	70-130		
Surrogate: 1,2-Dichloroethane-d4	*41.8*		*ug/kg wet*	*50.000*		*84*	*63-151*		
Surrogate: Toluene-d8	*43.4*		*ug/kg wet*	*50.000*		*87*	*68-140*		
Surrogate: 4-Bromofluorobenzene	*50.6*		*ug/kg wet*	*50.000*		*101*	*66-122*		
Matrix Spike (L007039-MS1)		**Source: 1006082-11**	Prepared & Analyzed: 06/29/2010						
1,1,1-Trichloroethane	52.4	5.09	ug/kg dry	50.899	4.81 U	103	60-140		
1,1,2,2-Tetrachloroethane	41.2	5.09	ug/kg dry	50.899	4.81 U	81	70-130		
1,1,2-Trichloroethane	47.9	5.09	ug/kg dry	50.899	4.81 U	94	70-130		
1,1-Dichloroethane	55.7	5.09	ug/kg dry	50.899	4.81 U	109	60-140		
1,1-Dichloroethene	53.2	5.09	ug/kg dry	50.899	4.81 U	104	60-130		
1,2-Dichloroethane	52.5	6.11	ug/kg dry	50.899	5.77 U	103	60-140		
1,2-Dichloroethene (total)	103	5.09	ug/kg dry	101.80	4.81 U	101	60-140		
1,2-Dichloropropane	54.5	5.09	ug/kg dry	50.899	4.81 U	107	70-130		
2-Butanone	95.2	12.2	ug/kg dry	50.899	11.5 U	187	20-200		
2-Hexanone	89.3	12.2	ug/kg dry	50.899	11.5 U	175	20-200		
4-Methyl-2-pentanone	64.2	12.2	ug/kg dry	50.899	11.5 U	126	50-150		
Acetone	118	12.2	ug/kg dry	50.899	11.5 U	231*	20-200		
Benzene	53.9	5.09	ug/kg dry	50.899	4.81 U	106	70-130		
Bromodichloromethane	53.8	6.11	ug/kg dry	50.899	5.77 U	106	60-140		
Bromoform	47.0	5.09	ug/kg dry	50.899	4.81 U	92	60-140		
Bromomethane	53.9	10.2	ug/kg dry	50.899	9.61 U	106	50-180		
Carbon Disulfide	53.9	5.09	ug/kg dry	50.899	4.81 U	106	60-140		
Carbon Tetrachloride	52.8	5.09	ug/kg dry	50.899	4.81 U	104	60-140		
Chlorobenzene	50.9	5.09	ug/kg dry	50.899	4.81 U	100	70-130		
Chloroethane	64.2	10.2	ug/kg dry	50.899	9.61 U	126	50-180		
Chloroform	53.9	5.09	ug/kg dry	50.899	4.81 U	106	60-140		
Chloromethane	49.0	10.2	ug/kg dry	50.899	9.61 U	96	50-180		

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WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-107 Project Number: K2099 Project Manager: Joan Kessner	**Reported:** 07/08/2010 16:02

Volatile Organic Compounds by SW846 8260B - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L007039 - SW 5035									
Matrix Spike (L007039-MS1)		**Source: 1006082-11**	Prepared & Analyzed: 06/29/2010						
cis-1,2-Dichloroethene	52.2	5.09	ug/kg dry	50.899	4.81 U	102	60-140		
cis-1,3-Dichloropropene	51.3	5.09	ug/kg dry	50.899	4.81 U	101	70-130		
Dibromochloromethane	48.0	5.09	ug/kg dry	50.899	4.81 U	94	70-130		
Ethylbenzene	51.5	5.09	ug/kg dry	50.899	4.81 U	101	70-130		
Methylene Chloride	61.3	6.11	ug/kg dry	50.899	5.77 U	120	50-180		
Styrene	51.6	5.09	ug/kg dry	50.899	4.81 U	101	70-130		
Tetrachloroethene	48.4	5.09	ug/kg dry	50.899	4.81 U	95	60-140		
trans-1,2-Dichloroethene	51.0	5.09	ug/kg dry	50.899	4.81 U	100	60-140		
Toluene	51.7	5.09	ug/kg dry	50.899	4.81 U	102	70-130		
trans-1,3-Dichloropropene	49.9	5.09	ug/kg dry	50.899	4.81 U	98	70-130		
Trichloroethene	57.4	5.09	ug/kg dry	50.899	4.81 U	113	70-130		
Vinyl chloride	57.9	10.2	ug/kg dry	50.899	9.61 U	114	50-180		
Xylenes, total	159	5.09	ug/kg dry	152.70	4.81 U	104	70-130		
Surrogate: 1,2-Dichloroethane-d4	*48.2*		*ug/kg dry*	*50.899*		*95*	*63-151*		
Surrogate: Toluene-d8	*48.2*		*ug/kg dry*	*50.899*		*95*	*68-140*		
Surrogate: 4-Bromofluorobenzene	*58.0*		*ug/kg dry*	*50.899*		*114*	*66-122*		
Matrix Spike Dup (L007039-MSD1)		**Source: 1006082-11**	Prepared & Analyzed: 06/29/2010						
1,1,1-Trichloroethane	51.7	4.90	ug/kg dry	48.979	4.81 U	106	60-140	3	20
1,1,2,2-Tetrachloroethane	42.9	4.90	ug/kg dry	48.979	4.81 U	88	70-130	8	20
1,1,2-Trichloroethane	46.0	4.90	ug/kg dry	48.979	4.81 U	94	70-130	0.2	20
1,1-Dichloroethane	52.7	4.90	ug/kg dry	48.979	4.81 U	108	60-140	2	20
1,1-Dichloroethene	51.1	4.90	ug/kg dry	48.979	4.81 U	104	60-130	0.1	20
1,2-Dichloroethane	52.0	5.88	ug/kg dry	48.979	5.77 U	106	60-140	3	20
1,2-Dichloroethene (total)	98.8	4.90	ug/kg dry	97.957	4.81 U	101	60-140	0.5	20
1,2-Dichloropropane	51.0	4.90	ug/kg dry	48.979	4.81 U	104	70-130	3	20
2-Butanone	96.7	11.8	ug/kg dry	48.979	11.5 U	197	20-200	5	20
2-Hexanone	92.8	11.8	ug/kg dry	48.979	11.5 U	189	20-200	8	20
4-Methyl-2-pentanone	66.6	11.8	ug/kg dry	48.979	11.5 U	136	50-150	7	20
Acetone	125	11.8	ug/kg dry	48.979	11.5 U	255*	20-200	10	20
Benzene	50.8	4.90	ug/kg dry	48.979	4.81 U	104	70-130	2	20
Bromodichloromethane	52.0	5.88	ug/kg dry	48.979	5.77 U	106	60-140	0.4	20
Bromoform	46.4	4.90	ug/kg dry	48.979	4.81 U	95	60-140	2	20
Bromomethane	48.4	9.80	ug/kg dry	48.979	9.61 U	99	50-180	7	20
Carbon Disulfide	50.8	4.90	ug/kg dry	48.979	4.81 U	104	60-140	2	20
Carbon Tetrachloride	51.4	4.90	ug/kg dry	48.979	4.81 U	105	60-140	1	20
Chlorobenzene	46.9	4.90	ug/kg dry	48.979	4.81 U	96	70-130	4	20

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 16:02

Volatile Organic Compounds by SW846 8260B - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L007039 - SW 5035									
Matrix Spike Dup (L007039-MSD1)	**Source: 1006082-11**		Prepared & Analyzed: 06/29/2010						
Chloroethane	58.6	9.80	ug/kg dry	48.979	9.61 U	120	50-180	5	20
Chloroform	51.3	4.90	ug/kg dry	48.979	4.81 U	105	60-140	1	20
Chloromethane	45.7	9.80	ug/kg dry	48.979	9.61 U	93	50-180	3	20
cis-1,2-Dichloroethene	49.8	4.90	ug/kg dry	48.979	4.81 U	102	60-140	0.8	20
cis-1,3-Dichloropropene	48.5	4.90	ug/kg dry	48.979	4.81 U	99	70-130	2	20
Dibromochloromethane	45.7	4.90	ug/kg dry	48.979	4.81 U	93	70-130	1	20
Ethylbenzene	47.9	4.90	ug/kg dry	48.979	4.81 U	98	70-130	3	20
Methylene Chloride	56.6	5.88	ug/kg dry	48.979	5.77 U	116	50-180	4	20
Styrene	48.2	4.90	ug/kg dry	48.979	4.81 U	98	70-130	3	20
Tetrachloroethene	45.3	4.90	ug/kg dry	48.979	4.81 U	92	60-140	3	20
trans-1,2-Dichloroethene	49.0	4.90	ug/kg dry	48.979	4.81 U	100	60-140	0.1	20
Toluene	48.8	4.90	ug/kg dry	48.979	4.81 U	100	70-130	2	20
trans-1,3-Dichloropropene	46.6	4.90	ug/kg dry	48.979	4.81 U	95	70-130	3	20
Trichloroethene	53.7	4.90	ug/kg dry	48.979	4.81 U	110	70-130	3	20
Vinyl chloride	52.5	9.80	ug/kg dry	48.979	9.61 U	107	50-180	6	20
Xylenes, total	144	4.90	ug/kg dry	146.94	4.81 U	98	70-130	6	20
Surrogate: 1,2-Dichloroethane-d4	*47.1*		*ug/kg dry*	*48.979*		*96*	*63-151*		
Surrogate: Toluene-d8	*44.9*		*ug/kg dry*	*48.979*		*92*	*68-140*		
Surrogate: 4-Bromofluorobenzene	*56.7*		*ug/kg dry*	*48.979*		*116*	*66-122*		

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-107 Project Number: K2095 Project Manager: Joan Kessner	**Reported:** 07/19/2010 14:04

Volatile Organic Compounds by SW846 8260B - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L007031 - SW 5035									
Matrix Spike (L007031-MS1)		**Source: 1006072-11**	Prepared & Analyzed: 06/23/2010						
1,1,1-Trichloroethane	57.2	5.73	ug/kg dry	57.280	5.30 U	100	60-140		
1,1,2,2-Tetrachloroethane	55.9	5.73	ug/kg dry	57.280	5.30 U	98	70-130		
1,1,2-Trichloroethane	52.6	5.73	ug/kg dry	57.280	5.30 U	92	70-130		
1,1-Dichloroethane	54.0	5.73	ug/kg dry	57.280	5.30 U	94	60-140		
1,1-Dichloroethene	51.4	5.73	ug/kg dry	57.280	5.30 U	90	60-130		
1,2-Dichloroethane	58.8	6.87	ug/kg dry	57.280	6.36 U	103	60-140		
1,2-Dichloroethene (total)	106	5.73	ug/kg dry	114.56	5.30 U	92	60-140		
1,2-Dichloropropane	55.8	5.73	ug/kg dry	57.280	5.30 U	97	70-130		
2-Butanone	109	13.7	ug/kg dry	57.280	12.7 U	191	20-200		
2-Hexanone	96.6	13.7	ug/kg dry	57.280	12.7 U	169	20-200		
4-Methyl-2-pentanone	66.8	13.7	ug/kg dry	57.280	12.7 U	117	50-150		
Acetone	140	13.7	ug/kg dry	57.280	12.7 U	244*	20-200		
Benzene	53.7	5.73	ug/kg dry	57.280	5.30 U	94	70-130		
Bromodichloromethane	57.8	6.87	ug/kg dry	57.280	6.36 U	101	60-140		
Bromoform	53.5	5.73	ug/kg dry	57.280	5.30 U	93	60-140		
Bromomethane	44.2	11.5	ug/kg dry	57.280	10.6 U	77	50-180		
Carbon Disulfide	50.5	5.73	ug/kg dry	57.280	5.30 U	88	60-140		
Carbon Tetrachloride	58.4	5.73	ug/kg dry	57.280	5.30 U	102	60-140		
Chlorobenzene	52.0	5.73	ug/kg dry	57.280	5.30 U	91	70-130		
Chloroethane	56.0	11.5	ug/kg dry	57.280	10.6 U	98	50-180		
Chloroform	57.9	5.73	ug/kg dry	57.280	5.30 U	101	60-140		
Chloromethane	38.1	11.5	ug/kg dry	57.280	10.6 U	67	50-180		
cis-1,2-Dichloroethene	52.3	5.73	ug/kg dry	57.280	5.30 U	91	60-140		
cis-1,3-Dichloropropene	48.8	5.73	ug/kg dry	57.280	5.30 U	85	70-130		
Dibromochloromethane	52.5	5.73	ug/kg dry	57.280	5.30 U	92	70-130		
Ethylbenzene	51.6	5.73	ug/kg dry	57.280	5.30 U	90	70-130		
Methylene Chloride	50.0	6.87	ug/kg dry	57.280	6.36 U	87	50-180		
Styrene	51.4	5.73	ug/kg dry	57.280	5.30 U	90	70-130		
Tetrachloroethene	49.2	5.73	ug/kg dry	57.280	5.30 U	86	60-140		
trans-1,2-Dichloroethene	53.3	5.73	ug/kg dry	57.280	5.30 U	93	60-140		
Toluene	53.7	5.73	ug/kg dry	57.280	5.30 U	94	70-130		
trans-1,3-Dichloropropene	53.0	5.73	ug/kg dry	57.280	5.30 U	92	70-130		
Trichloroethene	53.2	5.73	ug/kg dry	57.280	5.30 U	93	70-130		
Vinyl chloride	45.6	11.5	ug/kg dry	57.280	10.6 U	80	50-180		
Xylenes, total	159	5.73	ug/kg dry	171.84	5.30 U	92	70-130		
Surrogate: 1,2-Dichloroethane-d4	*55.6*		*ug/kg dry*	*57.280*		*97*	*63-151*		

29a

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-107 Project Number: K2095 Project Manager: Joan Kessner	**Reported:** 07/19/2010 14:04

Volatile Organic Compounds by SW846 8260B - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L007031 - SW 5035									
Matrix Spike (L007031-MS1)		**Source: 1006072-11**	Prepared & Analyzed: 06/23/2010						
Surrogate: Toluene-d8	*52.8*		*ug/kg dry*	*57.280*		*92*	*68-140*		
Surrogate: 4-Bromofluorobenzene	*67.1*		*ug/kg dry*	*57.280*		*117*	*66-122*		
Matrix Spike Dup (L007031-MSD1)		**Source: 1006072-11**	Prepared & Analyzed: 06/23/2010						
1,1,1-Trichloroethane	57.0	5.51	ug/kg dry	55.077	5.30 U	103	60-140	3	20
1,1,2,2-Tetrachloroethane	54.0	5.51	ug/kg dry	55.077	5.30 U	98	70-130	0.4	20
1,1,2-Trichloroethane	52.8	5.51	ug/kg dry	55.077	5.30 U	96	70-130	4	20
1,1-Dichloroethane	54.6	5.51	ug/kg dry	55.077	5.30 U	99	60-140	5	20
1,1-Dichloroethene	52.4	5.51	ug/kg dry	55.077	5.30 U	95	60-130	6	20
1,2-Dichloroethane	58.0	6.61	ug/kg dry	55.077	6.36 U	105	60-140	3	20
1,2-Dichloroethene (total)	106	5.51	ug/kg dry	110.15	5.30 U	96	60-140	4	20
1,2-Dichloropropane	53.8	5.51	ug/kg dry	55.077	5.30 U	98	70-130	0.2	20
2-Butanone	106	13.2	ug/kg dry	55.077	12.7 U	192	20-200	0.8	20
2-Hexanone	91.0	13.2	ug/kg dry	55.077	12.7 U	165	20-200	2	20
4-Methyl-2-pentanone	64.6	13.2	ug/kg dry	55.077	12.7 U	117	50-150	0.7	20
Acetone	145	13.2	ug/kg dry	55.077	12.7 U	263*	20-200	7	20
Benzene	53.3	5.51	ug/kg dry	55.077	5.30 U	97	70-130	3	20
Bromodichloromethane	58.1	6.61	ug/kg dry	55.077	6.36 U	106	60-140	5	20
Bromoform	53.7	5.51	ug/kg dry	55.077	5.30 U	98	60-140	4	20
Bromomethane	45.0	11.0	ug/kg dry	55.077	10.6 U	82	50-180	6	20
Carbon Disulfide	50.0	5.51	ug/kg dry	55.077	5.30 U	91	60-140	3	20
Carbon Tetrachloride	56.6	5.51	ug/kg dry	55.077	5.30 U	103	60-140	0.8	20
Chlorobenzene	52.0	5.51	ug/kg dry	55.077	5.30 U	94	70-130	4	20
Chloroethane	58.2	11.0	ug/kg dry	55.077	10.6 U	106	50-180	8	20
Chloroform	57.3	5.51	ug/kg dry	55.077	5.30 U	104	60-140	3	20
Chloromethane	42.5	11.0	ug/kg dry	55.077	10.6 U	77	50-180	15	20
cis-1,2-Dichloroethene	54.2	5.51	ug/kg dry	55.077	5.30 U	98	60-140	7	20
cis-1,3-Dichloropropene	48.0	5.51	ug/kg dry	55.077	5.30 U	87	70-130	2	20
Dibromochloromethane	52.3	5.51	ug/kg dry	55.077	5.30 U	95	70-130	4	20
Ethylbenzene	53.1	5.51	ug/kg dry	55.077	5.30 U	96	70-130	7	20
Methylene Chloride	51.1	6.61	ug/kg dry	55.077	6.36 U	93	50-180	6	20
Styrene	52.5	5.51	ug/kg dry	55.077	5.30 U	95	70-130	6	20
Tetrachloroethene	49.8	5.51	ug/kg dry	55.077	5.30 U	90	60-140	5	20
trans-1,2-Dichloroethene	51.9	5.51	ug/kg dry	55.077	5.30 U	94	60-140	1	20
Toluene	52.8	5.51	ug/kg dry	55.077	5.30 U	96	70-130	2	20
trans-1,3-Dichloropropene	50.3	5.51	ug/kg dry	55.077	5.30 U	91	70-130	1	20
Trichloroethene	55.4	5.51	ug/kg dry	55.077	5.30 U	101	70-130	8	20

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2095	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	07/19/2010 14:04

Volatile Organic Compounds by SW846 8260B - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L007031 - SW 5035									
Matrix Spike Dup (L007031-MSD1)		**Source: 1006072-11**	Prepared & Analyzed: 06/23/2010						
Vinyl chloride	47.6	11.0	ug/kg dry	55.077	10.6 U	86	50-180	8	20
Xylenes, total	160	5.51	ug/kg dry	165.23	5.30 U	97	70-130	5	20
Surrogate: 1,2-Dichloroethane-d4	*55.9*		*ug/kg dry*	*55.077*		*101*	*63-151*		
Surrogate: Toluene-d8	*51.3*		*ug/kg dry*	*55.077*		*93*	*68-140*		
Surrogate: 4-Bromofluorobenzene	*62.5*		*ug/kg dry*	*55.077*		*113*	*66-122*		

29c

PREPARATION BENCH SHEET

L007031

Lionville Laboratory

Printed: 7/8/2010 9:07:23AM

Matrix: Solid **Prepared using: VOAGCMS - SW 5035** **Surrogate used: 1000780**

Lab Number	Analysis	Prepared	Initial (g)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	Client	Extraction Comments
1006072-10RE1	8260B TCL VOC	06/23/2010 17:20	5	5				5	WC-Hanford, Inc.	From L006211 by JVG on 07/06/2010
1006072-11	8260B TCL VOC	06/23/2010 16:44	5.4	5				5	WC-Hanford, Inc.	
1006072-12	8260B TCL VOC	06/23/2010 16:08	5.6	5				5	WC-Hanford, Inc.	
1006072-13	8260B TCL VOC	06/23/2010 15:32	5.4	5				5	WC-Hanford, Inc.	
1006072-14	8260B TCL VOC	06/23/2010 14:57	5	5				5	WC-Hanford, Inc.	
1006082-10RE1	8260B TCL VOC	06/23/2010 19:43	5.3	5				5	WC-Hanford, Inc.	From L007039 by TLB on 07/07/2010
1006082-12	8260B TCL VOC	06/23/2010 18:32	5.8	5				5	WC-Hanford, Inc.	
1006082-14	8260B TCL VOC	06/23/2010 17:56	5.6	5				5	WC-Hanford, Inc.	
L007031-BLK1	QC	06/23/2010 14:03	5	5				5		
L007031-BS1	QC	06/23/2010 12:03	5	5	1000841		2.5	5		
L007031-MS1	QC	06/23/2010 20:19	5	5	1000841	1006072-11	2.5	5		
L007031-MSD1	QC	06/23/2010 20:53	5.2	5	1000841	1006072-11	2.5	5		

NA 07/08/10

Extracts Relinquished By Date Extracts Received By Date

PREPARATION BENCH SHEET

L007039

Lionville Laboratory

Printed: 7/8/2010 9:07:43AM

Matrix: Solid **Prepared using: VOAGCMS - SW 5035** **Surrogate used: 1000780**

Lab Number	Analysis	Prepared	Initial (g)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	Client	Extraction Comments
1006082-01	8260B TCL VOC	06/21/2010 14:20	5.1	5				5	WC-Hanford, Inc.	
1006082-02	8260B TCL VOC	06/21/2010 14:55	5.6	5				5	WC-Hanford, Inc.	
1006082-03	8260B TCL VOC	06/21/2010 15:31	6.1	5				5	WC-Hanford, Inc.	
1006082-04	8260B TCL VOC	06/21/2010 16:07	5.5	5				5	WC-Hanford, Inc.	
1006082-05	8260B TCL VOC	06/21/2010 16:42	5.2	5				5	WC-Hanford, Inc.	
1006082-06	8260B TCL VOC	06/21/2010 17:18	5	5				5	WC-Hanford, Inc.	
1006082-07	8260B TCL VOC	06/21/2010 17:54	5.9	5				5	WC-Hanford, Inc.	
1006082-08	8260B TCL VOC	06/21/2010 18:30	5.7	5				5	WC-Hanford, Inc.	
1006082-09	8260B TCL VOC	06/21/2010 19:06	5.9	5				5	WC-Hanford, Inc.	
1006082-10	8260B TCL VOC	06/21/2010 19:41	5.5	5				5	WC-Hanford, Inc.	
1006082-11	8260B TCL VOC	06/21/2010 20:17	5.4	5				5	WC-Hanford, Inc.	
1006082-13	8260B TCL VOC	06/21/2010 21:29	5.8	5				5	WC-Hanford, Inc.	
1006083-10	8260B TCL VOC	06/21/2010 21:29	5	5				5	WC-Hanford, Inc.	
1006083-11	8260B TCL VOC	06/21/2010 21:29	5	5				5	WC-Hanford, Inc.	
L007039-BLK1	QC	06/21/2010 11:35	5	5				5		
L007039-BLK2	QC	06/29/2010 13:46	5	5				5		
L007039-BS1	QC	06/21/2010 11:35	5	5	1000841		2.5	5		
L007039-BS2	QC	06/29/2010 12:19	5	5	1000841		2.5	5		
L007039-MS1	QC	06/29/2010 17:02	5.1	5	1000841	1006082-11	2.5	5		
L007039-MS2	QC	06/29/2010 15:50	5	5	1000841	1006083-10	2.5	5		

NA 7/9/10

Extracts Relinquished By Date Extracts Received By Date

PREPARATION BENCH SHEET

L007039

Lionville Laboratory

Printed: 7/8/2010 9:07:43AM

Matrix: Solid **Prepared using: VOAGCMS - SW 5035** **Surrogate used: 1000780**

Lab Number	Analysis	Prepared	Initial (g)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	Client	Extraction Comments
L007039-MSD1	QC	06/29/2010 17:38	5.3	5	1000841	1006082-11	2.5	5		
L007039-MSD2	QC	06/29/2010 16:07	5	5	1000841	1006083-10	2.5	5		

NA Rec 7/8/10

Extracts Relinquished By / Date

Extracts Received By / Date

Lionville Laboratory Use Only: 1006 082

Custody Transfer Record/Lab Work Request

Page 1 of 2

LVLI Lionville Laboratory Inc.

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Client: WCHANFORD SAF#RC-107

Est. Final Proj. Sampling Date:

Project#:

Project Contact/Phone#:

Lionville Laboratory Project Manager: O. JOHNSON

QC: SW Del: SW TAT: 21 Days

Date Rec'd: 6/17/10 Date Due: 7-8-10

	A	B	C		D	E		F				G			
Refrigerator #	VOA	2	2		2	2		2	—	—	—	2			
#/Type Container (~~Liquid~~ / Solid)	1AG	1AG	1AG		1AG	1AG		1	—	—	—	1			
Volume	60	120	60		120	120		125	—	—	—	125			
Preservatives	—	—	—		—	—		—	—	—	—	—			
ANALYSES REQUESTED →	ORGANIC: VOA	BNA	~~Pest~~ PCB	Herb	PAHs	Pest		INORG: Metal	~~Cl~~	Anions	CN	NH3			
Lionville Laboratory Use Only	VOA, TCL	BNA, TCL	PCB		8310	Pest		metals		Anions	CN	NH3			

MATRIX CODES:
S- Soil
SE- Sediment
SO- Solid
SL- Sludge
W- Water
O- Oil
A- Air
DS- Drum Solids
DL- Drum Liquids
L- EP/TCLP Leachate
WI- Wipe
X- Other
F- Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	VOA, TCL	BNA, TCL	PCB		8310	Pest		metals		Anions	CN	NH3			
01	JIB 595			Soil	6/15/10	1105	X	X	X		X	X		X		X	X	X			
02	96					1125	X	X	X		X	X		X		X	X	X			
03	97					1145	X	X	X		X	X		X		X	X	X			
04	98					1140	X	X	X		X	X		X		X	X	X			
05	99					1245	X	X	X		X	X		X		X	X	X			
06	B0					1305	X	X	X		X	X		X		X	X	X			
07	B1					1325	X	X	X		X	X		X		X	X	X			
08	B2					1320	X	X	X		X	X		X		X	X	X			
09	B3					1330	X	X	X		X	X		X		X	X	X			
10	B4					1340	X	X	X		X	X		X		X	X	X			

Special Instructions: MATRIX QC
Non Rad
JB.

METHOD = HS2+B, Moisture (NO TL)

Special Instructions:
1.
2.
3.
4.
5.
6.

Relinquished by	Received by	Date	Time
FedEx	[signature]	6/17/10	1020

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time

Lionville Laboratory Use Only

1006082

Custody Transfer Record/Lab Work Request

Page 2 of 2

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

LVLI Lionville Laboratory Inc.

Client: WC Hanford SAF# RC-107

Est. Final Proj. Sampling Date: Rec Pg 1

Project#:

Project Contact/Phone#:

Lionville Laboratory Project Manager: C. JOHNSON

QC: SW Del: SAL TAT: 21 Days

Date Rec'd: 6-17-10 Date Due: 7-8-10

Refrigerator #		NOA	2	2		2	2		2			1	2			
#/Type Container	~~Liquid~~ Solid	1AG	1AG	1AG		1AG	1AG		1			1	1			
Volume		60	120	60		120	120		125			1	125			
Preservatives												1				
ANALYSES REQUESTED →		ORGANIC							INORG							
		VOA	BNA	~~Pest~~ PCB	~~Herb~~	PAHs	PCST		Metal Hg		IC Anions	CrT6	NO2 NO3			

MATRIX CODES:
S- Soil
SE- Sediment
SO- Solid
SL- Sludge
W- Water
O- Oil
A- Air
DS- Drum Solids
DL- Drum Liquids
L- EP/TCLP Leachate
WI- Wipe
X- Other
F- Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	Lionville Laboratory Use Only														
11	TIB5B5			SOIL	6-15-10	1355	X	X	X		X	X		X		X	X	X			
12	B6					1400	X	X	X		X	X		X		X	X	X			
13	B7					1145	X	X	X		X	X		X		X	X	X			
14	D3					0845	X	VH 6/17/10													

Special Instructions:

Special Instructions:

1.
2.
3.
4.
5.
6.

Relinquished by	Received by	Date	Time
Fed Ex	V. Nunnally	6/17/10	1020

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time

3688834

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-035	Page 1 of 3

Collector: J. Sellers	Company Contact: Don Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Drain Field Excavation Area		SAF No.: RC-107
Ice Chest No.: WCH-08-034	Field Logbook No.: EL 1627-4	COA: 0607H32000	Method of Shipment: Fed Ex
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: A 100 220		Bill of Lading/Air Bill No.: See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	
Type of Container	G/P	G/P	G/P	G/P	aG	aG	aG	aG	aG	
No. of Container(s)	1	0	0	1	1	1	1	1	1	
Volume	125mL	60mL	60mL	125mL	60mL	120mL	60mL	120mL	120mL	
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	NO2/NO3 - 353.2	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081	

Sample No.	Matrix *	Sample Date	Sample Time										
J1B595	SOIL	6-15-10	1105	X	X	X	X	X	X	X	X	X	
J1B596	SOIL	6-15-10	1125	X	X	X	X	X	X	X	X	X	
J1B597	SOIL	6-15-10	1145	X	X	X	X	X	X	X	X	X	
J1B598	SOIL	6-15-10	1140	X	X	X	X	X	X	X	X	X	
J1B599	SOIL	6-15-10	1245	X	X	X	X	X	X	X	X	X	

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J. Sellers Josh Sellers	6-15-10 1440	Sterling Howell	6-15-10 1440
Sterling Howell	6-15-10 1645	Daniel Hansen	6-15-10 / 1645
Daniel Hansen WCH	6-16-10 / 1000	FED EX	
FED EX	6-17-10 1020	VICTOR HERNANDEZ	6-17-10 1020

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)
(2) IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}

REVIEWED BY JEB DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-035	Page 2 of 3

Collector: J. Sellers	Company Contact: Don Woolery Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH	Price Code: 8L Data Turnaround: 21 Days
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Drain Field Excavation Area	SAF No.: RC-107	
Ice Chest No.: WCH-08-034	Field Logbook No.: EL 1627-4 COA: 0607H32000	Method of Shipment: Fed Ex	
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: A100220	Bill of Lading/Air Bill No.: See OSPC	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C		
Type of Container	G/P	G/P	G/P	G/P	aG	aG	aG	aG	aG		
No. of Container(s)	1	0	0	1	1	1	1	1	1		
Volume	125mL	60mL	60mL	125mL	60mL	120mL	60mL	120mL	120mL		
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	NO2/NO3 - 353.2	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081		
Sample No. / Matrix * / Sample Date / Sample Time											
J1B5B0 / SOIL / 6-15-10 / 1305	X	X	X	X	X	X	X	X	X		
J1B5B1 / SOIL / 6-15-10 / 1325	X	X	X	X	X	X	X	X	X		
J1B5B2 / SOIL / 6-15-10 / 1320	X	X	X	X	X	X	X	X	X		
J1B5B3 / SOIL / 6-15-10 / 1330	X	X	X	X	X	X	X	X	X		
J1B5B4 / SOIL / 6-15-10 / 1340	X	X	X	X	X	X	X	X	X		

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J. Sellers / Josh Sellers	6-15-10 1440	Sterling Howell	6-15-10 1440
Sterling Howell	6-15-10 1645	Daniel Hewen	6-15-10 1645
Daniel Hewen (WCH)	6-16-10 1000	FED EX	
FED EX	6-17-10 1020	V. Lopez	6-17-10 1020

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)
(2) IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}

REVIEWED BY JEB
DATE 6-16-10

Matrix *

S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-035	Page 3 of 3
Collector J. Sellers	Company Contact: Don Woolery; Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH	Price Code: 8L; Data Turnaround: 21 Days
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Drain Field Excavation Area	SAF No.: RC-107	
Ice Chest No. WCH-08-034	Field Logbook No.: EL 1627-4; COA: 0607H32000	Method of Shipment: Fed Ex	
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No. A100220	Bill of Lading/Air Bill No.: See OSPC	

POSSIBLE SAMPLE ~~HAZARDS/REMARKS~~

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation		None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	
Type of Container		G/P	G/P	G/P	G/P	aG	aG	aG	aG	aG	
No. of Container(s)		1	0	0	1	1	1	1	1	1	
Volume		125mL	60mL	60mL	125mL	60mL	120mL	60mL	120mL	120mL	
SAMPLE ANALYSIS		See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	NO2/NO3 - 353.2	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081	
Sample No.	Matrix * / Sample Date / Sample Time										
J1B5B5	SOIL / 6-15-10 / 1355	X	X	X	X	X	X	X	X	X	
J1B5B6	SOIL / 6-15-10 / 1400	X	X	X	X	X	X	X	X	X	
J1B5B7	SOIL / 6-15-10 / 1145	X	X	X	X	X	X	X	X	X	

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J. Sellers Josh Sellers	6-15-10 1440	Sterling Howell	6-15-10 1440
Sterling Howell	6-15-10 1645	Daniel Herrera	6-15-10 / 1645
Daniel Herrera (WCH)	6-16-10 / 1000	FED EX	
FED EX	6-17-10 1020	VICTOR HERNANDEZ	6/17-10 1020

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)
(2) IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}

REVIEWED BY JEB
DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wl=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-037	Page 1 of 1

Collector: J. Sellers	Company Contact: Don Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Trip Blanks		SAF No.: RC-107
Ice Chest No.: WCH-08-034	Field Logbook No.: EL 1627-4	COA: 0607H32000	Method of Shipment: Fed Ex
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: A100220		Bill of Lading/Air Bill No.: See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	Cool 4C											
Type of Container	aG											
No. of Container(s)	1											
Volume	60mL											
SAMPLE ANALYSIS	VOA - 8260A (TCL)											

Sample No.	Matrix *	Sample Date	Sample Time										
~~J1B5D2~~	~~SOIL~~	6/15/10											
J1B5D3	SOIL	6-15-10	~~0840~~ 0845 ~~6-15-10~~	X									

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS
Relinquished By/Removed From: J. Sellers / Josh Sellers — Date/Time: 6-15-10 1440	Received By/Stored In: Sterling Howell — Date/Time: 6-15-10 1440	
Relinquished By/Removed From: Sterling Howell — Date/Time: 6-15-10 1645	Received By/Stored In: David Herrera — Date/Time: 6-15-10 / 1645	
Relinquished By/Removed From: David Herrera — Date/Time: WCH 6-16-10 / 1000	Received By/Stored In: FED EX — Date/Time:	
Relinquished By/Removed From: [illegible] — Date/Time: 6-17-10 1010	Received By/Stored In: VICTOR HERNANDEZ — Date/Time: ~~6-10-10~~ ~~1020~~ 6-17-10	
Relinquished By/Removed From: — Date/Time:	Received By/Stored In: — Date/Time:	
Relinquished By/Removed From: — Date/Time:	Received By/Stored In: — Date/Time:	

REVIEWED BY JEB
DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

2599999038

Lionville Laboratory

SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: WC Hanford
Project/SAF/SOW/Release #: RC-107

Date: 6/17/10

LvL Batch #: 1006082

Sample Custodian: [signature]

NOTE. EXPLAIN ALL DISCREPANCIES

1. Samples Hand Delivered or Shipped?	Carrier FED EX		Airbill # 7936 4256 7389 7437 7470
2. Custody Seals on coolers or shipping containers intact, signed & dated?	☑ Yes	☐ No	☐ No Seals
3. Outside of coolers or shipping containers are free from damage?	☑ Yes	☐ No	Comments: Cooler outside Cracked inside
4. All expected paperwork received (coc & other client specific information) sealed in plactic bag and easily accessible?	☑ Yes	☐ No	
5. Samples received cooled or ambient?	Temp 2.1 2.2 3.2	°C	Cooler # WCH-08-034 025 BHI-94
How was the temperature taken?	☑ IR	☐ Temp. Blank	☐ Other (Specify)
Is the Temp. Criteria met for these samples? (Hg in soils @ 4°C)	☑ Yes	☐ No	
6. Custody seals on sample containers intact. signed and dated?	☑ Yes	☐ No	☐ No Seals
7. COC (Client & LvL) signed & dated?	☑ Yes	☐ No	
8. Sample containers are intact?	☑ Yes	☐ No	
9. All samples on COC received?	☑ Yes	☐ No	
All samples received on COC?	☑ Yes	☐ No	
10. All sample label information matches COC?	☑ Yes	☐ No	
11. Samples properly preserved? (If #5 is no. then this is no.)	☑ Yes	☐ No	
12. Samples received within hold times?	☑ Yes	☐ No	
Short holds taken to wet lab?	☐ Yes	☐ No	☑ N/A
13. VOA. TOC. TOX free of headspace?	☑ Yes	☐ No	☐ N/A
14. QC stickers placed on bottles designated by client?	☐ Yes	☐ No	☑ N/A
15. Shipment meets LvL Sample Acceptance Policy? (Identify all bottles that do not meet the policy. which is on the reverse of this page.)	☑ Yes	☐ No	
16. Project Manager contacted concerning any discrepancies?	☐ Yes	☐ No	☑ N/A

Person Contacted _____ Date _____

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-107 Project Number: K2099 Project Manager: Joan Kessner	**Reported:** 06/28/2010 19:50

Analytical Report for Polychlorinated Biphenyls by SW846 8082

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
J1B595	1006082-01	Soil	06/15/2010 11:05	06/17/2010 10:20
J1B596	1006082-02	Soil	06/15/2010 11:25	06/17/2010 10:20
J1B597	1006082-03	Soil	06/15/2010 11:45	06/17/2010 10:20
J1B598	1006082-04	Soil	06/15/2010 11:40	06/17/2010 10:20
J1B599	1006082-05	Soil	06/15/2010 12:45	06/17/2010 10:20
J1B5B0	1006082-06	Soil	06/15/2010 13:05	06/17/2010 10:20
J1B5B1	1006082-07	Soil	06/15/2010 13:25	06/17/2010 10:20
J1B5B2	1006082-08	Soil	06/15/2010 13:20	06/17/2010 10:20
J1B5B3	1006082-09	Soil	06/15/2010 13:30	06/17/2010 10:20
J1B5B4	1006082-10	Soil	06/15/2010 13:40	06/17/2010 10:20
J1B5B5	1006082-11	Soil	06/15/2010 13:55	06/17/2010 10:20
J1B5B6	1006082-12	Soil	06/15/2010 14:00	06/17/2010 10:20
J1B5B7	1006082-13	Soil	06/15/2010 11:45	06/17/2010 10:20

LIONVILLE LABORATORY
A division of Eberline Analytical Corporation

264 Welsh Pool Road
Exton, Pennsylvania 19341
Phone (610) 280-3000
Fax (610) 280-3041

Case Narrative

Client: WC-HANFORD RC-107 K2099
LVL #: 1006082

W.O. #: 60049-001-001-0001-00
Received: 06-17-2010

PCBs

Thirteen (13) soil samples were collected on 06-15-2010.

The samples and associated QC samples were extracted 06-17-2010 and analyzed 06-23-2010 according to criteria set forth in Lionville Laboratory SOPs. The extraction procedure was based on SW846 Method 3540C and the analysis procedure was based on SW846 Method 8082. All samples received Copper-Sulfur and Sulfuric Acid cleanups based on SW846 methods 3660A and 3665A.

Lionville Laboratory (LvL) is NELAP accredited by the State of Pennsylvania. For a complete listing of accrediting authorities and the corresponding analytes/methods, please contact your Project Manager. LvL certifies that all test results meet the requirements of NELAC with any exception noted in the following statements:

1. The results presented in this report are derived from samples that met LvL's sample acceptance policy.
2. All required holding times for extraction and analysis have been met.
3. All surrogate recoveries were within acceptance criteria.
4. The method blank was below the reporting limits for all target compounds.
5. All blank spike recoveries were within acceptance criteria.
6. All matrix spike recoveries were within acceptance criteria.
7. The samples are reported on a dry weight basis.
8. All initial calibrations associated with this data set were within acceptance criteria.
9. All continuing calibration standards analyzed prior to sample extracts were within acceptance criteria.
10. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or a designee as verified by the following signature.

Iain Daniels
LvL Laboratory Manager

7/1/10
Date

r:\group\data\2010\pcb\wc-hanford\1006-082cs2.doc

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 26 pages.

GLOSSARY OF DATA

DATA QUALIFIERS

U	=	Indicates that the compound was analyzed for but not detected. The minimum detection limit for the sample (not the method detection limit) is reported with the U (e.g., 10U).
J	=	Indicates an estimated value. This flag is used in cases where a target analyte is detected at a level less than the lower quantification level. If the limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.
B	=	This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination.
E	=	Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
I	=	Interference.
. I	=	Indicates an interference on one analytical column only. Result is reported from remaining analytical column.
P	=	This flag is used for a dual column analysis (i.e. pesticides/PCB/herbicides) when there is greater than 40% difference for detected concentrations between the two GC columns; the lower of the two values is reported on Form 1 and flagged with a "P".
D	=	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
C	=	This flag applies to a compound that has been confirmed by GC/MS.

ABBREVIATIONS

BS	=	Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.
BSD	=	Indicates blank spike duplicate.
MS	=	Indicates matrix spike.
MSD	=	Indicates matrix spike duplicate.
DL	=	Indicates that recoveries were not obtained because the extract had to be diluted for analysis.
NA	=	Not Applicable.
DF	=	Dilution Factor.
NR	=	Not Required.
NS	=	Not Spiked.
SP	=	Indicates Spiked Compound.
NPM	=	No pattern match for multi-component target analytes.

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/28/2010 19:50

J1B595

1006082-01 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Polychlorinated Biphenyls by SW846 8082								
Aroclor 1016	13.2 U	13.2	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1221	13.2 U	13.2	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1232	13.2 U	13.2	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1242	13.2 U	13.2	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1248	13.2 U	13.2	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1254	13.2 U	13.2	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1260	13.2 U	13.2	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Surrogate: Decachlorobiphenyl	*89 %*	*43-144*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*
Surrogate: Tetrachloro-meta-xylene	*87 %*	*52-141*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/28/2010 19:50

J1B596

1006082-02 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Polychlorinated Biphenyls by SW846 8082								
Aroclor 1016	13.2 U	13.2	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1221	13.2 U	13.2	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1232	13.2 U	13.2	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1242	13.2 U	13.2	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1248	13.2 U	13.2	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1254	13.2 U	13.2	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1260	13.2 U	13.2	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Surrogate: Decachlorobiphenyl	*91 %*	*43-144*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*
Surrogate: Tetrachloro-meta-xylene	*87 %*	*52-141*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/28/2010 19:50

J1B597

1006082-03 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Polychlorinated Biphenyls by SW846 8082								
Aroclor 1016	13.0 U	13.0	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1221	13.0 U	13.0	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1232	13.0 U	13.0	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1242	13.0 U	13.0	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1248	13.0 U	13.0	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1254	13.0 U	13.0	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1260	13.0 U	13.0	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Surrogate: Decachlorobiphenyl	*93 %*	*43-144*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*
Surrogate: Tetrachloro-meta-xylene	*86 %*	*52-141*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-107 Project Number: K2099 Project Manager: Joan Kessner	**Reported:** 06/28/2010 19:50

J1B598

1006082-04 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Polychlorinated Biphenyls by SW846 8082								
Aroclor 1016	13.3 U	13.3	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1221	13.3 U	13.3	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1232	13.3 U	13.3	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1242	13.3 U	13.3	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1248	13.3 U	13.3	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1254	13.3 U	13.3	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1260	13.3 U	13.3	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Surrogate: Decachlorobiphenyl	*95 %*	*43-144*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*
Surrogate: Tetrachloro-meta-xylene	*87 %*	*52-141*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/28/2010 19:50

J1B599

1006082-05 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Polychlorinated Biphenyls by SW846 8082								
Aroclor 1016	13.5 U	13.5	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1221	13.5 U	13.5	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1232	13.5 U	13.5	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1242	13.5 U	13.5	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1248	13.5 U	13.5	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1254	13.5 U	13.5	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1260	13.5 U	13.5	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Surrogate: Decachlorobiphenyl	*90 %*	*43-144*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*
Surrogate: Tetrachloro-meta-xylene	*88 %*	*52-141*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/28/2010 19:50

J1B5B0

1006082-06 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Polychlorinated Biphenyls by SW846 8082								
Aroclor 1016	13.5 U	13.5	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1221	13.5 U	13.5	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1232	13.5 U	13.5	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1242	13.5 U	13.5	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1248	13.5 U	13.5	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1254	13.5 U	13.5	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1260	13.5 U	13.5	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Surrogate: Decachlorobiphenyl	*92 %*	*43-144*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*
Surrogate: Tetrachloro-meta-xylene	*92 %*	*52-141*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*

264 Welsh Pool Road
Exton, PA 19341
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Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/28/2010 19:50

J1B5B1

1006082-07 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Polychlorinated Biphenyls by SW846 8082								
Aroclor 1016	13.7 U	13.7	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1221	13.7 U	13.7	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1232	13.7 U	13.7	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1242	13.7 U	13.7	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1248	13.7 U	13.7	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1254	13.7 U	13.7	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1260	13.7 U	13.7	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Surrogate: Decachlorobiphenyl	*94 %*	*43-144*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*
Surrogate: Tetrachloro-meta-xylene	*90 %*	*52-141*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*

264 Welsh Pool Road
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Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/28/2010 19:50

J1B5B2

1006082-08 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Polychlorinated Biphenyls by SW846 8082								
Aroclor 1016	13.0 U	13.0	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1221	13.0 U	13.0	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1232	13.0 U	13.0	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1242	13.0 U	13.0	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1248	13.0 U	13.0	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1254	13.0 U	13.0	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1260	13.0 U	13.0	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Surrogate: Decachlorobiphenyl	*89 %*	*43-144*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*
Surrogate: Tetrachloro-meta-xylene	*88 %*	*52-141*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*

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Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/28/2010 19:50

J1B5B3

1006082-09 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Polychlorinated Biphenyls by SW846 8082								
Aroclor 1016	13.1 U	13.1	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1221	13.1 U	13.1	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1232	13.1 U	13.1	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1242	13.1 U	13.1	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1248	13.1 U	13.1	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1254	13.1 U	13.1	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1260	13.1 U	13.1	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Surrogate: Decachlorobiphenyl	*90 %*	*43-144*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*
Surrogate: Tetrachloro-meta-xylene	*93 %*	*52-141*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-107 Project Number: K2099 Project Manager: Joan Kessner	**Reported:** 06/28/2010 19:50

J1B5B4

1006082-10 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Polychlorinated Biphenyls by SW846 8082								
Aroclor 1016	13.3 U	13.3	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1221	13.3 U	13.3	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1232	13.3 U	13.3	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1242	13.3 U	13.3	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1248	13.3 U	13.3	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1254	13.3 U	13.3	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1260	13.3 U	13.3	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Surrogate: Decachlorobiphenyl	*94 %*	*43-144*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*
Surrogate: Tetrachloro-meta-xylene	*92 %*	*52-141*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*

264 Welsh Pool Road
Exton, PA 19341
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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/28/2010 19:50

J1B5B5

1006082-11 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
			Lionville Laboratory					
Polychlorinated Biphenyls by SW846 8082								
Aroclor 1016	13.6 U	13.6	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1221	13.6 U	13.6	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1232	13.6 U	13.6	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1242	13.6 U	13.6	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1248	13.6 U	13.6	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1254	13.6 U	13.6	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1260	13.6 U	13.6	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Surrogate: Decachlorobiphenyl	*90 %*	*43-144*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*
Surrogate: Tetrachloro-meta-xylene	*89 %*	*52-141*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*

264 Welsh Pool Road
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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/28/2010 19:50

J1B5B6

1006082-12 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Polychlorinated Biphenyls by SW846 8082								
Aroclor 1016	13.2 U	13.2	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1221	13.2 U	13.2	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1232	13.2 U	13.2	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1242	13.2 U	13.2	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1248	13.2 U	13.2	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1254	13.2 U	13.2	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1260	13.2 U	13.2	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Surrogate: Decachlorobiphenyl	*89 %*	*43-144*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*
Surrogate: Tetrachloro-meta-xylene	*88 %*	*52-141*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*

264 Welsh Pool Road
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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/28/2010 19:50

J1B5B7

1006082-13 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Polychlorinated Biphenyls by SW846 8082								
Aroclor 1016	13.1 U	13.1	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1221	13.1 U	13.1	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1232	13.1 U	13.1	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1242	13.1 U	13.1	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1248	13.1 U	13.1	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1254	13.1 U	13.1	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Aroclor 1260	13.1 U	13.1	ug/kg dry	1	L006197	06/17/2010	06/23/2010	8082
Surrogate: Decachlorobiphenyl	*93 %*	*43-144*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*
Surrogate: Tetrachloro-meta-xylene	*90 %*	*52-141*			*L006197*	*06/17/2010*	*06/23/2010*	*8082*

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-107 Project Number: K2099 Project Manager: Joan Kessner	**Reported:** 06/28/2010 19:50

Polychlorinated Biphenyls by SW846 8082 - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L006197 - SW 3540C									
Blank (L006197-BLK2)			Prepared: 06/17/2010 Analyzed: 06/23/2010						
Aroclor 1016	13.2 U	13.2	ug/kg wet						
Aroclor 1221	13.2 U	13.2	ug/kg wet						
Aroclor 1232	13.2 U	13.2	ug/kg wet						
Aroclor 1242	13.2 U	13.2	ug/kg wet						
Aroclor 1248	13.2 U	13.2	ug/kg wet						
Aroclor 1254	13.2 U	13.2	ug/kg wet						
Aroclor 1260	13.2 U	13.2	ug/kg wet						
Surrogate: Decachlorobiphenyl	*28.8*		*ug/kg wet*	*33.036*		*87*	*43-144*		
Surrogate: Tetrachloro-meta-xylene	*27.5*		*ug/kg wet*	*33.039*		*83*	*52-141*		
LCS (L006197-BS2)			Prepared: 06/17/2010 Analyzed: 06/23/2010						
Aroclor 1016	147	13.2	ug/kg wet	165.62		89	50-138		
Aroclor 1260	173	13.2	ug/kg wet	165.62		104	50-148		
Surrogate: Decachlorobiphenyl	*31.4*		*ug/kg wet*	*33.124*		*95*	*43-144*		
Surrogate: Tetrachloro-meta-xylene	*29.7*		*ug/kg wet*	*33.127*		*90*	*52-141*		
Matrix Spike (L006197-MS2)		**Source: 1006082-01**	Prepared: 06/17/2010 Analyzed: 06/23/2010						
Aroclor 1016	142	13.5	ug/kg dry	169.18	13.2 U	84	50-138		
Aroclor 1260	173	13.5	ug/kg dry	169.18	13.2 U	102	50-148		
Surrogate: Decachlorobiphenyl	*31.6*		*ug/kg dry*	*33.836*		*94*	*43-144*		
Surrogate: Tetrachloro-meta-xylene	*29.9*		*ug/kg dry*	*33.839*		*88*	*52-141*		
Matrix Spike Dup (L006197-MSD2)		**Source: 1006082-01**	Prepared: 06/17/2010 Analyzed: 06/23/2010						
Aroclor 1016	143	13.6	ug/kg dry	170.74	13.2 U	84	50-138	0.07	40
Aroclor 1260	176	13.6	ug/kg dry	170.74	13.2 U	103	50-148	0.6	40
Surrogate: Decachlorobiphenyl	*31.5*		*ug/kg dry*	*34.148*		*92*	*43-144*		
Surrogate: Tetrachloro-meta-xylene	*29.5*		*ug/kg dry*	*34.151*		*86*	*52-141*		

PREPARATION BENCH SHEET

L006197

Lionville Laboratory

Printed: 6/23/2010 9:04:26AM

Matrix: Solid **Prepared using: GC - SW 3540C** **Surrogate used: 1001052**

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Client	Extraction Comments
1006082-01	8081A TCL Pesticides	06/17/2010 12:35	31.24	10				250	WC-Hanford, Inc.	
1006082-01	8082 PCBs	06/17/2010 12:35	31.24	10				250	WC-Hanford, Inc.	
1006082-02	8081A TCL Pesticides	06/17/2010 12:35	30.45	10				250	WC-Hanford, Inc.	
1006082-02	8082 PCBs	06/17/2010 12:35	30.45	10				250	WC-Hanford, Inc.	
1006082-03	8081A TCL Pesticides	06/17/2010 12:35	31	10				250	WC-Hanford, Inc.	
1006082-03	8082 PCBs	06/17/2010 12:35	31	10				250	WC-Hanford, Inc.	
1006082-04	8081A TCL Pesticides	06/17/2010 12:35	30.24	10				250	WC-Hanford, Inc.	
1006082-04	8082 PCBs	06/17/2010 12:35	30.24	10				250	WC-Hanford, Inc.	
1006082-05	8081A TCL Pesticides	06/17/2010 12:35	30	10				250	WC-Hanford, Inc.	
1006082-05	8082 PCBs	06/17/2010 12:35	30	10				250	WC-Hanford, Inc.	
1006082-06	8081A TCL Pesticides	06/17/2010 12:35	30.84	10				250	WC-Hanford, Inc.	
1006082-06	8082 PCBs	06/17/2010 12:35	30.84	10				250	WC-Hanford, Inc.	
1006082-07	8081A TCL Pesticides	06/17/2010 12:35	30.09	10				250	WC-Hanford, Inc.	
1006082-07	8082 PCBs	06/17/2010 12:35	30.09	10				250	WC-Hanford, Inc.	
1006082-08	8081A TCL Pesticides	06/17/2010 12:35	31.02	10				250	WC-Hanford, Inc.	
1006082-08	8082 PCBs	06/17/2010 12:35	31.02	10				250	WC-Hanford, Inc.	
1006082-09	8081A TCL Pesticides	06/17/2010 12:35	30.72	10				250	WC-Hanford, Inc.	
1006082-09	8082 PCBs	06/17/2010 12:35	30.72	10				250	WC-Hanford, Inc.	
1006082-10	8081A TCL Pesticides	06/17/2010 12:35	30.46	10				250	WC-Hanford, Inc.	
1006082-10	8082 PCBs	06/17/2010 12:35	30.46	10				250	WC-Hanford, Inc.	

Cu cleanup (R124021) SZ 6/23/10 9:30

Benjamin Harris 6/23/10 9:05 — Extracts Relinquished By — Date

SZak 6/23/10 9:15 — Extracts Received By — Date

PREPARATION BENCH SHEET

L006197

Lionville Laboratory

Printed: 6/23/2010 9:04:26AM

Matrix: Solid **Prepared using: GC - SW 3540C** **Surrogate used: 1001052**

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Client	Extraction Comments
1006082-11	8081A TCL Pesticides	06/17/2010 12:35	30.37	10				250	WC-Hanford, Inc.	
1006082-11	8082 PCBs	06/17/2010 12:35	30.37	10				250	WC-Hanford, Inc.	
1006082-12	8081A TCL Pesticides	06/17/2010 12:35	30.38	10				250	WC-Hanford, Inc.	
1006082-12	8082 PCBs	06/17/2010 12:35	30.38	10				250	WC-Hanford, Inc.	
1006082-13	8081A TCL Pesticides	06/17/2010 12:35	30.67	10				250	WC-Hanford, Inc.	
1006082-13	8082 PCBs	06/17/2010 12:35	30.67	10				250	WC-Hanford, Inc.	
L006197-BLK1	QC	06/17/2010 12:35	30.27	10				250		Pest
L006197-BLK2	QC	06/17/2010 12:35	30.27	10				250		PCB
L006197-BS1	QC	06/17/2010 12:35	30.02	10	1001086		250	250		Pest
L006197-BS2	QC	06/17/2010 12:35	30.19	10	1000526		250	250		PCB
L006197-MS1	QC	06/17/2010 12:35	30.48	10	1001086	1006082-01	250	250		Pest
L006197-MS2	QC	06/17/2010 12:35	30.65	10	1000526	1006082-01	250	250		PCB
L006197-MSD1	QC	06/17/2010 12:35	31.07	10	1001086	1006082-01	250	250		Pest
L006197-MSD2	QC	06/17/2010 12:35	30.37	10	1000526	1006082-01	250	250		PCB

Benjamin Morris 6/23/10 9:05 — Extracts Relinquished By — Date

S Shah 6/23/10 9:15 — Extracts Received By — Date

Lionville Laboratory Use Only: 1006 082

Custody Transfer Record/Lab Work Request

Page 1 of 2

LVLI Lionville Laboratory Inc.

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Client: WCHANFORD SAF#RC-107

Est. Final Proj. Sampling Date:

Project#:

Project Contact/Phone#:

Lionville Laboratory Project Manager: O. JOHNSON

QC: SW Del: SW TAT: 21 Days

Date Rec'd: 6/17/10 Date Due: 7-8-10

	A	B	C		D	E		F				G			
Refrigerator #	VOA	2	2		2	2		2				2			
#/Type Container (~~Liquid~~ / Solid)	1AG	1AG	1AG		1AG	1AG		1				1			
Volume	60	120	60		120	120		125				125			
Preservatives	—	—	—		—	—		—				—			
ANALYSES REQUESTED	ORGANIC: VOA	BNA	~~Pest~~ PCB	Herb	PAHs	Pest		INORG: Metal	CN	Anions	CrH	NO2/NO3			

MATRIX CODES:	
S-	Soil
SE-	Sediment
SO-	Solid
SL-	Sludge
W-	Water
O-	Oil
A-	Air
DS-	Drum Solids
DL-	Drum Liquids
L-	EP/TCLP Leachate
WI-	Wipe
X-	Other
F-	Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	VOA, TCL	BNA, TCL	PCB		8310	Pest		Metals		Anions	CrH	NO2/NO3			
01	JIB 595			Soil	6/15/10	1105	X	X	X		X	X		X		X	X	X			
02	96					1125	X	X	X		X	X		X		X	X	X			
03	97					1145	X	X	X		X	X		X		X	X	X			
04	98					1140	X	X	X		X	X		X		X	X	X			
05	99					1245	X	X	X		X	X		X		X	X	X			
06	B0					1305	X	X	X		X	X		X		X	X	X			
07	B1					1325	X	X	X		X	X		X		X	X	X			
08	B2					1320	X	X	X		X	X		X		X	X	X			
09	B3					1330	X	X	X		X	X		X		X	X	X			
10	B4					1340	X	X	X		X	X		X		X	X	X			

Special Instructions: MATRIX QC
Non Rad
SD.

Special Instructions:
1.
2.
3.
4.
5.
6.

METHS = HSL + B, Mo, Sr (NO TL)

Relinquished by	Received by	Date	Time
Fed Ex	[signature]	6/17/10	1020

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time

Lionville Laboratory Use Only

1006082

Custody Transfer Record/Lab Work Request

Page 2 of 2

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

LVLI Lionville Laboratory Inc.

Client: WC Hanford SAF# RC-107

Est. Final Proj. Sampling Date: See PM

Project#:

Project Contact/Phone#:

Lionville Laboratory Project Manager: O. JOHNSON

QC: SN Del: SM TAT: 21 Days

Date Rec'd: 6-17-10 Date Due: 7-8-10

Refrigerator #		10A	2	2		2	2		2			1	2			
#/Type Container	~~Liquid~~ Solid	1AG	1AG	1AG		1AG	1AG		1			1	1			
Volume		60	120	60		120	120		125			1	125			
Preservatives												1				
ANALYSES REQUESTED →		ORGANIC							INORG							
		VOA	BNA	~~Pest~~ PCB	~~Herb~~	PAHs	PST		Metal Hg		IC Anions	CRT6	NO2 NO3			

Lionville Laboratory Use Only

MATRIX CODES:
S- Soil
SE- Sediment
SO- Solid
SL- Sludge
W- Water
O- Oil
A- Air
DS- Drum Solids
DL- Drum Liquids
L- EP/TCLP Leachate
WI- Wipe
X- Other
F- Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	VOA	BNA	PCB	Herb	PAHs	PST		Metal Hg		IC Anions	CRT6	NO2 NO3			
11	JIB5B5			SOIL	6-15-10	1355	X	X	X		X	X		X		X	X	X			
12	B6					1400	X	X	X		X	X		X		X	X	X			
13	B7					1145	X	X	X		X	X		X		X	X	X			
14	D3					0845	X	VH 6/17/10													

Special Instructions:

Special Instructions:

1.
2.
3.
4.
5.
6.

Relinquished by	Received by	Date	Time
Fed Ex	[illegible]	6/17/10	1020

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time

1286666921

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-035	Page 1 of 3

Collector: J. Sellers	Company Contact: Don Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Drain Field Excavation Area		SAF No.: RC-107
Ice Chest No.: WCH-08-034	Field Logbook No.: EL 1627-4	COA: 0607H32000	Method of Shipment: Fed Ex
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: A 100 220		Bill of Lading/Air Bill No.: See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	
Type of Container	G/P	G/P	G/P	G/P	aG	aG	aG	aG	aG	
No. of Container(s)	1	0	0	1	1	1	1	1	1	
Volume	125mL	60mL	60mL	125mL	60mL	120mL	60mL	120mL	120mL	
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	NO2/NO3 - 353.2	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081	

Sample No.	Matrix *	Sample Date	Sample Time										
J1B595	SOIL	6-15-10	1105	X	X	X	X	X	X	X	X	X	
J1B596	SOIL	6-15-10	1125	X	X	X	X	X	X	X	X	X	
J1B597	SOIL	6-15-10	1145	X	X	X	X	X	X	X	X	X	
J1B598	SOIL	6-15-10	1140	X	X	X	X	X	X	X	X	X	
J1B599	SOIL	6-15-10	1245	X	X	X	X	X	X	X	X	X	

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J. Sellers Josh Sellers	6-15-10 1440	Sterling Howell	6-15-10 1440
Sterling Howell	6-15-10 1645	Daniel Hewan	6-15-10 / 1645
Daniel Hewan (WCH)	6-16-10 / 1000	FED EX	
FedEx	6-17-10 1020	VICTOR HERNANDEZ	6-17-10 1020

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)
(2) IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}

REVIEWED BY JEB
DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-035	Page 2 of 3

Collector J. Sellers	Company Contact Don Woolery	Telephone No. 509-431-0448	Project Coordinator KESSNER, JH	Price Code 8L	Data Turnaround 21 Days
Project Designation 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location 1607-H-3 Drain Field Excavation Area		SAF No. RC-107		
Ice Chest No. WCH-08-034	Field Logbook No. EL 1627-4	COA 0607H32000	Method of Shipment Fed Ex		
Shipped To EBERLINE SERVICES / LIONVILLE	Offsite Property No. A100220		Bill of Lading/Air Bill No. See OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	
Type of Container	G/P	G/P	G/P	G/P	aG	aG	aG	aG	aG	
No. of Container(s)	1	0	0	1	1	1	1	1	1	
Volume	125mL	60mL	60mL	125mL	60mL	120mL	60mL	120mL	120mL	
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	NO2/NO3 - 353.2	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081	

Sample No.	Matrix *	Sample Date	Sample Time										
J1B5B0	SOIL	6-15-10	1305	X	X	X	X	X	X	X	X	X	
J1B5B1	SOIL	6-15-10	1325	X	X	X	X	X	X	X	X	X	
J1B5B2	SOIL	6-15-10	1320	X	X	X	X	X	X	X	X	X	
J1B5B3	SOIL	6-15-10	1330	X	X	X	X	X	X	X	X	X	
J1B5B4	SOIL	6-15-10	1340	X	X	X	X	X	X	X	X	X	

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J. Sellers Josh Sellers	6-15-10 1440	Starling Howell	6-15-10 1440
Starling Howell	6-15-10 1645	Daniel Herrera	6-15-10/1645
Daniel Herrera	WCH 6-16-10/1000	FED EX	
	6-17-10 1020		6-17-10 1020

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc); Mercury - 7471 - (CV)
(2) IC Anions - 300.0 (Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate)

REVIEWED BY JEB DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-035	Page 3 of 3

Collector: J. Sellers	Company Contact: Don Woolery Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH	Price Code: 8L Data Turnaround: 21 Days
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Drain Field Excavation Area	SAF No.: RC-107	
Ice Chest No.: WCH-08-034	Field Logbook No.: EL 1627-4 COA: 0607H32000	Method of Shipment: Fed Ex	
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: A100220	Bill of Lading/Air Bill No.: See OSPC	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C		
Type of Container	G/P	G/P	G/P	G/P	aG	aG	aG	aG	aG		
No. of Container(s)	1	0	0	1	1	1	1	1	1		
Volume	125mL	60mL	60mL	125mL	60mL	120mL	60mL	120mL	120mL		
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	NO2/NO3 - 353.2	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081		
Sample No. / Matrix * / Sample Date / Sample Time											
J1B5B5 / SOIL / 6-15-10 / 1355	X	X	X	X	X	X	X	X	X		
J1B5B6 / SOIL / 6-15-10 / 1400	X	X	X	X	X	X	X	X	X		
J1B5B7 / SOIL / 6-15-10 / 1145	X	X	X	X	X	X	X	X	X		

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J. Sellers Josh Sellers	6-15-10 1440	Sterling Howell	6-15-10 1440
Sterling Howell	6-15-10 1645	Daniel Herrera	6-15-10 1645
Daniel Herrera	WCH 6-16-10 1000	FED EX	
FED EX	6-17-10 1020	VICTOR HERNANDEZ	6-17-10 1020
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc); Mercury - 7471 - (CV)
(2) IC Anions - 300.0 (Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate)

REVIEWED BY JEB
DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-037	Page 1 of 1

Collector: J. Sellers	Company Contact: Don Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Trip Blanks		SAF No.: RC-107
Ice Chest No.: WCH-08-034	Field Logbook No.: EL 1627-4	COA: 0607H32000	Method of Shipment: Fed Ex
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: A100220		Bill of Lading/Air Bill No.: See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	Cool 4C											
Type of Container	aG											
No. of Container(s)	1											
Volume	60mL											
SAMPLE ANALYSIS	VOA - 8260A (TCL)											

Sample No.	Matrix *	Sample Date	Sample Time										
~~J1B5D2~~	~~SOIL~~	6/15/10											
J1B5D3	SOIL	6-15-10	~~0840~~ 0845 ~~6-15-10~~	X									

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS	Matrix *
Relinquished By/Removed From: J. Sellers, Date/Time: 6-15-10 1440	Received By/Stored In: Sterling Hovell, Date/Time: 6-15-10 1440		S=Soil SE=Sediment SO=Solid SI=Sludge W = Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue WI=Wipe L=Liquid V=Vegetation X=Other
Relinquished By/Removed From: Sterling Hovell, Date/Time: 6-15-10 1645	Received By/Stored In: David Herrera, Date/Time: 6-15-10 / 1645		
Relinquished By/Removed From: David Herrera, Date/Time: WCH 6-16-10 / 1000	Received By/Stored In: FED EX, Date/Time:		
Relinquished By/Removed From: [illegible], Date/Time: 6-17-10 1010	Received By/Stored In: VICTOR HERNANDEZ, Date/Time: ~~6-17-10~~ 1020 6-17-10		
Relinquished By/Removed From: Date/Time	Received By/Stored In: Date/Time		
Relinquished By/Removed From: Date/Time	Received By/Stored In: Date/Time		

REVIEWED BY JEB
DATE 6-16-10

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Lionville Laboratory

SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: WCH Hanford
Project/SAF/SOW/Release #: RC-107

Date: 6/17/10

LvL Batch #: 1006082

Sample Custodian: [illegible]

NOTE. EXPLAIN ALL DISCREPANCIES

1. Samples Hand Delivered or Shipped?	Carrier FED EX		Airbill # 7936 4256 7389 7437 7470
2. Custody Seals on coolers or shipping containers intact, signed & dated?	☑ Yes	☐ No	☐ No Seals
3. Outside of coolers or shipping containers are free from damage?	☑ Yes	☐ No	Comments: Cooler outside Cracked inside
4. All expected paperwork received (coc & other client specific information) sealed in plactic bag and easily accessible?	☑ Yes	☐ No	
5. Samples received cooled or ambient?	Temp 2.1 2.2 3.2	°C	Cooler # WCH-08-034 025 + BHI-94
How was the temperature taken?	☑ IR	☐ Temp. Blank	☐ Other (Specify):
Is the Temp. Criteria met for these samples? (Hg in soils @ 4°C)	☑ Yes	☐ No	
6. Custody seals on sample containers intact, signed and dated?	☑ Yes	☐ No	☐ No Seals
7. COC (Client & LvL) signed & dated?	☑ Yes	☐ No	
8. Sample containers are intact?	☑ Yes	☐ No	
9. All samples on COC received?	☑ Yes	☐ No	
All samples received on COC?	☑ Yes	☐ No	
10. All sample label information matches COC?	☑ Yes	☐ No	
11. Samples properly preserved? (If #5 is no. then this is no.)	☑ Yes	☐ No	
12. Samples received within hold times?	☑ Yes	☐ No	
Short holds taken to wet lab?	☐ Yes	☐ No	☑ N/A
13. VOA, TOC, TOX free of headspace?	☑ Yes	☐ No	☐ N/A
14. QC stickers placed on bottles designated by client?	☐ Yes	☐ No	☑ N/A
15. Shipment meets LvL Sample Acceptance Policy? (Identify all bottles that do not meet the policy, which is on the reverse of this page.)	☑ Yes	☐ No	
16. Project Manager contacted concerning any discrepancies?	☐ Yes	☐ No	☑ N/A
Person Contacted _____		Date _____	

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/23/2010 21:58

Analytical Report for Polynuclear Aromatic Compounds by SW846 8310

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
J1B595	1006082-01	Soil	06/15/2010 11:05	06/17/2010 10:20
J1B596	1006082-02	Soil	06/15/2010 11:25	06/17/2010 10:20
J1B597	1006082-03	Soil	06/15/2010 11:45	06/17/2010 10:20
J1B598	1006082-04	Soil	06/15/2010 11:40	06/17/2010 10:20
J1B599	1006082-05	Soil	06/15/2010 12:45	06/17/2010 10:20
J1B5B0	1006082-06	Soil	06/15/2010 13:05	06/17/2010 10:20
J1B5B1	1006082-07	Soil	06/15/2010 13:25	06/17/2010 10:20
J1B5B2	1006082-08	Soil	06/15/2010 13:20	06/17/2010 10:20
J1B5B3	1006082-09	Soil	06/15/2010 13:30	06/17/2010 10:20
J1B5B4	1006082-10	Soil	06/15/2010 13:40	06/17/2010 10:20
J1B5B5	1006082-11	Soil	06/15/2010 13:55	06/17/2010 10:20
J1B5B6	1006082-12	Soil	06/15/2010 14:00	06/17/2010 10:20
J1B5B7	1006082-13	Soil	06/15/2010 11:45	06/17/2010 10:20

LIONVILLE LABORATORY
A division of Eberline Analytical Corporation

264 Welsh Pool Road
Exton, Pennsylvania 19341
Phone (610) 280-3000
Fax (610) 280-3041

Case Narrative

Client: WC-HANFORD RC-107 K2099
LVL #: 1006082

W.O. #: 60049-001-001-0001-00
Date Received: 06-17-2010

POLYNUCLEAR AROMATIC HYDROCARBONS (PAH)

Thirteen (13) soil samples were collected on 06-15-2010.

The samples and associated QC samples were extracted 06-17-2010 and analyzed 06-21,22-2010 according to criteria set forth in Lionville Laboratory SOPs. The extraction procedure was based on SW846 Method 3540C and the analysis procedure was based on SW846 Method 8310.

Lionville Laboratory (LvL) is NELAP accredited by the State of Pennsylvania. For a complete listing of accrediting authorities and the corresponding analytes/methods, please contact your Project Manager. LvL certifies that all test results meet the requirements of NELAC with any exception noted in the following statements:

1. The results presented in this report are derived from samples that met LvL's sample acceptance policy.
2. All required holding times for extraction and analysis have been met.
3. All surrogate recoveries were within acceptance criteria.
4. The method blank was below the reporting limits for all target compounds.
5. All blank spike recoveries were within acceptance criteria.
6. All matrix spike recoveries were within acceptance criteria.
7. The samples were reported on a dry weight basis.
8. The initial calibrations associated with this data set were within acceptance criteria.
9. All continuing calibration standards analyzed prior to sample extracts were within acceptance criteria.
10. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard-copy data package has been authorized by the laboratory manager or a designee as verified by the following signature.

Iain Daniels
LvL Laboratory Manager

7/1/10
Date

r:\group\data\2010\pah 8310\wc-hanford\1006-082cs2.doc
The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 26 pages.

GLOSSARY OF DATA

DATA QUALIFIERS

U	=	Indicates that the compound was analyzed for but not detected. The minimum detection limit for the sample (not the method detection limit) is reported with the U (e.g., 10U).
J	=	Indicates an estimated value. This flag is used in cases where a target analyte is detected at a level less than the lower quantification level. If the limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.
B	=	This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination.
E	=	Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
I	=	Interference.
. I	=	Indicates an interference on one analytical column only. Result is reported from remaining analytical column.
P	=	This flag is used for a dual column analysis (i.e. pesticides/PCB/herbicides) when there is greater than 40% difference for detected concentrations between the two GC columns; the lower of the two values is reported on Form 1 and flagged with a "P".
D	=	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
C	=	This flag applies to a compound that has been confirmed by GC/MS.

ABBREVIATIONS

BS	=	Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.
BSD	=	Indicates blank spike duplicate.
MS	=	Indicates matrix spike.
MSD	=	Indicates matrix spike duplicate.
DL	=	Indicates that recoveries were not obtained because the extract had to be diluted for analysis.
NA	=	Not Applicable.
DF	=	Dilution Factor.
NR	=	Not Required.
NS	=	Not Spiked.
SP	=	Indicates Spiked Compound.
NPM	=	No pattern match for multi-component target analytes.

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	06/23/2010 21:58

J1B595

1006082-01 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Polynuclear Aromatic Compounds by SW846 8310								
Naphthalene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Acenaphthylene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Acenaphthene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Fluorene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Phenanthrene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Anthracene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Fluoranthene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Indeno[1,2,3-cd]pyrene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Pyrene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benz[a]anthracene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Chrysene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[b] fluoranthene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[k] fluoranthene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[a] pyrene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Dibenz[a,h]anthracene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[g,h,i] perylene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Surrogate: Triphenylene	*97 %*	*68-129*			*L006198*	*06/17/2010*	*06/21/2010*	*8310*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/23/2010 21:58

J1B596

1006082-02 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Polynuclear Aromatic Compounds by SW846 8310								
Naphthalene	3.22 U	3.22	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Acenaphthylene	3.22 U	3.22	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Acenaphthene	3.22 U	3.22	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Fluorene	3.22 U	3.22	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Phenanthrene	3.22 U	3.22	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Anthracene	3.22 U	3.22	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Fluoranthene	3.22 U	3.22	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Indeno[1,2,3-cd]pyrene	3.22 U	3.22	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Pyrene	3.22 U	3.22	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benz[a]anthracene	3.22 U	3.22	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Chrysene	3.22 U	3.22	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[b] fluoranthene	3.22 U	3.22	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[k] fluoranthene	3.22 U	3.22	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[a] pyrene	3.22 U	3.22	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Dibenz[a,h]anthracene	3.22 U	3.22	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[g,h,i] perylene	3.22 U	3.22	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Surrogate: Triphenylene	*96 %*	*68-129*			*L006198*	*06/17/2010*	*06/21/2010*	*8310*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/23/2010 21:58

J1B597

1006082-03 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Polynuclear Aromatic Compounds by SW846 8310								
Naphthalene	**7.58**	3.26	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Acenaphthylene	3.26 U	3.26	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Acenaphthene	3.26 U	3.26	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Fluorene	3.26 U	3.26	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Phenanthrene	3.26 U	3.26	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Anthracene	3.26 U	3.26	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Fluoranthene	3.26 U	3.26	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Indeno[1,2,3-cd]pyrene	3.26 U	3.26	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Pyrene	3.26 U	3.26	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benz[a]anthracene	3.26 U	3.26	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Chrysene	3.26 U	3.26	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[b] fluoranthene	3.26 U	3.26	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[k] fluoranthene	3.26 U	3.26	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[a] pyrene	3.26 U	3.26	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Dibenz[a,h]anthracene	3.26 U	3.26	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[g,h,i] perylene	3.26 U	3.26	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Surrogate: Triphenylene	*96 %*	*68-129*			*L006198*	*06/17/2010*	*06/21/2010*	*8310*

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WC-Hanford, Inc.	Project: RC-107	
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J1B598

1006082-04 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Polynuclear Aromatic Compounds by SW846 8310								
Naphthalene	3.33 U	3.33	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Acenaphthylene	3.33 U	3.33	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Acenaphthene	3.33 U	3.33	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Fluorene	3.33 U	3.33	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Phenanthrene	3.33 U	3.33	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Anthracene	3.33 U	3.33	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Fluoranthene	3.33 U	3.33	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Indeno[1,2,3-cd]pyrene	3.33 U	3.33	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Pyrene	3.33 U	3.33	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benz[a]anthracene	3.33 U	3.33	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Chrysene	3.33 U	3.33	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[b] fluoranthene	3.33 U	3.33	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[k] fluoranthene	3.33 U	3.33	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[a] pyrene	3.33 U	3.33	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Dibenz[a,h]anthracene	3.33 U	3.33	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[g,h,i] perylene	3.33 U	3.33	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Surrogate: Triphenylene	*97 %*	*68-129*			*L006198*	*06/17/2010*	*06/21/2010*	*8310*

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J1B599

1006082-05 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Polynuclear Aromatic Compounds by SW846 8310								
Naphthalene	3.28 U	3.28	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Acenaphthylene	3.28 U	3.28	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Acenaphthene	**10.3**	3.28	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Fluorene	3.28 U	3.28	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Phenanthrene	3.28 U	3.28	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Anthracene	3.28 U	3.28	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Fluoranthene	3.28 U	3.28	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Indeno[1,2,3-cd]pyrene	3.28 U	3.28	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Pyrene	3.28 U	3.28	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benz[a]anthracene	3.28 U	3.28	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Chrysene	3.28 U	3.28	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[b] fluoranthene	3.28 U	3.28	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[k] fluoranthene	3.28 U	3.28	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[a] pyrene	3.28 U	3.28	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Dibenz[a,h]anthracene	3.28 U	3.28	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[g,h,i] perylene	3.28 U	3.28	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Surrogate: Triphenylene	*95 %*	*68-129*			*L006198*	*06/17/2010*	*06/21/2010*	*8310*

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J1B5B0

1006082-06 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Polynuclear Aromatic Compounds by SW846 8310								
Naphthalene	3.42 U	3.42	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Acenaphthylene	3.42 U	3.42	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Acenaphthene	3.42 U	3.42	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Fluorene	3.42 U	3.42	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Phenanthrene	3.42 U	3.42	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Anthracene	3.42 U	3.42	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Fluoranthene	3.42 U	3.42	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Indeno[1,2,3-cd]pyrene	3.42 U	3.42	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Pyrene	3.42 U	3.42	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benz[a]anthracene	3.42 U	3.42	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Chrysene	3.42 U	3.42	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[b] fluoranthene	3.42 U	3.42	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[k] fluoranthene	3.42 U	3.42	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[a] pyrene	3.42 U	3.42	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Dibenz[a,h]anthracene	3.42 U	3.42	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[g,h,i] perylene	3.42 U	3.42	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Surrogate: Triphenylene	*98 %*	*68-129*			*L006198*	*06/17/2010*	*06/21/2010*	*8310*

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WC-Hanford, Inc.	Project: RC-107	
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Richland WA, 99354	Project Manager: Joan Kessner	06/23/2010 21:58

J1B5B1

1006082-07 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Polynuclear Aromatic Compounds by SW846 8310								
Naphthalene	3.43 U	3.43	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Acenaphthylene	3.43 U	3.43	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Acenaphthene	3.43 U	3.43	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Fluorene	3.43 U	3.43	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Phenanthrene	3.43 U	3.43	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Anthracene	3.43 U	3.43	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Fluoranthene	3.43 U	3.43	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Indeno[1,2,3-cd]pyrene	3.43 U	3.43	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Pyrene	3.43 U	3.43	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benz[a]anthracene	3.43 U	3.43	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Chrysene	3.43 U	3.43	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[b] fluoranthene	3.43 U	3.43	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[k] fluoranthene	3.43 U	3.43	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[a] pyrene	3.43 U	3.43	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Dibenz[a,h]anthracene	3.43 U	3.43	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[g,h,i] perylene	3.43 U	3.43	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Surrogate: Triphenylene	*95 %*	*68-129*			*L006198*	*06/17/2010*	*06/21/2010*	*8310*

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WC-Hanford, Inc.	Project: RC-107	
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J1B5B2

1006082-08 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Polynuclear Aromatic Compounds by SW846 8310								
Naphthalene	3.29 U	3.29	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Acenaphthylene	3.29 U	3.29	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Acenaphthene	3.29 U	3.29	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Fluorene	3.29 U	3.29	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Phenanthrene	3.29 U	3.29	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Anthracene	3.29 U	3.29	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Fluoranthene	3.29 U	3.29	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Indeno[1,2,3-cd]pyrene	3.29 U	3.29	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Pyrene	3.29 U	3.29	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benz[a]anthracene	3.29 U	3.29	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Chrysene	3.29 U	3.29	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[b] fluoranthene	3.29 U	3.29	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[k] fluoranthene	3.29 U	3.29	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[a] pyrene	3.29 U	3.29	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Dibenz[a,h]anthracene	3.29 U	3.29	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[g,h,i] perylene	3.29 U	3.29	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Surrogate: Triphenylene	*99 %*	*68-129*			*L006198*	*06/17/2010*	*06/21/2010*	*8310*

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J1B5B3

1006082-09 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Polynuclear Aromatic Compounds by SW846 8310								
Naphthalene	3.34 U	3.34	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Acenaphthylene	3.34 U	3.34	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Acenaphthene	3.34 U	3.34	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Fluorene	3.34 U	3.34	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Phenanthrene	3.34 U	3.34	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Anthracene	3.34 U	3.34	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Fluoranthene	3.34 U	3.34	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Indeno[1,2,3-cd]pyrene	3.34 U	3.34	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Pyrene	3.34 U	3.34	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benz[a]anthracene	3.34 U	3.34	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Chrysene	3.34 U	3.34	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[b] fluoranthene	3.34 U	3.34	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[k] fluoranthene	3.34 U	3.34	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[a] pyrene	3.34 U	3.34	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Dibenz[a,h]anthracene	3.34 U	3.34	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Benzo[g,h,i] perylene	3.34 U	3.34	ug/kg dry	1	L006198	06/17/2010	06/21/2010	8310
Surrogate: Triphenylene	*90 %*	*68-129*			*L006198*	*06/17/2010*	*06/21/2010*	*8310*

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J1B5B4

1006082-10 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
			Lionville Laboratory					
Polynuclear Aromatic Compounds by SW846 8310								
Naphthalene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Acenaphthylene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Acenaphthene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Fluorene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Phenanthrene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Anthracene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Fluoranthene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Indeno[1,2,3-cd]pyrene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Pyrene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Benz[a]anthracene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Chrysene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Benzo[b] fluoranthene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Benzo[k] fluoranthene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Benzo[a] pyrene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Dibenz[a,h]anthracene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Benzo[g,h,i] perylene	3.36 U	3.36	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Surrogate: Triphenylene	*97 %*	*68-129*			*L006198*	*06/17/2010*	*06/22/2010*	*8310*

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	06/23/2010 21:58

J1B5B5

1006082-11 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
			Lionville Laboratory					
Polynuclear Aromatic Compounds by SW846 8310								
Naphthalene	3.38 U	3.38	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Acenaphthylene	3.38 U	3.38	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Acenaphthene	3.38 U	3.38	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Fluorene	3.38 U	3.38	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Phenanthrene	3.38 U	3.38	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Anthracene	3.38 U	3.38	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Fluoranthene	3.38 U	3.38	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Indeno[1,2,3-cd]pyrene	3.38 U	3.38	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Pyrene	3.38 U	3.38	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Benz[a]anthracene	3.38 U	3.38	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Chrysene	3.38 U	3.38	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Benzo[b] fluoranthene	3.38 U	3.38	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Benzo[k] fluoranthene	3.38 U	3.38	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Benzo[a] pyrene	3.38 U	3.38	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Dibenz[a,h]anthracene	3.38 U	3.38	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Benzo[g,h,i] perylene	3.38 U	3.38	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Surrogate: Triphenylene	*100 %*	*68-129*			*L006198*	*06/17/2010*	*06/22/2010*	*8310*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/23/2010 21:58

J1B5B6

1006082-12 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Polynuclear Aromatic Compounds by SW846 8310								
Naphthalene	3.25 U	3.25	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Acenaphthylene	3.25 U	3.25	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Acenaphthene	3.25 U	3.25	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Fluorene	3.25 U	3.25	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Phenanthrene	3.25 U	3.25	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Anthracene	3.25 U	3.25	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Fluoranthene	3.25 U	3.25	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Indeno[1,2,3-cd]pyrene	3.25 U	3.25	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Pyrene	3.25 U	3.25	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Benz[a]anthracene	3.25 U	3.25	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Chrysene	3.25 U	3.25	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Benzo[b] fluoranthene	3.25 U	3.25	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Benzo[k] fluoranthene	3.25 U	3.25	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Benzo[a] pyrene	3.25 U	3.25	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Dibenz[a,h]anthracene	3.25 U	3.25	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Benzo[g,h,i] perylene	3.25 U	3.25	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Surrogate: Triphenylene	*96 %*	*68-129*			*L006198*	*06/17/2010*	*06/22/2010*	*8310*

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Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/23/2010 21:58

J1B5B7

1006082-13 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
			Lionville Laboratory					
Polynuclear Aromatic Compounds by SW846 8310								
Naphthalene	**5.34**	3.35	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Acenaphthylene	3.35 U	3.35	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Acenaphthene	3.35 U	3.35	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Fluorene	3.35 U	3.35	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Phenanthrene	3.35 U	3.35	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Anthracene	3.35 U	3.35	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Fluoranthene	3.35 U	3.35	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Indeno[1,2,3-cd]pyrene	3.35 U	3.35	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Pyrene	3.35 U	3.35	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Benz[a]anthracene	3.35 U	3.35	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Chrysene	3.35 U	3.35	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Benzo[b] fluoranthene	3.35 U	3.35	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Benzo[k] fluoranthene	3.35 U	3.35	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Benzo[a] pyrene	3.35 U	3.35	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Dibenz[a,h]anthracene	3.35 U	3.35	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Benzo[g,h,i] perylene	3.35 U	3.35	ug/kg dry	1	L006198	06/17/2010	06/22/2010	8310
Surrogate: Triphenylene	*96 %*	*68-129*			*L006198*	*06/17/2010*	*06/22/2010*	*8310*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	06/23/2010 21:58

Polynuclear Aromatic Compounds by SW846 8310 - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L006198 - SW 3540C									
Blank (L006198-BLK1)			Prepared: 06/17/2010 Analyzed: 06/21/2010						
Naphthalene	3.31 U	3.31	ug/kg wet						
Acenaphthylene	3.31 U	3.31	ug/kg wet						
Acenaphthene	3.31 U	3.31	ug/kg wet						
Fluorene	3.31 U	3.31	ug/kg wet						
Phenanthrene	3.31 U	3.31	ug/kg wet						
Anthracene	3.31 U	3.31	ug/kg wet						
Fluoranthene	3.31 U	3.31	ug/kg wet						
Indeno[1,2,3-cd]pyrene	3.31 U	3.31	ug/kg wet						
Pyrene	3.31 U	3.31	ug/kg wet						
Benz[a]anthracene	3.31 U	3.31	ug/kg wet						
Chrysene	3.31 U	3.31	ug/kg wet						
Benzo[b] fluoranthene	3.31 U	3.31	ug/kg wet						
Benzo[k] fluoranthene	3.31 U	3.31	ug/kg wet						
Benzo[a] pyrene	3.31 U	3.31	ug/kg wet						
Dibenz[a,h]anthracene	3.31 U	3.31	ug/kg wet						
Benzo[g,h,i] perylene	3.31 U	3.31	ug/kg wet						
Surrogate: Triphenylene	*151*		*ug/kg wet*	*165.73*		*91*	*68-129*		
LCS (L006198-BS1)			Prepared: 06/17/2010 Analyzed: 06/21/2010						
Naphthalene	162	3.33	ug/kg wet	166.56		97	0-127		
Acenaphthylene	169	3.33	ug/kg wet	166.56		101	50-140		
Acenaphthene	153	3.33	ug/kg wet	166.56		92	17-139		
Fluorene	166	3.33	ug/kg wet	166.56		99	28-145		
Phenanthrene	162	3.33	ug/kg wet	166.56		98	30-152		
Anthracene	161	3.33	ug/kg wet	166.56		97	19-171		
Fluoranthene	168	3.33	ug/kg wet	166.56		101	34-159		
Indeno[1,2,3-cd]pyrene	173	3.33	ug/kg wet	166.56		104	31-156		
Pyrene	179	3.33	ug/kg wet	166.56		107	33-152		
Benz[a]anthracene	153	3.33	ug/kg wet	166.56		92	32-157		
Chrysene	175	3.33	ug/kg wet	166.56		105	31-159		
Benzo[b] fluoranthene	173	3.33	ug/kg wet	166.56		104	33-164		
Benzo[k] fluoranthene	173	3.33	ug/kg wet	166.56		104	28-161		
Benzo[a] pyrene	139	3.33	ug/kg wet	166.56		83	29-149		
Dibenz[a,h]anthracene	171	3.33	ug/kg wet	166.56		102	27-153		
Benzo[g,h,i] perylene	167	3.33	ug/kg wet	166.56		100	32-157		
Surrogate: Triphenylene	*157*		*ug/kg wet*	*166.56*		*94*	*68-129*		

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/23/2010 21:58

Polynuclear Aromatic Compounds by SW846 8310 - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L006198 - SW 3540C									
Matrix Spike (L006198-MS1)	**Source: 1006082-01**		Prepared: 06/17/2010 Analyzed: 06/21/2010						
Naphthalene	149	3.45	ug/kg dry	172.73	3.36 U	86	0-127		
Acenaphthylene	158	3.45	ug/kg dry	172.73	3.36 U	91	50-140		
Acenaphthene	173	3.45	ug/kg dry	172.73	3.36 U	100	17-139		
Fluorene	167	3.45	ug/kg dry	172.73	3.36 U	96	28-145		
Phenanthrene	166	3.45	ug/kg dry	172.73	3.36 U	96	30-152		
Anthracene	158	3.45	ug/kg dry	172.73	3.36 U	91	19-171		
Fluoranthene	188	3.45	ug/kg dry	172.73	3.36 U	109	34-159		
Indeno[1,2,3-cd]pyrene	194	3.45	ug/kg dry	172.73	3.36 U	112	31-156		
Pyrene	187	3.45	ug/kg dry	172.73	3.36 U	108	33-152		
Benz[a]anthracene	166	3.45	ug/kg dry	172.73	3.36 U	96	32-157		
Chrysene	197	3.45	ug/kg dry	172.73	3.36 U	114	31-159		
Benzo[b] fluoranthene	191	3.45	ug/kg dry	172.73	3.36 U	111	33-164		
Benzo[k] fluoranthene	191	3.45	ug/kg dry	172.73	3.36 U	111	28-161		
Benzo[a] pyrene	159	3.45	ug/kg dry	172.73	3.36 U	92	29-149		
Dibenz[a,h]anthracene	187	3.45	ug/kg dry	172.73	3.36 U	108	27-153		
Benzo[g,h,i] perylene	187	3.45	ug/kg dry	172.73	3.36 U	108	32-157		
Surrogate: Triphenylene	*174*		*ug/kg dry*	*172.73*		*101*	*68-129*		
Matrix Spike Dup (L006198-MSD1)	**Source: 1006082-01**		Prepared: 06/17/2010 Analyzed: 06/21/2010						
Naphthalene	139	3.45	ug/kg dry	172.79	3.36 U	80	0-127	7	40
Acenaphthylene	137	3.45	ug/kg dry	172.79	3.36 U	80	50-140	14	40
Acenaphthene	151	3.45	ug/kg dry	172.79	3.36 U	88	17-139	14	40
Fluorene	146	3.45	ug/kg dry	172.79	3.36 U	84	28-145	13	40
Phenanthrene	148	3.45	ug/kg dry	172.79	3.36 U	86	30-152	12	40
Anthracene	137	3.45	ug/kg dry	172.79	3.36 U	79	19-171	15	40
Fluoranthene	172	3.45	ug/kg dry	172.79	3.36 U	100	34-159	9	40
Indeno[1,2,3-cd]pyrene	177	3.45	ug/kg dry	172.79	3.36 U	103	31-156	9	40
Pyrene	174	3.45	ug/kg dry	172.79	3.36 U	101	33-152	7	40
Benz[a]anthracene	154	3.45	ug/kg dry	172.79	3.36 U	89	32-157	8	40
Chrysene	178	3.45	ug/kg dry	172.79	3.36 U	103	31-159	10	40
Benzo[b] fluoranthene	175	3.45	ug/kg dry	172.79	3.36 U	101	33-164	9	40
Benzo[k] fluoranthene	176	3.45	ug/kg dry	172.79	3.36 U	102	28-161	9	40
Benzo[a] pyrene	142	3.45	ug/kg dry	172.79	3.36 U	82	29-149	12	40
Dibenz[a,h]anthracene	172	3.45	ug/kg dry	172.79	3.36 U	99	27-153	9	40
Benzo[g,h,i] perylene	170	3.45	ug/kg dry	172.79	3.36 U	98	32-157	10	40
Surrogate: Triphenylene	*160*		*ug/kg dry*	*172.79*		*92*	*68-129*		

PREPARATION BENCH SHEET

L006198

Lionville Laboratory

Printed: 6/21/2010 12:46:19PM

Matrix: Solid **Prepared using: HPLC - SW 3540C** **Surrogate used: 1001119**

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Client	Extraction Comments
1006082-01	8310 PAH	06/17/2010 13:34	30.79	5				500	WC-Hanford, Inc.	
1006082-02	8310 PAH	06/17/2010 13:34	31.38	5				500	WC-Hanford, Inc.	
1006082-03	8310 PAH	06/17/2010 13:34	30.97	5				500	WC-Hanford, Inc.	
1006082-04	8310 PAH	06/17/2010 13:34	30.34	5				500	WC-Hanford, Inc.	
1006082-05	8310 PAH	06/17/2010 13:34	30.96	5				500	WC-Hanford, Inc.	
1006082-06	8310 PAH	06/17/2010 13:34	30.59	5				500	WC-Hanford, Inc.	
1006082-07	8310 PAH	06/17/2010 13:34	30.08	5				500	WC-Hanford, Inc.	
1006082-08	8310 PAH	06/17/2010 13:34	30.73	5				500	WC-Hanford, Inc.	
1006082-09	8310 PAH	06/17/2010 13:34	30.11	5				500	WC-Hanford, Inc.	
1006082-10	8310 PAH	06/17/2010 13:34	30.29	5				500	WC-Hanford, Inc.	
1006082-11	8310 PAH	06/17/2010 13:34	30.71	5				500	WC-Hanford, Inc.	
1006082-12	8310 PAH	06/17/2010 13:34	30.91	5				500	WC-Hanford, Inc.	
1006082-13	8310 PAH	06/17/2010 13:34	30.17	5				500	WC-Hanford, Inc.	
L006198-BLK1	QC	06/17/2010 13:34	30.17	5				500		
L006198-BS1	QC	06/17/2010 13:34	30.02	5	1000491		1000	500		
L006198-MS1	QC	06/17/2010 13:34	30.02	5	1000491	1006082-01	1000	500		
L006198-MSD1	QC	06/17/2010 13:34	30.01	5	1000491	1006082-01	1000	500		

Benjamin Harris 6/21/10 12:47
Extracts Relinquished By Date

S Lah 06/21/10 12:50
Extracts Received By

Lionville Laboratory Use Only

1006 082

Custody Transfer Record/Lab Work Request

Page 1 of 2

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

LVLI LIONVILLE LABORATORY INC.

Client WCHANFORD SAF#-RC-107

Est. Final Proj. Sampling Date

Project#

Project Contact/Phone#

Lionville Laboratory Project Manager O. JOHNSON

QC SW Del SW TAT 21 Days

Date Rec'd 6/17/10 Date Due 7-8-10

	A	B	C		D	E		F				G			
Refrigerator #	VOA	2	2		2	2		2				2			
#/Type Container (~~Liquid~~ / Solid)	1AG	1AG	1AG		1AG	1AG		1				1			
Volume	60	120	60		120	120		125				125			
Preservatives	—	—	—		—	—		—				—			
ANALYSES REQUESTED	ORGANIC							INORG							
	VOA	BNA	~~Pest~~ PCB	Herb	PAHs	Pest		Metal	~~CN~~	Anions	CrVI	NH3			

MATRIX CODES:	Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	VOA, TCL	BNA, TCL	PCB		8310	Pest		Metals		Anions	CrVI	NH3			
S- Soil, SE- Sediment, SO- Solid, SL- Sludge, W- Water, O- Oil, A- Air, DS- Drum Solids, DL- Drum Liquids, L- EP/TCLP Leachate, WI- Wipe, X- Other, F- Fish	01	JIB 595			Soil	6/15/10	1105	X	X	X		X	X		X		X	X	X			
	02	96					1125	X	X	X		X	X		X		X	X	X			
	03	97					1145	X	X	X		X	X		X		X	X	X			
	04	98					1140	X	X	X		X	X		X		X	X	X			
	05	99					1245	X	X	X		X	X		X		X	X	X			
	06	B0					1305	X	X	X		X	X		X		X	X	X			
	07	B1					1325	X	X	X		X	X		X		X	X	X			
	08	B2					1320	X	X	X		X	X		X		X	X	X			
	09	B3					1330	X	X	X		X	X		X		X	X	X			
	10	B4					1340	X	X	X		X	X		X		X	X	X			

Special Instructions: MATRIX QC
Non Rad
JD.

METHOD = HSL + B, Mo; Sr (NO TL)

Special Instructions:
1.
2.
3.
4.
5.
6.

Relinquished by	Received by	Date	Time
FedEx		6/17/10	1020

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time

Lionville Laboratory Use Only: 1006082

Custody Transfer Record/Lab Work Request

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

LVLI Lionville Laboratory Inc.

Client: WC Hanford SAF# BC-107

Est. Final Proj. Sampling Date:

Project#:

Project Contact/Phone#:

Lionville Laboratory Project Manager: C. JOHNSON

QC: ZW Del: SHL TAT: 21 Days

Date Rec'd: 6-17-10 Date Due: 7-8-10

Lab ID	Client ID/Description	MS	MSD	Matrix	Date Collected	Time Collected	VOA	BNA	PCB	Herb	PAHs	PEST	Metal Hg	Cr	IC Anions	CrT6	NO2 NO3			
Refrigerator #							NOA	2	2		2	2		2			1	2		
#/Type Container	~~Liquid~~ Solid						1AG	1AG	1AG		1AG	1AG		1			1	1		
Volume							60	120	60		120	120		125			1	125		
Preservatives																	1			
ANALYSES REQUESTED							ORGANIC							INORG						
11	TIB5B5			Soil	6-15-10	1355	X	X	X		X	X		X		X	X	X		
12	B6					1400	X	X	X		X	X		X		X	X	X		
13	B7					1145	X	X	X		X	X		X		X	X	X		
14	D3					0845	X	VH 6/17/10												

Lionville Laboratory Use Only

MATRIX CODES:
- S- Soil
- SE- Sediment
- SO- Solid
- SL- Sludge
- W- Water
- O- Oil
- A- Air
- DS- Drum Solids
- DL- Drum Liquids
- L- EP/TCLP Leachate
- WI- Wipe
- X- Other
- F- Fish

Special Instructions:

Special Instructions:
1.
2.
3.
4.
5.
6.

Relinquished by	Received by	Date	Time
Fed Ex	[illegible]	6/17/10	1020

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-035	Page 1 of 3

Collector: J. Sellers	Company Contact: Don Woolery Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH	Price Code: 8L Data Turnaround: 21 Days
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Drain Field Excavation Area	SAF No.: RC-107	
Ice Chest No.: WCH-08-034	Field Logbook No.: EL 1627-4 COA: 0607H32000	Method of Shipment: Fed Ex	
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: A 100 220	Bill of Lading/Air Bill No.: See OSPC	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation			None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	
Type of Container			G/P	G/P	G/P	G/P	aG	aG	aG	aG	aG	
No. of Container(s)			1	0	0	1	1	1	1	1	1	
Volume			125mL	60mL	60mL	125mL	60mL	120mL	60mL	120mL	120mL	
SAMPLE ANALYSIS			See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	NO2/NO3 - 353.2	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PC3s - 8082	PAHs - 8310	Pesticides - 8081	
Sample No.	Matrix *	Sample Date	Sample Time									
J1B595	SOIL	6-15-10	1105	X	X	X	X	X	X	X	X	X	
J1B596	SOIL	6-15-10	1125	X	X	X	X	X	X	X	X	X	
J1B597	SOIL	6-15-10	1145	X	X	X	X	X	X	X	X	X	
J1B598	SOIL	6-15-10	1140	X	X	X	X	X	X	X	X	X	
J1B599	SOIL	6-15-10	1245	X	X	X	X	X	X	X	X	X	

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J. Sellers Josh Sellers	6-15-10 1440	Sterling Howell	6-15-10 1440
Sterling Howell	6-15-10 1645	Daniel Hewan	6-15-10 / 1645
Daniel Hewan WCH	6-16-10 / 1000	FED EX	
FED EX	6-17-10 1020	VICTOR HERNANDEZ	6-17-10 1020

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc); Mercury - 7471 - (CV)
(2) IC Anions - 300.0 (Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate)

REVIEWED BY JEB
DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wl=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-035	Page 2 of 3

Collector: J. Sellers	Company Contact: Don Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Drain Field Excavation Area		SAF No.: RC-107
Ice Chest No.: WCH-08-034	Field Logbook No.: EL 1627-4	COA: 0607H32000	Method of Shipment: Fed Ex
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: A 100220		Bill of Lading/Air Bill No.: See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation			None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	
Type of Container			G/P	G/P	G/P	G/P	aG	aG	aG	aG	aG	
No. of Container(s)			1	0	0	1	1	1	1	1	1	
Volume			125mL	60mL	60mL	125mL	60mL	120mL	60mL	120mL	120mL	
SAMPLE ANALYSIS			See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	NO2/NO3 - 353.2	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081	
Sample No.	Matrix *	Sample Date	Sample Time									
J1B5B0	SOIL	6-15-10	1305	X	X	X	X	X	X	X	X	X	
J1B5B1	SOIL	6-15-10	1325	X	X	X	X	X	X	X	X	X	
J1B5B2	SOIL	6-15-10	1320	X	X	X	X	X	X	X	X	X	
J1B5B3	SOIL	6-15-10	1330	X	X	X	X	X	X	X	X	X	
J1B5B4	SOIL	6-15-10	1340	X	X	X	X	X	X	X	X	X	

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J. Sellers	6-15-10 1440	Starling Howell	6-15-10 1440
Starling Howell	6-15-10 1645	Daniel Herrera	6-15-10/1645
Daniel Herrera (WCH)	6-16-10/1000	FED EX	
	6-17-10 1020	V. Rodriguez	6-17-10 1020
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)
(2) IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}

REVIEWED BY JEB DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-035	Page 3 of 3

Collector J. Sellers	Company Contact Don Woolery	Telephone No. 509-431-0448	Project Coordinator KESSNER, JH	Price Code 8L	Data Turnaround 21 Days
Project Designation 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location 1607-H-3 Drain Field Excavation Area		SAF No. RC-107		
Ice Chest No. WCH-08-034	Field Logbook No. EL 1627-4	COA 0607H32000	Method of Shipment Fed Ex		
Shipped To EBERLINE SERVICES / LIONVILLE	Offsite Property No. A100220		Bill of Lading/Air Bill No. See OSPC		

POSSIBLE SAMPLE ~~HAZARDS/REMARKS~~

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	
Type of Container	G/P	G/P	G/P	G/P	aG	aG	aG	aG	aG	
No. of Container(s)	1	0	0	1	1	1	1	1	1	
Volume	125mL	60mL	60mL	125mL	60mL	120mL	60mL	120mL	120mL	
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	NO2/NO3 - 353.2	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081	
Sample No. / Matrix * / Sample Date / Sample Time										
J1B5B5 / SOIL / 6-15-10 / 1355	X	X	X	X	X	X	X	X	X	
J1B5B6 / SOIL / 6-15-10 / 1400	X	X	X	X	X	X	X	X	X	
J1B5B7 / SOIL / 6-15-10 / 1145	X	X	X	X	X	X	X	X	X	

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From J. Sellers Josh Sellers	6-15-10 1440	Received By/Stored In Sterling Howell	6-15-10 1440
Relinquished By/Removed From Sterling Howell	6-15-10 1645	Received By/Stored In Daniel Herrera	6-15-10 1645
Relinquished By/Removed From Daniel Herrera WCH	6-16-10 1000	Received By/Stored In FED EX	
Relinquished By/Removed From FED EX	6-17-10 1020	Received By/Stored In VICTOR HERNANDEZ	6-17-10 1020
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From		Received By/Stored In	

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)
(2) IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}

REVIEWED BY JEB DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-037	Page 1 of 1

Collector: J. Sellers	Company Contact: Don Woolery Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH	Price Code: 8L Data Turnaround: 21 Days
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Trip Blanks	SAF No.: RC-107	
Ice Chest No.: WCH-08-034	Field Logbook No.: EL 1627-4 COA: 0607H32000	Method of Shipment: Fed Ex	
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: A100220	Bill of Lading/Air Bill No.: See OSPC	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	Cool 4C										
Type of Container	aG										
No. of Container(s)	1										
Volume	60mL										
SAMPLE ANALYSIS	VOA - 8260A (TCL)										

Sample No.	Matrix *	Sample Date	Sample Time									
~~J1B5D2~~	~~SOIL~~	6/15/10										
J1B5D3	SOIL	6-15-10	~~0840~~ 0845 ~~6-15-10~~	X								

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS
Relinquished By/Removed From: J. Sellers, Josh Sellers — Date/Time: 6-15-10 1440	Received By/Stored In: Sterling Howell — Date/Time: 6-15-10 1440	
Relinquished By/Removed From: Sterling Howell — Date/Time: 6-15-10 1645	Received By/Stored In: Daniel Herrera — Date/Time: 6-15-10 / 1645	
Relinquished By/Removed From: Daniel Herrera, WCH — Date/Time: 6-16-10 / 1000	Received By/Stored In: FED EX — Date/Time:	
Relinquished By/Removed From: [illegible] — Date/Time: 6-17-10 1010	Received By/Stored In: VICTOR HERNANDEZ — Date/Time: ~~6-10-10~~ ~~1020~~ 6-17-10 1010	
Relinquished By/Removed From: — Date/Time:	Received By/Stored In: — Date/Time:	
Relinquished By/Removed From: — Date/Time:	Received By/Stored In: — Date/Time:	

REVIEWED BY JEB
DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Lionville Laboratory

SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: WCH Hanford
Project/SAF/SOW/Release #: RC-107

Date: 6/17/10

LvL Batch #: 1006082

Sample Custodian: [illegible]

NOTE. EXPLAIN ALL DISCREPANCIES

1. Samples Hand Delivered or Shipped?	Carrier FED EX		Airbill # 7936 4256 7389 + 7437 + 7470
2. Custody Seals on coolers or shipping containers intact, signed & dated?	☑ Yes	☐ No	☐ No Seals
3. Outside of coolers or shipping containers are free from damage?	☑ Yes	☐ No	Comments: Cooler outside Cracked inside
4. All expected paperwork received (coc & other client specific information) sealed in plactic bag and easily accessible?	☑ Yes	☐ No	
5. Samples received cooled or ambient?	Temp 2.1 2.2 3.2	°C	Cooler # WCH-08-034 + 025 + BHI-94
How was the temperature taken?	☑ IR	☐ Temp. Blank	☐ Other (Specify)
Is the Temp. Criteria met for these samples? (Hg in soils @ 4°C)	☑ Yes	☐ No	
6. Custody seals on sample containers intact. signed and dated?	☑ Yes	☐ No	☐ No Seals
7. COC (Client & LvL) signed & dated?	☑ Yes	☐ No	
8. Sample containers are intact?	☑ Yes	☐ No	
9. All samples on COC received?	☑ Yes	☐ No	
All samples received on COC?	☑ Yes	☐ No	
10. All sample label information matches COC?	☑ Yes	☐ No	
11. Samples properly preserved? (If #5 is no. then this is no.)	☑ Yes	☐ No	
12. Samples received within hold times?	☑ Yes	☐ No	
Short holds taken to wet lab?	☐ Yes	☐ No	☑ N/A
13. VOA, TOC, TOX free of headspace?	☑ Yes	☐ No	☐ N/A
14. QC stickers placed on bottles designated by client?	☐ Yes	☐ No	☑ N/A
15. Shipment meets LvL Sample Acceptance Policy? (Identify all bottles that do not meet the policy, which is on the reverse of this page.)	☑ Yes	☐ No	
16. Project Manager contacted concerning any discrepancies?	☐ Yes	☐ No	☑ N/A

Person Contacted _____ Date _____

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/28/2010 19:03

Analytical Report for Organochlorine Pesticides by SW846 8081A

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
J1B595	1006082-01	Soil	06/15/2010 11:05	06/17/2010 10:20
J1B596	1006082-02	Soil	06/15/2010 11:25	06/17/2010 10:20
J1B597	1006082-03	Soil	06/15/2010 11:45	06/17/2010 10:20
J1B598	1006082-04	Soil	06/15/2010 11:40	06/17/2010 10:20
J1B599	1006082-05	Soil	06/15/2010 12:45	06/17/2010 10:20
J1B5B0	1006082-06	Soil	06/15/2010 13:05	06/17/2010 10:20
J1B5B1	1006082-07	Soil	06/15/2010 13:25	06/17/2010 10:20
J1B5B2	1006082-08	Soil	06/15/2010 13:20	06/17/2010 10:20
J1B5B3	1006082-09	Soil	06/15/2010 13:30	06/17/2010 10:20
J1B5B4	1006082-10	Soil	06/15/2010 13:40	06/17/2010 10:20
J1B5B5	1006082-11	Soil	06/15/2010 13:55	06/17/2010 10:20
J1B5B6	1006082-12	Soil	06/15/2010 14:00	06/17/2010 10:20
J1B5B7	1006082-13	Soil	06/15/2010 11:45	06/17/2010 10:20

LIONVILLE LABORATORY
A division of Eberline Analytical Corporation

264 Welsh Pool Road
Exton, Pennsylvania 19341
Phone (610) 280-3000
Fax (610) 280-3041

Case Narrative

Client: WC-HANFORD RC-107 K2099
LVL #: 1006082

W.O. #: 60049-001-001-0001-00
Date Received: 06-17-2010

CHLORINATED PESTICIDES

Thirteen (13) soil samples were collected on 06-15-2010.

The samples and associated QC samples were extracted 06-17-2010 and analyzed 06-23,24-2010 according to criteria set forth in Lionville Laboratory SOPs. The extraction procedure was based on SW846 Method 3540C, and the analysis procedure was based on SW846 Method 8081A for client specified target compounds. All samples received Copper-Sulfur cleanup based on SW846 method 3660A.

Lionville Laboratory (LvL) is NELAP accredited by the State of Pennsylvania. For a complete listing of accrediting authorities and the corresponding analytes/methods, please contact your Project Manager. LvL certifies that all test results meet the requirements of NELAC with any exception noted in the following statements:

1. The results presented in this report are derived from samples that met LvL's sample acceptance policy.

2. All required holding times for extraction and analysis have been met.

3. All obtainable surrogate recoveries were within acceptance criteria.

4. The method blank was below the reporting limit for all target compounds.

5. All blank spike recoveries were within acceptance criteria.

6. Two (2) of forty (40) matrix spike recoveries were outside acceptance criteria. A copy of the Sample Discrepancy Report (SDR# 10GC221) has been enclosed.

7. All samples required 4-fold instrument dilutions due to the sample matrix. Reporting limits have been adjusted to reflect the necessary dilutions.

8. The samples are reported on a dry weight basis.

9. All initial calibrations associated with this data set were within acceptance criteria.

10. All continuing calibration standards analyzed prior to sample extracts were within acceptance criteria.

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 30 pages.

11. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or a designee, as verified by the following signature.

for Iain Daniels
LvL Laboratory Manager

7/1/10
Date

Lionville Laboratory Sample Discrepancy Report (SDR)

SDR #: 10GC221

Initiator: Catherine Carey
Date: 06/28/10
Client: WC Hanford

Batch: 1006082
Samples: all
Method: SW846/MCAWW/CLP/

Parameter: Pest
Matrix: SOIL
Prep Batch: L006197

1. Reason for SDR

a. COC Discrepancy __ Tech Profile Error __ Client Request __ Sampler Error on C-O-C __ Transcription Error __ Wrong Test Code __ Other _____

b. General Discrepancy

__ Missing Sample/Extract __ Container Broken __ Wrong Sample Pulled __ Label ID's Illegible
__ Hold Time Exceeded __ Insufficient Sample __ Preservation Wrong __ Received Past Hold
__ Improper Bottle Type __ Not Amenable to Analysis

Note: Verified by [Log-In] or [Prep Group] (circle)...signature/date: _____

c. Problem (Include all relevant specific results; attach data if necessary)

4,4-DDT recovery is low in both MS + MSD

okay in BS

2. Known or Probable Causes(s)

Matrix

3. Discussion and Proposed Action Other Description:

__ Re-log
__ Entire Batch
__ Following Samples: _____
__ Re-leach
__ Re-extract
__ Re-digest
__ Revise EDD
__ Change Test Code to _____
__ Place On/Take Off Hold (circle)

Narrate
JD

4. Project Manager Instructions...signature/date: 7/1/10

✓ Concur with Proposed Action
__ Disagree with Proposed Action; See Instruction
__ Include in Case Narrative
__ Client Contacted:
Date/Person _____
__ Add
__ Cancel

5. Final Action...signature/date: 6/30/10 Other Explanation:

__ Verified re-[log][leach][extract][digest][analysis] (circle)
✓ Included in Case Narrative
__ Hard Copy COC Revised
__ Electronic COC Revised
__ EDD Corrections Completed

When Final Action has been recorded, forward original to QA for diposition.

Route
__ Lab Manager: Daniels
__ Project Mgr (circle): Johnson / Stone
__ Sample Prep (circle): Ford
__ Log-in: King

Route
__ Metals: Welsh / _____
__ Inorganic: Perrone / _____
__ GC/LC: Carey / _____
__ MS VOA: Rubino / _____
__ MS BNA: Carden / _____
__ Other: _____

QA-139-A-0208

GLOSSARY OF DATA

DATA QUALIFIERS

U	=	Indicates that the compound was analyzed for but not detected. The minimum detection limit for the sample (not the method detection limit) is reported with the U (e.g., 10U).
J	=	Indicates an estimated value. This flag is used in cases where a target analyte is detected at a level less than the lower quantification level. If the limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.
B	=	This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination.
E	=	Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
I	=	Interference.
. I	=	Indicates an interference on one analytical column only. Result is reported from remaining analytical column.
P	=	This flag is used for a dual column analysis (i.e. pesticides/PCB/herbicides) when there is greater than 40% difference for detected concentrations between the two GC columns; the lower of the two values is reported on Form 1 and flagged with a "P".
D	=	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
C	=	This flag applies to a compound that has been confirmed by GC/MS.

ABBREVIATIONS

BS	=	Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.
BSD	=	Indicates blank spike duplicate.
MS	=	Indicates matrix spike.
MSD	=	Indicates matrix spike duplicate.
DL	=	Indicates that recoveries were not obtained because the extract had to be diluted for analysis.
NA	=	Not Applicable.
DF	=	Dilution Factor.
NR	=	Not Required.
NS	=	Not Spiked.
SP	=	Indicates Spiked Compound.
NPM	=	No pattern match for multi-component target analytes.

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/28/2010 19:03

J1B595

1006082-01 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Organochlorine Pesticides by SW846 8081A								
alpha-BHC	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
gamma-BHC	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
beta-BHC	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
delta-BHC	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Heptachlor	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Aldrin	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Heptachlor epoxide	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
gamma-Chlordane	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
alpha-Chlordane	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endosulfan I	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
4,4'-DDE	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Dieldrin	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endrin	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
4,4'-DDD	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endosulfan II	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
4,4'-DDT	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endrin aldehyde	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endosulfan sulfate	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Methoxychlor	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endrin ketone	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Toxaphene	19.9 U	19.9	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Surrogate: Tetrachloro-meta-xylene	*97.1 %*	*28-166*			*L006197*	*06/17/2010*	*06/23/2010*	*8081A*
Surrogate: Decachlorobiphenyl	*115 %*	*37-153*			*L006197*	*06/17/2010*	*06/23/2010*	*8081A*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/28/2010 19:03

J1B596

1006082-02 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Organochlorine Pesticides by SW846 8081A								
alpha-BHC	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
gamma-BHC	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
beta-BHC	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
delta-BHC	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Heptachlor	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Aldrin	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Heptachlor epoxide	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
gamma-Chlordane	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
alpha-Chlordane	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endosulfan I	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
4,4'-DDE	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Dieldrin	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endrin	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
4,4'-DDD	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endosulfan II	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
4,4'-DDT	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endrin aldehyde	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endosulfan sulfate	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Methoxychlor	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endrin ketone	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Toxaphene	19.9 U	19.9	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Surrogate: Tetrachloro-meta-xylene	*93.3 %*	*28-166*			*L006197*	*06/17/2010*	*06/23/2010*	*8081A*
Surrogate: Decachlorobiphenyl	*116 %*	*37-153*			*L006197*	*06/17/2010*	*06/23/2010*	*8081A*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/28/2010 19:03

J1B597

1006082-03 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
			Lionville Laboratory					
Organochlorine Pesticides by SW846 8081A								
alpha-BHC	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
gamma-BHC	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
beta-BHC	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
delta-BHC	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Heptachlor	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Aldrin	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Heptachlor epoxide	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
gamma-Chlordane	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
alpha-Chlordane	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endosulfan I	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
4,4'-DDE	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Dieldrin	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endrin	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
4,4'-DDD	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endosulfan II	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
4,4'-DDT	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endrin aldehyde	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endosulfan sulfate	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Methoxychlor	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endrin ketone	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Toxaphene	19.6 U	19.6	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Surrogate: Tetrachloro-meta-xylene	*93.8 %*	*28-166*			*L006197*	*06/17/2010*	*06/23/2010*	*8081A*
Surrogate: Decachlorobiphenyl	*117 %*	*37-153*			*L006197*	*06/17/2010*	*06/23/2010*	*8081A*

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J1B598

1006082-04 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Organochlorine Pesticides by SW846 8081A								
alpha-BHC	1.34 U	1.34	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
gamma-BHC	1.34 U	1.34	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
beta-BHC	1.34 U	1.34	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
delta-BHC	1.34 U	1.34	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Heptachlor	1.34 U	1.34	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Aldrin	1.34 U	1.34	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Heptachlor epoxide	1.34 U	1.34	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
gamma-Chlordane	1.34 U	1.34	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
alpha-Chlordane	1.34 U	1.34	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endosulfan I	1.34 U	1.34	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
4,4'-DDE	1.34 U	1.34	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Dieldrin	1.34 U	1.34	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endrin	1.34 U	1.34	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
4,4'-DDD	1.34 U	1.34	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endosulfan II	1.34 U	1.34	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
4,4'-DDT	1.34 U	1.34	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endrin aldehyde	1.34 U	1.34	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endosulfan sulfate	1.34 U	1.34	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Methoxychlor	1.34 U	1.34	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endrin ketone	1.34 U	1.34	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Toxaphene	20.1 U	20.1	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Surrogate: Tetrachloro-meta-xylene	*94.1 %*	*28-166*			*L006197*	*06/17/2010*	*06/23/2010*	*8081A*
Surrogate: Decachlorobiphenyl	*121 %*	*37-153*			*L006197*	*06/17/2010*	*06/23/2010*	*8081A*

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1006082-05 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Organochlorine Pesticides by SW846 8081A								
alpha-BHC	1.35 U	1.35	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
gamma-BHC	1.35 U	1.35	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
beta-BHC	1.35 U	1.35	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
delta-BHC	1.35 U	1.35	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Heptachlor	1.35 U	1.35	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Aldrin	1.35 U	1.35	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Heptachlor epoxide	1.35 U	1.35	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
gamma-Chlordane	1.35 U	1.35	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
alpha-Chlordane	1.35 U	1.35	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endosulfan I	1.35 U	1.35	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
4,4'-DDE	1.35 U	1.35	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Dieldrin	1.35 U	1.35	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endrin	1.35 U	1.35	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
4,4'-DDD	1.35 U	1.35	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endosulfan II	1.35 U	1.35	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
4,4'-DDT	1.35 U	1.35	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endrin aldehyde	1.35 U	1.35	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endosulfan sulfate	1.35 U	1.35	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Methoxychlor	1.35 U	1.35	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Endrin ketone	1.35 U	1.35	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Toxaphene	20.3 U	20.3	ug/kg dry	4	L006197	06/17/2010	06/23/2010	8081A
Surrogate: Tetrachloro-meta-xylene	*93.5 %*	*28-166*			*L006197*	*06/17/2010*	*06/23/2010*	*8081A*
Surrogate: Decachlorobiphenyl	*116 %*	*37-153*			*L006197*	*06/17/2010*	*06/23/2010*	*8081A*

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WC-Hanford, Inc.	Project: RC-107	
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Richland WA, 99354	Project Manager: Joan Kessner	06/28/2010 19:03

J1B5B0

1006082-06 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Organochlorine Pesticides by SW846 8081A								
alpha-BHC	1.36 U	1.36	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
gamma-BHC	1.36 U	1.36	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
beta-BHC	1.36 U	1.36	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
delta-BHC	1.36 U	1.36	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Heptachlor	1.36 U	1.36	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Aldrin	1.36 U	1.36	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Heptachlor epoxide	1.36 U	1.36	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
gamma-Chlordane	1.36 U	1.36	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
alpha-Chlordane	1.36 U	1.36	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan I	1.36 U	1.36	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDE	1.36 U	1.36	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Dieldrin	1.36 U	1.36	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin	1.36 U	1.36	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDD	1.36 U	1.36	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan II	1.36 U	1.36	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDT	1.36 U	1.36	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin aldehyde	1.36 U	1.36	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan sulfate	1.36 U	1.36	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Methoxychlor	1.36 U	1.36	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin ketone	1.36 U	1.36	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Toxaphene	20.4 U	20.4	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Surrogate: Tetrachloro-meta-xylene	*102 %*	*28-166*			*L006197*	*06/17/2010*	*06/24/2010*	*8081A*
Surrogate: Decachlorobiphenyl	*119 %*	*37-153*			*L006197*	*06/17/2010*	*06/24/2010*	*8081A*

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J1B5B1

1006082-07 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Organochlorine Pesticides by SW846 8081A								
alpha-BHC	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
gamma-BHC	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
beta-BHC	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
delta-BHC	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Heptachlor	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Aldrin	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Heptachlor epoxide	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
gamma-Chlordane	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
alpha-Chlordane	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan I	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDE	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Dieldrin	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDD	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan II	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDT	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin aldehyde	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan sulfate	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Methoxychlor	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin ketone	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Toxaphene	20.6 U	20.6	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Surrogate: Tetrachloro-meta-xylene	*97.7 %*	*28-166*			*L006197*	*06/17/2010*	*06/24/2010*	*8081A*
Surrogate: Decachlorobiphenyl	*121 %*	*37-153*			*L006197*	*06/17/2010*	*06/24/2010*	*8081A*

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WC-Hanford, Inc.	Project: RC-107	
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J1B5B2

1006082-08 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Organochlorine Pesticides by SW846 8081A								
alpha-BHC	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
gamma-BHC	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
beta-BHC	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
delta-BHC	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Heptachlor	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Aldrin	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Heptachlor epoxide	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
gamma-Chlordane	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
alpha-Chlordane	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan I	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDE	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Dieldrin	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDD	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan II	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDT	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin aldehyde	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan sulfate	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Methoxychlor	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin ketone	1.30 U	1.30	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Toxaphene	19.6 U	19.6	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Surrogate: Tetrachloro-meta-xylene	*97.3 %*	*28-166*			*L006197*	*06/17/2010*	*06/24/2010*	*8081A*
Surrogate: Decachlorobiphenyl	*116 %*	*37-153*			*L006197*	*06/17/2010*	*06/24/2010*	*8081A*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/28/2010 19:03

J1B5B3

1006082-09 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Organochlorine Pesticides by SW846 8081A								
alpha-BHC	1.31 U	1.31	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
gamma-BHC	1.31 U	1.31	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
beta-BHC	1.31 U	1.31	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
delta-BHC	1.31 U	1.31	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Heptachlor	1.31 U	1.31	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Aldrin	1.31 U	1.31	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Heptachlor epoxide	1.31 U	1.31	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
gamma-Chlordane	1.31 U	1.31	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
alpha-Chlordane	1.31 U	1.31	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan I	1.31 U	1.31	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDE	1.31 U	1.31	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Dieldrin	1.31 U	1.31	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin	1.31 U	1.31	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDD	1.31 U	1.31	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan II	1.31 U	1.31	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDT	1.31 U	1.31	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin aldehyde	1.31 U	1.31	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan sulfate	1.31 U	1.31	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Methoxychlor	1.31 U	1.31	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin ketone	1.31 U	1.31	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Toxaphene	19.6 U	19.6	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Surrogate: Tetrachloro-meta-xylene	*97.0 %*	*28-166*			*L006197*	*06/17/2010*	*06/24/2010*	*8081A*
Surrogate: Decachlorobiphenyl	*120 %*	*37-153*			*L006197*	*06/17/2010*	*06/24/2010*	*8081A*

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WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-107 Project Number: K2099 Project Manager: Joan Kessner	**Reported:** 06/28/2010 19:03

J1B5B4

1006082-10 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Organochlorine Pesticides by SW846 8081A								
alpha-BHC	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
gamma-BHC	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
beta-BHC	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
delta-BHC	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Heptachlor	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Aldrin	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Heptachlor epoxide	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
gamma-Chlordane	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
alpha-Chlordane	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan I	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDE	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Dieldrin	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDD	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan II	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDT	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin aldehyde	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan sulfate	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Methoxychlor	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin ketone	1.33 U	1.33	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Toxaphene	20.0 U	20.0	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Surrogate: Tetrachloro-meta-xylene	*105 %*	*28-166*			*L006197*	*06/17/2010*	*06/24/2010*	*8081A*
Surrogate: Decachlorobiphenyl	*125 %*	*37-153*			*L006197*	*06/17/2010*	*06/24/2010*	*8081A*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/28/2010 19:03

J1B5B5

1006082-11 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Organochlorine Pesticides by SW846 8081A								
alpha-BHC	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
gamma-BHC	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
beta-BHC	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
delta-BHC	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Heptachlor	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Aldrin	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Heptachlor epoxide	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
gamma-Chlordane	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
alpha-Chlordane	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan I	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDE	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Dieldrin	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDD	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan II	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDT	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin aldehyde	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan sulfate	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Methoxychlor	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin ketone	1.37 U	1.37	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Toxaphene	20.5 U	20.5	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Surrogate: Tetrachloro-meta-xylene	*91.0 %*	*28-166*			*L006197*	*06/17/2010*	*06/24/2010*	*8081A*
Surrogate: Decachlorobiphenyl	*114 %*	*37-153*			*L006197*	*06/17/2010*	*06/24/2010*	*8081A*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/28/2010 19:03

J1B5B6

1006082-12 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Organochlorine Pesticides by SW846 8081A								
alpha-BHC	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
gamma-BHC	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
beta-BHC	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
delta-BHC	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Heptachlor	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Aldrin	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Heptachlor epoxide	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
gamma-Chlordane	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
alpha-Chlordane	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan I	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDE	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Dieldrin	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDD	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan II	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDT	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin aldehyde	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan sulfate	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Methoxychlor	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin ketone	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Toxaphene	19.8 U	19.8	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Surrogate: Tetrachloro-meta-xylene	*91.7 %*	*28-166*			*L006197*	*06/17/2010*	*06/24/2010*	*8081A*
Surrogate: Decachlorobiphenyl	*117 %*	*37-153*			*L006197*	*06/17/2010*	*06/24/2010*	*8081A*

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WC-Hanford, Inc.	Project: RC-107	
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Richland WA, 99354	Project Manager: Joan Kessner	06/28/2010 19:03

J1B5B7

1006082-13 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Organochlorine Pesticides by SW846 8081A								
alpha-BHC	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
gamma-BHC	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
beta-BHC	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
delta-BHC	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Heptachlor	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Aldrin	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Heptachlor epoxide	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
gamma-Chlordane	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
alpha-Chlordane	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan I	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDE	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Dieldrin	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDD	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan II	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
4,4'-DDT	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin aldehyde	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endosulfan sulfate	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Methoxychlor	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Endrin ketone	1.32 U	1.32	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Toxaphene	19.8 U	19.8	ug/kg dry	4	L006197	06/17/2010	06/24/2010	8081A
Surrogate: Tetrachloro-meta-xylene	*91.7 %*	*28-166*			*L006197*	*06/17/2010*	*06/24/2010*	*8081A*
Surrogate: Decachlorobiphenyl	*117 %*	*37-153*			*L006197*	*06/17/2010*	*06/24/2010*	*8081A*

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WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-107 Project Number: K2099 Project Manager: Joan Kessner	**Reported:** 06/28/2010 19:03

Organochlorine Pesticides by SW846 8081A - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L006197 - SW 3540C									
Blank (L006197-BLK1)			Prepared: 06/17/2010 Analyzed: 06/23/2010						
alpha-BHC	0.330 U	0.330	ug/kg wet						
gamma-BHC	0.330 U	0.330	ug/kg wet						
beta-BHC	0.330 U	0.330	ug/kg wet						
delta-BHC	0.330 U	0.330	ug/kg wet						
Heptachlor	0.330 U	0.330	ug/kg wet						
Aldrin	0.330 U	0.330	ug/kg wet						
Heptachlor epoxide	0.330 U	0.330	ug/kg wet						
gamma-Chlordane	0.330 U	0.330	ug/kg wet						
alpha-Chlordane	0.330 U	0.330	ug/kg wet						
Endosulfan I	0.330 U	0.330	ug/kg wet						
4,4'-DDE	0.330 U	0.330	ug/kg wet						
Dieldrin	0.330 U	0.330	ug/kg wet						
Endrin	0.330 U	0.330	ug/kg wet						
4,4'-DDD	0.330 U	0.330	ug/kg wet						
Endosulfan II	0.330 U	0.330	ug/kg wet						
4,4'-DDT	0.330 U	0.330	ug/kg wet						
Endrin aldehyde	0.330 U	0.330	ug/kg wet						
Endosulfan sulfate	0.330 U	0.330	ug/kg wet						
Methoxychlor	0.330 U	0.330	ug/kg wet						
Endrin ketone	0.330 U	0.330	ug/kg wet						
Toxaphene	4.96 U	4.96	ug/kg wet						
Surrogate: Tetrachloro-meta-xylene	*29.1*		*ug/kg wet*	*33.039*		*88.2*	*28-166*		
Surrogate: Decachlorobiphenyl	*31.5*		*ug/kg wet*	*33.036*		*95.3*	*37-153*		
LCS (L006197-BS1)			Prepared: 06/17/2010 Analyzed: 06/23/2010						
alpha-BHC	33.3	0.333	ug/kg wet	33.311		100	61-142		
gamma-BHC	33.8	0.333	ug/kg wet	33.311		102	65-142		
beta-BHC	34.1	0.333	ug/kg wet	33.311		102	71-134		
delta-BHC	31.2	0.333	ug/kg wet	33.311		93.8	53-144		
Heptachlor	31.5	0.333	ug/kg wet	33.311		94.6	70-138		
Aldrin	33.3	0.333	ug/kg wet	33.311		100	70-143		
Heptachlor epoxide	32.3	0.333	ug/kg wet	33.311		97.1	72-140		
gamma-Chlordane	32.8	0.333	ug/kg wet	33.311		98.4	74-140		
alpha-Chlordane	32.9	0.333	ug/kg wet	33.311		98.8	74-138		
Endosulfan I	36.6	0.333	ug/kg wet	33.311		110	81-141		
4,4'-DDE	39.6	0.333	ug/kg wet	33.311		119	82-145		
Dieldrin	33.8	0.333	ug/kg wet	33.311		102	79-144		

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Organochlorine Pesticides by SW846 8081A - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L006197 - SW 3540C									
LCS (L006197-BS1)			Prepared: 06/17/2010 Analyzed: 06/23/2010						
Endrin	34.8	0.333	ug/kg wet	33.311		105	73-147		
4,4'-DDD	37.9	0.333	ug/kg wet	33.311		114	77-148		
Endosulfan II	33.3	0.333	ug/kg wet	33.311		100	80-140		
4,4'-DDT	31.2	0.333	ug/kg wet	33.311		93.8	82-142		
Endrin aldehyde	28.3	0.333	ug/kg wet	33.311		85.0	59-133		
Endosulfan sulfate	30.8	0.333	ug/kg wet	33.311		92.6	77-135		
Methoxychlor	30.4	0.333	ug/kg wet	33.311		91.3	77-136		
Endrin ketone	33.9	0.333	ug/kg wet	33.311		102	85-134		
Surrogate: Tetrachloro-meta-xylene	*29.2*		*ug/kg wet*	*33.314*		*87.7*	*28-166*		
Surrogate: Decachlorobiphenyl	*31.3*		*ug/kg wet*	*33.311*		*93.9*	*37-153*		
Matrix Spike (L006197-MS1)		**Source: 1006082-01**	Prepared: 06/17/2010 Analyzed: 06/23/2010						
alpha-BHC	31.1 D	1.36	ug/kg dry	34.025	1.33 U	91.3	61-142		
gamma-BHC	33.8 D	1.36	ug/kg dry	34.025	1.33 U	99.3	65-142		
beta-BHC	38.3 D	1.36	ug/kg dry	34.025	1.33 U	113	71-134		
delta-BHC	32.3 D	1.36	ug/kg dry	34.025	1.33 U	94.9	53-144		
Heptachlor	34.6 D	1.36	ug/kg dry	34.025	1.33 U	102	70-138		
Aldrin	33.8 D	1.36	ug/kg dry	34.025	1.33 U	99.2	70-143		
Heptachlor epoxide	35.4 D	1.36	ug/kg dry	34.025	1.33 U	104	72-140		
gamma-Chlordane	35.7 D	1.36	ug/kg dry	34.025	1.33 U	105	74-140		
alpha-Chlordane	36.7 D	1.36	ug/kg dry	34.025	1.33 U	108	74-138		
Endosulfan I	36.4 D	1.36	ug/kg dry	34.025	1.33 U	107	81-141		
4,4'-DDE	37.1 D	1.36	ug/kg dry	34.025	1.33 U	109	82-145		
Dieldrin	34.4 D	1.36	ug/kg dry	34.025	1.33 U	101	79-144		
Endrin	35.8 D	1.36	ug/kg dry	34.025	1.33 U	105	73-147		
4,4'-DDD	36.3 D	1.36	ug/kg dry	34.025	1.33 U	107	77-148		
Endosulfan II	36.4 D	1.36	ug/kg dry	34.025	1.33 U	107	80-140		
4,4'-DDT	27.3 D	1.36	ug/kg dry	34.025	1.33 U	80.2*	82-142		
Endrin aldehyde	35.1 D	1.36	ug/kg dry	34.025	1.33 U	103	59-133		
Endosulfan sulfate	36.5 D	1.36	ug/kg dry	34.025	1.33 U	107	77-135		
Methoxychlor	34.1 D	1.36	ug/kg dry	34.025	1.33 U	100	77-136		
Endrin ketone	37.9 D	1.36	ug/kg dry	34.025	1.33 U	112	85-134		
Surrogate: Tetrachloro-meta-xylene	*32.2*		*ug/kg dry*	*34.028*		*94.7*	*28-166*		
Surrogate: Decachlorobiphenyl	*38.4*		*ug/kg dry*	*34.025*		*113*	*37-153*		

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/28/2010 19:03

Organochlorine Pesticides by SW846 8081A - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L006197 - SW 3540C									
Matrix Spike Dup (L006197-MSD1)	**Source: 1006082-01**		Prepared: 06/17/2010 Analyzed: 06/23/2010						
alpha-BHC	29.3 D	1.33	ug/kg dry	33.379	1.33 U	87.9	61-142	3.79	40
gamma-BHC	32.2 D	1.33	ug/kg dry	33.379	1.33 U	96.4	65-142	2.96	40
beta-BHC	36.4 D	1.33	ug/kg dry	33.379	1.33 U	109	71-134	3.07	40
delta-BHC	30.3 D	1.33	ug/kg dry	33.379	1.33 U	90.8	53-144	4.42	40
Heptachlor	32.8 D	1.33	ug/kg dry	33.379	1.33 U	98.4	70-138	3.30	40
Aldrin	31.7 D	1.33	ug/kg dry	33.379	1.33 U	95.1	70-143	4.22	40
Heptachlor epoxide	33.9 D	1.33	ug/kg dry	33.379	1.33 U	102	72-140	2.43	40
gamma-Chlordane	34.0 D	1.33	ug/kg dry	33.379	1.33 U	102	74-140	2.71	40
alpha-Chlordane	35.2 D	1.33	ug/kg dry	33.379	1.33 U	106	74-138	2.06	40
Endosulfan I	34.7 D	1.33	ug/kg dry	33.379	1.33 U	104	81-141	2.85	40
4,4'-DDE	35.5 D	1.33	ug/kg dry	33.379	1.33 U	106	82-145	2.51	40
Dieldrin	33.0 D	1.33	ug/kg dry	33.379	1.33 U	99.0	79-144	2.20	40
Endrin	34.4 D	1.33	ug/kg dry	33.379	1.33 U	103	73-147	1.92	40
4,4'-DDD	34.3 D	1.33	ug/kg dry	33.379	1.33 U	103	77-148	3.53	40
Endosulfan II	34.8 D	1.33	ug/kg dry	33.379	1.33 U	104	80-140	2.46	40
4,4'-DDT	25.9 D	1.33	ug/kg dry	33.379	1.33 U	77.6*	82-142	3.30	40
Endrin aldehyde	33.7 D	1.33	ug/kg dry	33.379	1.33 U	101	59-133	1.96	40
Endosulfan sulfate	35.0 D	1.33	ug/kg dry	33.379	1.33 U	105	77-135	2.26	40
Methoxychlor	33.1 D	1.33	ug/kg dry	33.379	1.33 U	99.2	77-136	1.10	40
Endrin ketone	36.1 D	1.33	ug/kg dry	33.379	1.33 U	108	85-134	3.00	40
Surrogate: Tetrachloro-meta-xylene	*30.6*		*ug/kg dry*	*33.382*		*91.6*	*28-166*		
Surrogate: Decachlorobiphenyl	*38.2*		*ug/kg dry*	*33.379*		*114*	*37-153*		

PREPARATION BENCH SHEET

L006197

Lionville Laboratory

Printed: 6/23/2010 9:04:26AM

Matrix: Solid **Prepared using: GC - SW 3540C** **Surrogate used: 1001052**

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Client	Extraction Comments
1006082-01	8081A TCL Pesticides	06/17/2010 12:35	31.24	10				250	WC-Hanford, Inc.	
1006082-01	8082 PCBs	06/17/2010 12:35	31.24	10				250	WC-Hanford, Inc.	
1006082-02	8081A TCL Pesticides	06/17/2010 12:35	30.45	10				250	WC-Hanford, Inc.	
1006082-02	8082 PCBs	06/17/2010 12:35	30.45	10				250	WC-Hanford, Inc.	
1006082-03	8081A TCL Pesticides	06/17/2010 12:35	31	10				250	WC-Hanford, Inc.	
1006082-03	8082 PCBs	06/17/2010 12:35	31	10				250	WC-Hanford, Inc.	
1006082-04	8081A TCL Pesticides	06/17/2010 12:35	30.24	10				250	WC-Hanford, Inc.	
1006082-04	8082 PCBs	06/17/2010 12:35	30.24	10				250	WC-Hanford, Inc.	
1006082-05	8081A TCL Pesticides	06/17/2010 12:35	30	10				250	WC-Hanford, Inc.	
1006082-05	8082 PCBs	06/17/2010 12:35	30	10				250	WC-Hanford, Inc.	
1006082-06	8081A TCL Pesticides	06/17/2010 12:35	30.84	10				250	WC-Hanford, Inc.	
1006082-06	8082 PCBs	06/17/2010 12:35	30.84	10				250	WC-Hanford, Inc.	
1006082-07	8081A TCL Pesticides	06/17/2010 12:35	30.09	10				250	WC-Hanford, Inc.	
1006082-07	8082 PCBs	06/17/2010 12:35	30.09	10				250	WC-Hanford, Inc.	
1006082-08	8081A TCL Pesticides	06/17/2010 12:35	31.02	10				250	WC-Hanford, Inc.	
1006082-08	8082 PCBs	06/17/2010 12:35	31.02	10				250	WC-Hanford, Inc.	
1006082-09	8081A TCL Pesticides	06/17/2010 12:35	30.72	10				250	WC-Hanford, Inc.	
1006082-09	8082 PCBs	06/17/2010 12:35	30.72	10				250	WC-Hanford, Inc.	
1006082-10	8081A TCL Pesticides	06/17/2010 12:35	30.46	10				250	WC-Hanford, Inc.	
1006082-10	8082 PCBs	06/17/2010 12:35	30.46	10				250	WC-Hanford, Inc.	

Cu cleanup (E124021) SZ 6/23/10 9:30

Benjamin Harris 6/23/10 9:05 — Extracts Relinquished By — Date

Shah 6/23/10 9:15 — Extracts Received By — Date

PREPARATION BENCH SHEET

L006197

Lionville Laboratory

Printed: 6/23/2010 9:04:26AM

Matrix: Solid **Prepared using: GC - SW 3540C** **Surrogate used: 1001052**

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Client	Extraction Comments
1006082-11	8081A TCL Pesticides	06/17/2010 12:35	30.37	10				250	WC-Hanford, Inc.	
1006082-11	8082 PCBs	06/17/2010 12:35	30.37	10				250	WC-Hanford, Inc.	
1006082-12	8081A TCL Pesticides	06/17/2010 12:35	30.38	10				250	WC-Hanford, Inc.	
1006082-12	8082 PCBs	06/17/2010 12:35	30.38	10				250	WC-Hanford, Inc.	
1006082-13	8081A TCL Pesticides	06/17/2010 12:35	30.67	10				250	WC-Hanford, Inc.	
1006082-13	8082 PCBs	06/17/2010 12:35	30.67	10				250	WC-Hanford, Inc.	
L006197-BLK1	QC	06/17/2010 12:35	30.27	10				250		Pest
L006197-BLK2	QC	06/17/2010 12:35	30.27	10				250		PCB
L006197-BS1	QC	06/17/2010 12:35	30.02	10	1001086		250	250		Pest
L006197-BS2	QC	06/17/2010 12:35	30.19	10	1000526		250	250		PCB
L006197-MS1	QC	06/17/2010 12:35	30.48	10	1001086	1006082-01	250	250		Pest
L006197-MS2	QC	06/17/2010 12:35	30.65	10	1000526	1006082-01	250	250		PCB
L006197-MSD1	QC	06/17/2010 12:35	31.07	10	1001086	1006082-01	250	250		Pest
L006197-MSD2	QC	06/17/2010 12:35	30.37	10	1000526	1006082-01	250	250		PCB

Benjamin Harris 6/23/10 9:05 — Extracts Relinquished By — Date

S Shah 6/23/10 9:15 — Extracts Received By — Date

Lionville Laboratory Use Only

1006 082

Custody Transfer Record/Lab Work Request

Page 1 of 2

LVLI Lionville Laboratory Inc.

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Client: WCHANFORD SAF#RC-107

Est. Final Proj. Sampling Date:

Project#:

Project Contact/Phone#:

Lionville Laboratory Project Manager: O. JOHNSON

QC: SN Del: SN TAT: 21 Days

Date Rec'd: 6/17/10 Date Due: 7-8-10

	A	B	C		D	E		F				G			
Refrigerator #	VOA	2	2		2	2		2				2			
#/Type Container (~~Liquid~~ / Solid)	1AG	1AG	1AG		1AG	1AG		1				1			
Volume	60	120	60		120	120		125				125			
Preservatives	—	—	—		—	—		—				—			
ANALYSES REQUESTED →	ORGANIC: VOA	BNA	~~Pest~~ PCB	Herb	PAHs	Pest		INORG: Metal	~~Pb~~	Anions	Cr+6	NH3 NO2			

MATRIX CODES:	Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	VOA TCL	BNA TCL	PCB		8310	Pest		Metals		Anions	Cr+6	NH3 NO2			
S- Soil, SE- Sediment, SO- Solid, SL- Sludge, W- Water, O- Oil, A- Air, DS- Drum Solids, DL- Drum Liquids, L- EP/TCLP Leachate, WI- Wipe, X- Other, F- Fish	01	JIB 595			Soil	6/15/10	1105	X	X	X		X	X		X		X	X	X			
	02	96					1125	X	X	X		X	X		X		X	X	X			
	03	97					1145	X	X	X		X	X		X		X	X	X			
	04	98					1140	X	X	X		X	X		X		X	X	X			
	05	99					1245	X	X	X		X	X		X		X	X	X			
	06	B0					1305	X	X	X		X	X		X		X	X	X			
	07	B1					1325	X	X	X		X	X		X		X	X	X			
	08	B2					1320	X	X	X		X	X		X		X	X	X			
	09	B3					1330	X	X	X		X	X		X		X	X	X			
	10	B4					1340	X	X	X		X	X		X		X	X	X			

Lionville Laboratory Use Only

Special Instructions: MATRIX QC
Non Rad
JD.

METHOD = HS2 + B, Mo; Sr (NO TL)

Special Instructions:
1.
2.
3.
4.
5.
6.

Relinquished by	Received by	Date	Time
FedEx	[signature]	6/17/10	1020

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time

Lionville Laboratory Use Only

1006082

Custody Transfer Record/Lab Work Request

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

LVLI Lionville Laboratory Inc.

Client: WC Hanford SAF# BC-107

Est. Final Proj. Sampling Date:

Project#:

Project Contact/Phone#:

Lionville Laboratory Project Manager: O. Johnson

QC: JW Del: SHL TAT: 21 Days

Date Rec'd: 6-17-10 Date Due: 7-8-10

Refrigerator #		NOA	2	2		2	2		2			1	2			
#/Type Container	~~Liquid~~ Solid	1AG	1AG	1AG		1AG	1AG		1			1	1			
Volume		60	120	60		120	120		125			1	125			
Preservatives												1				
ANALYSES REQUESTED →		ORGANIC							INORG							
		VOA	BNA	~~Pest~~/PCB	~~Herb~~	PAHs	PEST		Metal ~~Hg~~	~~Cn~~	IC Anions	CrT6	NO2 NO3			

MATRIX CODES:
- S- Soil
- SE- Sediment
- SO- Solid
- SL- Sludge
- W- Water
- O- Oil
- A- Air
- DS- Drum Solids
- DL- Drum Liquids
- L- EP/TCLP Leachate
- WI- Wipe
- X- Other
- F- Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	Lionville Laboratory Use Only														
11	TIB5B5			Soil	6-15-10	1355	X	X	X		X	X		X		X	X	X			
12	B6					1400	X	X	X		X	X		X		X	X	X			
13	B7					1145	X	X	X		X	X		X		X	X	X			
14	D3					0845	X	VH	6/17/10												

Special Instructions:

Special Instructions:
1.
2.
3.
4.
5.
6.

Relinquished by	Received by	Date	Time
Fed Ex	[illegible]	6/17/10	1020

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time

C2888825

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-035	Page 1 of 3

Collector: J. Sellers	Company Contact: Don Woolery Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH	Price Code: 8L Data Turnaround: 21 Days
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Drain Field Excavation Area	SAF No.: RC-107	
Ice Chest No.: WCH-08-034	Field Logbook No.: EL 1627-4 COA: 0607H32000	Method of Shipment: Fed Ex	
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: A 100 220	Bill of Lading/Air Bill No.: See OSPC	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C		
Type of Container	G/P	G/P	G/P	G/P	aG	aG	aG	aG	aG		
No. of Container(s)	1	0	0	1	1	1	1	1	1		
Volume	125mL	60mL	60mL	125mL	60mL	120mL	60mL	120mL	120mL		
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	NO2/NO3 - 353.2	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081		
Sample No.	Matrix *	Sample Date	Sample Time								
J1B595	SOIL	6-15-10	1105	X	X	X	X	X	X	X	X	X	
J1B596	SOIL	6-15-10	1125	X	X	X	X	X	X	X	X	X	
J1B597	SOIL	6-15-10	1145	X	X	X	X	X	X	X	X	X	
J1B598	SOIL	6-15-10	1140	X	X	X	X	X	X	X	X	X	
J1B599	SOIL	6-15-10	1245	X	X	X	X	X	X	X	X	X	

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From: J. Sellers	Date/Time: 6-15-10 1440	Received By/Stored In: Sterling Howell	Date/Time: 6-15-10 1440
Relinquished By/Removed From: Sterling Howell	Date/Time: 6-15-10 1645	Received By/Stored In: Daniel Hernan	Date/Time: 6-15-10 / 1645
Relinquished By/Removed From: Daniel Hernan WCH	Date/Time: 6-16-10 / 1000	Received By/Stored In: FED EX	Date/Time:
Relinquished By/Removed From: FedEx	Date/Time: 6-17-10 1020	Received By/Stored In: VICTOR HERNANDEZ	Date/Time: 6-17-10 1020
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)
(2) IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}

REVIEWED BY JEB
DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wi=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-035	Page 2 of 3

Collector: J. Sellers	Company Contact: Don Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Drain Field Excavation Area		SAF No.: RC-107
Ice Chest No.: WCH-08-034	Field Logbook No.: EL 1627-4	COA: 0607H32000	Method of Shipment: Fed Ex
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: A 100220		Bill of Lading/Air Bill No.: See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C		
Type of Container	G/P	G/P	G/P	G/P	aG	aG	aG	aG	aG		
No. of Container(s)	1	0	0	1	1	1	1	1	1		
Volume	125mL	60mL	60mL	125mL	60mL	120mL	60mL	120mL	120mL		
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	NO2/NO3 - 353.2	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081		

Sample No.	Matrix *	Sample Date	Sample Time										
J1B5B0	SOIL	6-15-10	1305	X	X	X	X	X	X	X	X	X	
J1B5B1	SOIL	6-15-10	1325	X	X	X	X	X	X	X	X	X	
J1B5B2	SOIL	6-15-10	1320	X	X	X	X	X	X	X	X	X	
J1B5B3	SOIL	6-15-10	1330	X	X	X	X	X	X	X	X	X	
J1B5B4	SOIL	6-15-10	1340	X	X	X	X	X	X	X	X	X	

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J. Sellers Josh Sellers	6-15-10 1440	Starling Howell	6-15-10 1440
Starling Howell	6-15-10 1645	Daniel Herrera	6-15-10 1645
Daniel Herrera (WCH)	6-16-10 1000	FED EX	
	6-17-10 1020	Victoria Hernandez	6-17-10 1020

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc); Mercury - 7471 - (CV)
(2) IC Anions - 300.0 (Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate)

REVIEWED BY JEB DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-035	Page 3 of 3

Collector: J. Sellers	Company Contact: Don Woolery Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH	Price Code: 8L Data Turnaround: 21 Days
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Drain Field Excavation Area	SAF No.: RC-107	
Ice Chest No.: WCH-08-034	Field Logbook No.: EL 1627-4 COA: 0607H32000	Method of Shipment: Fed Ex	
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: A100220	Bill of Lading/Air Bill No.: See OSPC	

POSSIBLE SAMPLE HAZARDS/REMARKS

None.

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C		
Type of Container	G/P	G/P	G/P	G/P	aG	aG	aG	aG	aG		
No. of Container(s)	1	0	0	1	1	1	1	1	1		
Volume	125mL	60mL	60mL	125mL	60mL	120mL	60mL	120mL	120mL		
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	NO2/NO3 - 353.2	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081		
Sample No. / Matrix * / Sample Date / Sample Time											
J1B5B5 / SOIL / 6-15-10 / 1355	X	X	X	X	X	X	X	X	X		
J1B5B6 / SOIL / 6-15-10 / 1400	X	X	X	X	X	X	X	X	X		
J1B5B7 / SOIL / 6-15-10 / 1145	X	X	X	X	X	X	X	X	X		

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J. Sellers Josh Sellers	6-15-10 1440	Sterling Howell	6-15-10 1440
Sterling Howell	6-15-10 1645	Daniel Herrera	6-15-10 1645
Daniel Herrera (WCH)	6-16-10 1000	FED EX	
FED EX	6-17-10 1020	VICTOR HERNANDEZ	6-17-10 1020

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)
(2) IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}

REVIEWED BY JEB
DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-037	Page 1 of 1

Collector: J. Sellers	Company Contact: Don Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Trip Blanks		SAF No.: RC-107
Ice Chest No.: WCH-08-034	Field Logbook No.: EL 1627-4	COA: 0607H32000	Method of Shipment: Fed Ex
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: A100220		Bill of Lading/Air Bill No.: See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	Cool 4C											
Type of Container	aG											
No. of Container(s)	1											
Volume	60mL											
SAMPLE ANALYSIS	VOA - 8260A (TCL)											

Sample No.	Matrix *	Sample Date	Sample Time										
~~J1B5D2~~	~~SOIL~~	6/15/10											
J1B5D3	SOIL	6-15-10	~~0840~~ 0845 ~~6-15-10~~	X									

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J. Sellers	6-15-10 1440	Sterling Howell	6-15-10 1440
Sterling Howell	6-15-10 1645	David Herrera	6-15-10 1645
David Herrera (WCH)	6-16-10 1000	FED EX	
	6/17/10 1010	VICTOR HERNANDEZ	6-17-10 1010
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

REVIEWED BY JEB
DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Lionville Laboratory

SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: WCH Hanford
Project/SAF/SOW/Release #: RC-107

Date: 6/17/10

LvL Batch #: 1006082

Sample Custodian: [signature]

NOTE. EXPLAIN ALL DISCREPANCIES

1. Samples Hand Delivered or Shipped?	Carrier FED EX		Airbill # 7936 4256 7389 7437 7470
2. Custody Seals on coolers or shipping containers intact, signed & dated?	☑ Yes	☐ No	☐ No Seals
3. Outside of coolers or shipping containers are free from damage?	☑ Yes	☐ No	Comments: Cooler outside Cracked inside
4. All expected paperwork received (coc & other client specific information) sealed in plactic bag and easily accessible?	☑ Yes	☐ No	
5. Samples received cooled or ambient?	Temp 2.1 2.2 3.2	°C	Cooler # WCH-08-034 025 BHI-94
How was the temperature taken?	☑ IR	☐ Temp. Blank	☐ Other (Specify)
Is the Temp. Criteria met for these samples? (Hg in soils @ 4°C)	☑ Yes	☐ No	
6. Custody seals on sample containers intact. signed and dated?	☑ Yes	☐ No	☐ No Seals
7. COC (Client & LvL) signed & dated?	☑ Yes	☐ No	
8. Sample containers are intact?	☑ Yes	☐ No	
9. All samples on COC received?	☑ Yes	☐ No	
All samples received on COC?	☑ Yes	☐ No	
10. All sample label information matches COC?	☑ Yes	☐ No	
11. Samples properly preserved? (If #5 is no. then this is no.)	☑ Yes	☐ No	
12. Samples received within hold times?	☑ Yes	☐ No	
Short holds taken to wet lab?	☐ Yes	☐ No	☑ N/A
13. VOA. TOC. TOX free of headspace?	☑ Yes	☐ No	☐ N/A
14. QC stickers placed on bottles designated by client?	☐ Yes	☐ No	☑ N/A
15. Shipment meets LvL Sample Acceptance Policy? (Identify all bottles that do not meet the policy. which is on the reverse of this page.)	☑ Yes	☐ No	
16. Project Manager contacted concerning any discrepancies?	☐ Yes	☐ No	☑ N/A
Person Contacted _____		Date _____	

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	07/02/2010 08:14

Analytical Report for Metals by SW846 6000/7000 series

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
J1B595	1006082-01	Soil	06/15/2010 11:05	06/17/2010 10:20
J1B596	1006082-02	Soil	06/15/2010 11:25	06/17/2010 10:20
J1B597	1006082-03	Soil	06/15/2010 11:45	06/17/2010 10:20
J1B598	1006082-04	Soil	06/15/2010 11:40	06/17/2010 10:20
J1B599	1006082-05	Soil	06/15/2010 12:45	06/17/2010 10:20
J1B5B0	1006082-06	Soil	06/15/2010 13:05	06/17/2010 10:20
J1B5B1	1006082-07	Soil	06/15/2010 13:25	06/17/2010 10:20
J1B5B2	1006082-08	Soil	06/15/2010 13:20	06/17/2010 10:20
J1B5B3	1006082-09	Soil	06/15/2010 13:30	06/17/2010 10:20
J1B5B4	1006082-10	Soil	06/15/2010 13:40	06/17/2010 10:20
J1B5B5	1006082-11	Soil	06/15/2010 13:55	06/17/2010 10:20
J1B5B6	1006082-12	Soil	06/15/2010 14:00	06/17/2010 10:20
J1B5B7	1006082-13	Soil	06/15/2010 11:45	06/17/2010 10:20

LIONVILLE LABORATORY
A division of Eberline Analytical Corporation

264 Welsh Pool Road
Exton, Pennsylvania 19341
Phone (610) 280-3000
Fax (610) 280-3041

Case Narrative

Client: WC-HANFORD RC-107
LVL#: 1006082
SDG/SAF#: K2099/RC-107

W.O.#: 60049-001-001-0001-00
Date Received: 06-17-10

METALS

The following is a summary of the QC results accompanying the sample results. Lionville Laboratory (LvL) certifies that all test results meet the requirements of NELAC except as noted below.

All soil samples are reported on a dry weight basis unless requested by the client, required by the method, or noted otherwise.

1. This narrative covers the analyses of 13 soil samples.

2. The samples were prepared and analyzed in accordance with methods listed on the data report forms.

3. All analyses were performed within the required holding times.

4. Please refer to the Sample Receipt Check List for any sample discrepancies in LvLI's sample acceptance policy.

5. All Initial and Continuing Calibration Verifications (ICV/CCVs) were within the 90-110% control limits (80-120% for Mercury).

6. All Initial and Continuing Calibration Blanks (ICB/CCBs) were within control limits (less than the LOQ).

7. All preparation/method blanks (MB) were within method criteria {less than the Limit of Quantitation (3-10X the LOD), samples were greater than 20X MB value}.

8. All ICP Interference Check Standards were within control limits.

9. All Standard Reference Material (SRM) analytes were within the Prediction Interval control limits supplied by the manufacturer.

10. The matrix spike (MS) recoveries for 7 analytes were outside the 75-125% control limits.

11. For analytes where the ICP MS is out-of-control, a post-digestion MS (PDS) and serial dilution are performed. A PDS was prepared at meaningful concentration level for the

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 31 pages.

following analytes:

Sample ID	Element	PDS Concentration (ppb)	PDS % Recovery
J1B595	Antimony	100	116.0
	Aluminum	22,000	77.9
	Iron	42,000	59.2
	Chromium	100	106.1
	Magnesium	21,600	69.3
	Manganese	1,000	68.0
	Silicon	2,600	101.9

12. The duplicate analysis for 1 analyte was outside the 20% Relative Percent Difference (RPD) control limit critieria. The ± 20% RPD control limit applies to sample results greater than ten times the MDL.

13. For the purposes of this report, the data have been reported to the Limit of Detection (LOD). Values between the LOD and the Limit of Quantitation (LOQ) are acquired in a region of less-certain quantification.

14. LvL is NELAP accredited by the State of Pennsylvania. For a complete listing of accrediting authorities and the corresponding analytes/methods, please contact your Project Manager.

15. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard-copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

Iain Daniels
Laboratory Manager
Lionville Laboratory

7/16/10
Date

alm/06-082

264 Welsh Pool Road
Exton, PA 19341
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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	07/02/2010 08:14

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
B	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag)
*	Value outside QC acceptance criteria
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
wet	Sample results reported on a wet weight basis
RPD	Relative Percent Difference

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/02/2010 08:14

J1B595

1006082-01 (Soil)

Analyte	Result and Qualifier		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory									
Metals by SW846 6000/7000 series									
Aluminum	**7840**		15.7	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Antimony	0.786	U	0.786	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Arsenic	**2.64**		0.786	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Barium	**60.0**		0.393	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Beryllium	**0.248**		0.157	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Boron	**1.49**	B	1.57	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cadmium	**0.104**	B	0.196	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Calcium	**4250**		15.7	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Chromium	**12.9**		0.786	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cobalt	**5.83**		2.36	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Copper	**12.6**		1.57	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Iron	**16900**		15.7	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Lead	**4.25**		0.786	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Magnesium	**4380**		3.93	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Manganese	**282**		0.786	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Molybdenum	**0.351**	B	0.786	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Nickel	**10.7**		1.96	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Potassium	**1180**		78.6	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Selenium	0.236	U	0.236	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silicon	**1010**		4.71	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silver	0.786	U	0.786	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Sodium	**264**		39.3	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Vanadium	**42.8**		0.786	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Zinc	**34.3**		2.36	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Mercury	0.0283	U	0.0283	mg/kg dry	1	L006296	06/30/2010	07/01/2010	7471A

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	07/02/2010 08:14

J1B596

1006082-02 (Soil)

Analyte	Result and Qualifier		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory									
Metals by SW846 6000/7000 series									
Aluminum	**5600**		18.4	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Antimony	0.918	U	0.918	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Arsenic	**1.99**		0.918	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Barium	**40.1**		0.459	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Beryllium	**0.163**	B	0.184	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Boron	**0.927**	B	1.84	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cadmium	**0.0811**	B	0.230	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Calcium	**4970**		18.4	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Chromium	**9.12**		0.918	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cobalt	**4.83**		2.76	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Copper	**13.3**		1.84	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Iron	**13900**		18.4	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Lead	**3.41**		0.918	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Magnesium	**3690**		4.59	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Manganese	**221**		0.918	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Molybdenum	**0.278**	B	0.918	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Nickel	**8.80**		2.30	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Potassium	**719**		91.8	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Selenium	0.276	U	0.276	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silicon	**331**		5.51	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silver	0.918	U	0.918	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Sodium	**175**		45.9	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Vanadium	**39.3**		0.918	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Zinc	**28.9**		2.76	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Mercury	0.0239	U	0.0239	mg/kg dry	1	L006296	06/30/2010	07/01/2010	7471A

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	07/02/2010 08:14

J1B597

1006082-03 (Soil)

Analyte	Result and Qualifier		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
			Lionville Laboratory						
Metals by SW846 6000/7000 series									
Aluminum	**5530**		16.3	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Antimony	0.816	U	0.816	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Arsenic	**1.72**		0.816	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Barium	**46.1**		0.408	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Beryllium	**0.151**	B	0.163	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Boron	**0.894**	B	1.63	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cadmium	**0.101**	B	0.204	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Calcium	**2930**		16.3	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Chromium	**9.09**		0.816	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cobalt	**5.27**		2.45	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Copper	**12.4**		1.63	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Iron	**14300**		16.3	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Lead	**2.80**		0.816	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Magnesium	**3900**		4.08	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Manganese	**238**		0.816	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Molybdenum	**0.247**	B	0.816	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Nickel	**10.7**		2.04	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Potassium	**727**		81.6	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Selenium	0.245	U	0.245	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silicon	**307**		4.89	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silver	0.816	U	0.816	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Sodium	**162**		40.8	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Vanadium	**40.3**		0.816	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Zinc	**32.0**		2.45	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Mercury	0.0276	U	0.0276	mg/kg dry	1	L006296	06/30/2010	07/01/2010	7471A

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/02/2010 08:14

J1B598

1006082-04 (Soil)

Analyte	Result and Qualifier		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory									
Metals by SW846 6000/7000 series									
Aluminum	**5610**		17.4	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Antimony	0.872	U	0.872	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Arsenic	**1.94**		0.872	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Barium	**43.1**		0.436	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Beryllium	**0.142**	B	0.174	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Boron	**0.840**	B	1.74	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cadmium	**0.0800**	B	0.218	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Calcium	**5050**		17.4	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Chromium	**9.18**		0.872	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cobalt	**4.78**		2.61	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Copper	**12.8**		1.74	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Iron	**14400**		17.4	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Lead	**2.49**		0.872	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Magnesium	**3870**		4.36	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Manganese	**257**		0.872	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Molybdenum	**0.231**	B	0.872	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Nickel	**8.16**		2.18	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Potassium	**644**		87.2	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Selenium	0.261	U	0.261	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silicon	**468**		5.23	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silver	0.872	U	0.872	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Sodium	**163**		43.6	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Vanadium	**40.2**		0.872	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Zinc	**29.9**		2.61	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Mercury	0.0253	U	0.0253	mg/kg dry	1	L006296	06/30/2010	07/01/2010	7471A

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WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-107 Project Number: K2099 Project Manager: Joan Kessner	**Reported:** 07/02/2010 08:14

J1B599
1006082-05 (Soil)

Analyte	Result and Qualifier		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
			Lionville Laboratory						
Metals by SW846 6000/7000 series									
Aluminum	**5860**		14.5	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Antimony	0.726	U	0.726	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Arsenic	**2.03**		0.726	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Barium	**41.7**		0.363	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Beryllium	**0.164**		0.145	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Boron	**0.857**	B	1.45	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cadmium	**0.0830**	B	0.181	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Calcium	**5240**		14.5	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Chromium	**9.66**		0.726	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cobalt	**5.23**		2.18	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Copper	**12.6**		1.45	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Iron	**14700**		14.5	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Lead	**6.80**		0.726	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Magnesium	**3700**		3.63	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Manganese	**232**		0.726	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Molybdenum	**0.214**	B	0.726	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Nickel	**9.05**		1.81	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Potassium	**788**		72.6	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Selenium	0.218	U	0.218	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silicon	**319**		4.35	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silver	0.726	U	0.726	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Sodium	**177**		36.3	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Vanadium	**40.8**		0.726	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Zinc	**30.1**		2.18	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Mercury	0.0277	U	0.0277	mg/kg dry	1	L006296	06/30/2010	07/01/2010	7471A

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	07/02/2010 08:14

J1B5B0

1006082-06 (Soil)

Analyte	Result and Qualifier		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory									
Metals by SW846 6000/7000 series									
Aluminum	**7270**		14.3	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Antimony	0.717	U	0.717	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Arsenic	**2.45**		0.717	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Barium	**53.7**		0.358	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Beryllium	**0.211**		0.143	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Boron	**1.16**	B	1.43	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cadmium	**0.0899**	B	0.179	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Calcium	**4380**		14.3	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Chromium	**10.4**		0.717	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cobalt	**5.64**		2.15	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Copper	**13.5**		1.43	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Iron	**16200**		14.3	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Lead	**3.51**		0.717	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Magnesium	**4030**		3.58	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Manganese	**262**		0.717	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Molybdenum	**0.286**	B	0.717	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Nickel	**10.1**		1.79	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Potassium	**1060**		71.7	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Selenium	0.215	U	0.215	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silicon	**526**		4.30	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silver	0.717	U	0.717	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Sodium	**201**		35.8	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Vanadium	**42.0**		0.717	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Zinc	**35.7**		2.15	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Mercury	0.0285	U	0.0285	mg/kg dry	1	L006296	06/30/2010	07/01/2010	7471A

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/02/2010 08:14

J1B5B1
1006082-07 (Soil)

Analyte	Result and Qualifier		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory									
Metals by SW846 6000/7000 series									
Aluminum	**5810**		14.7	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Antimony	0.737	U	0.737	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Arsenic	**1.95**		0.737	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Barium	**43.0**		0.368	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Beryllium	**0.162**		0.147	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Boron	**0.766**	B	1.47	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cadmium	**0.0931**	B	0.184	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Calcium	**3440**		14.7	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Chromium	**11.2**		0.737	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cobalt	**5.20**		2.21	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Copper	**12.8**		1.47	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Iron	**14400**		14.7	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Lead	**2.48**		0.737	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Magnesium	**4000**		3.68	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Manganese	**246**		0.737	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Molybdenum	**0.231**	B	0.737	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Nickel	**10.1**		1.84	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Potassium	**679**		73.7	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Selenium	0.221	U	0.221	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silicon	**378**		4.42	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silver	0.737	U	0.737	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Sodium	**179**		36.8	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Vanadium	**40.5**		0.737	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Zinc	**34.4**		2.21	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Mercury	**0.0156**	B	0.0265	mg/kg dry	1	L006296	06/30/2010	07/01/2010	7471A

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WC-Hanford, Inc.	Project: RC-107	
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Richland WA, 99354	Project Manager: Joan Kessner	07/02/2010 08:14

J1B5B2

1006082-08 (Soil)

Analyte	Result and Qualifier		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory									
Metals by SW846 6000/7000 series									
Aluminum	**5740**		14.9	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Antimony	0.743	U	0.743	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Arsenic	**2.06**		0.743	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Barium	**38.5**		0.372	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Beryllium	**0.140**	B	0.149	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Boron	**0.775**	B	1.49	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cadmium	**0.0820**	B	0.186	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Calcium	**7930**		14.9	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Chromium	**9.99**		0.743	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cobalt	**4.65**		2.23	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Copper	**11.9**		1.49	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Iron	**14000**		14.9	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Lead	**2.43**		0.743	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Magnesium	**3890**		3.72	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Manganese	**225**		0.743	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Molybdenum	**0.248**	B	0.743	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Nickel	**9.15**		1.86	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Potassium	**655**		74.3	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Selenium	0.223	U	0.223	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silicon	**807**		4.46	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silver	0.743	U	0.743	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Sodium	**220**		37.2	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Vanadium	**42.7**		0.743	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Zinc	**28.8**		2.23	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Mercury	0.0246	U	0.0246	mg/kg dry	1	L006296	06/30/2010	07/01/2010	7471A

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Richland WA, 99354	Project Manager: Joan Kessner	07/02/2010 08:14

J1B5B3

1006082-09 (Soil)

Analyte	Result and Qualifier		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory									
Metals by SW846 6000/7000 series									
Aluminum	**5320**		16.2	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Antimony	0.811	U	0.811	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Arsenic	**1.85**		0.811	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Barium	**36.8**		0.405	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Beryllium	**0.148**	B	0.162	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Boron	**0.654**	B	1.62	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cadmium	**0.0741**	B	0.203	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Calcium	**3480**		16.2	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Chromium	**8.32**		0.811	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cobalt	**4.66**		2.43	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Copper	**12.7**		1.62	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Iron	**13000**		16.2	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Lead	**3.11**		0.811	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Magnesium	**3560**		4.05	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Manganese	**236**		0.811	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Molybdenum	**0.206**	B	0.811	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Nickel	**8.12**		2.03	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Potassium	**577**		81.1	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Selenium	0.243	U	0.243	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silicon	**312**		4.86	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silver	0.811	U	0.811	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Sodium	**155**		40.5	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Vanadium	**38.6**		0.811	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Zinc	**28.4**		2.43	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Mercury	0.0266	U	0.0266	mg/kg dry	1	L006296	06/30/2010	07/01/2010	7471A

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Richland WA, 99354	Project Manager: Joan Kessner	07/02/2010 08:14

J1B5B4

1006082-10 (Soil)

Analyte	Result and Qualifier		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory									
Metals by SW846 6000/7000 series									
Aluminum	**6700**		15.0	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Antimony	0.748	U	0.748	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Arsenic	**2.29**		0.748	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Barium	**49.1**		0.374	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Beryllium	**0.196**		0.150	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Boron	**1.08**	B	1.50	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cadmium	**0.0866**	B	0.187	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Calcium	**4340**		15.0	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Chromium	**9.85**		0.748	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cobalt	**5.37**		2.24	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Copper	**13.8**		1.50	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Iron	**15300**		15.0	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Lead	**3.44**		0.748	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Magnesium	**3830**		3.74	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Manganese	**247**		0.748	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Molybdenum	**0.234**	B	0.748	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Nickel	**9.62**		1.87	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Potassium	**971**		74.8	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Selenium	0.224	U	0.224	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silicon	**399**		4.49	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silver	0.748	U	0.748	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Sodium	**202**		37.4	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Vanadium	**39.9**		0.748	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Zinc	**31.7**		2.24	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Mercury	0.0241	U	0.0241	mg/kg dry	1	L006296	06/30/2010	07/01/2010	7471A

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	07/02/2010 08:14

J1B5B5

1006082-11 (Soil)

Analyte	Result and Qualifier		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory									
Metals by SW846 6000/7000 series									
Aluminum	**7440**		20.0	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Antimony	0.998	U	0.998	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Arsenic	**2.46**		0.998	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Barium	**57.2**		0.499	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Beryllium	**0.228**		0.200	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Boron	**1.44**	B	2.00	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cadmium	**0.0955**	B	0.250	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Calcium	**4730**		20.0	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Chromium	**9.91**		0.998	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cobalt	**5.96**		3.00	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Copper	**14.0**		2.00	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Iron	**16600**		20.0	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Lead	**3.99**		0.998	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Magnesium	**3820**		4.99	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Manganese	**264**		0.998	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Molybdenum	**0.229**	B	0.998	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Nickel	**11.9**		2.50	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Potassium	**1130**		99.8	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Selenium	0.300	U	0.300	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silicon	**529**		5.99	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silver	0.998	U	0.998	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Sodium	**210**		49.9	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Vanadium	**42.7**		0.998	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Zinc	**35.2**		3.00	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Mercury	0.0253	U	0.0253	mg/kg dry	1	L006296	06/30/2010	07/01/2010	7471A

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	07/02/2010 08:14

J1B5B6

1006082-12 (Soil)

Analyte	Result and Qualifier		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory									
Metals by SW846 6000/7000 series									
Aluminum	**6180**		14.8	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Antimony	0.739	U	0.739	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Arsenic	**2.16**		0.739	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Barium	**43.1**		0.369	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Beryllium	**0.168**		0.148	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Boron	**1.11**	B	1.48	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cadmium	**0.0828**	B	0.185	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Calcium	**3950**		14.8	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Chromium	**10.1**		0.739	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cobalt	**5.13**		2.22	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Copper	**12.8**		1.48	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Iron	**14600**		14.8	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Lead	**2.66**		0.739	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Magnesium	**3780**		3.69	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Manganese	**232**		0.739	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Molybdenum	**0.192**	B	0.739	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Nickel	**8.76**		1.85	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Potassium	**779**		73.9	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Selenium	0.222	U	0.222	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silicon	**488**		4.43	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silver	0.739	U	0.739	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Sodium	**188**		36.9	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Vanadium	**42.1**		0.739	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Zinc	**30.9**		2.22	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Mercury	0.0274	U	0.0274	mg/kg dry	1	L006296	06/30/2010	07/01/2010	7471A

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/02/2010 08:14

J1B5B7

1006082-13 (Soil)

Analyte	Result and Qualifier		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory									
Metals by SW846 6000/7000 series									
Aluminum	**5950**		15.3	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Antimony	0.766	U	0.766	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Arsenic	**1.83**		0.766	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Barium	**53.3**		0.383	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Beryllium	**0.176**		0.153	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Boron	**0.776**	B	1.53	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cadmium	**0.105**	B	0.191	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Calcium	**3230**		15.3	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Chromium	**8.18**		0.766	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Cobalt	**5.38**		2.30	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Copper	**14.2**		1.53	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Iron	**15000**		15.3	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Lead	**2.79**		0.766	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Magnesium	**3610**		3.83	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Manganese	**258**		0.766	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Molybdenum	**0.217**	B	0.766	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Nickel	**8.59**		1.91	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Potassium	**748**		76.6	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Selenium	0.230	U	0.230	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silicon	**854**		4.59	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Silver	0.766	U	0.766	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Sodium	**204**		38.3	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Vanadium	**43.4**		0.766	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Zinc	**32.6**		2.30	mg/kg dry	1	L006235	06/22/2010	06/30/2010	6010B
Mercury	0.0253	U	0.0253	mg/kg dry	1	L006296	06/30/2010	07/01/2010	7471A

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WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-107 Project Number: K2099 Project Manager: Joan Kessner	**Reported:** 07/02/2010 08:14

Metals by SW846 6000/7000 series - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers		Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L006235 - SW 3050B										
Blank (L006235-BLK1)				Prepared: 06/22/2010 Analyzed: 06/30/2010						
Aluminum	14.3	U	14.3	mg/kg wet						
Antimony	0.714	U	0.714	mg/kg wet						
Arsenic	0.714	U	0.714	mg/kg wet						
Barium	0.357	U	0.357	mg/kg wet						
Beryllium	0.143	U	0.143	mg/kg wet						
Boron	1.43	U	1.43	mg/kg wet						
Cadmium	0.179	U	0.179	mg/kg wet						
Calcium	14.3	U	14.3	mg/kg wet						
Chromium	0.714	U	0.714	mg/kg wet						
Cobalt	2.14	U	2.14	mg/kg wet						
Copper	1.43	U	1.43	mg/kg wet						
Iron	14.3	U	14.3	mg/kg wet						
Lead	0.714	U	0.714	mg/kg wet						
Magnesium	3.57	U	3.57	mg/kg wet						
Manganese	0.714	U	0.714	mg/kg wet						
Molybdenum	0.714	U	0.714	mg/kg wet						
Nickel	1.79	U	1.79	mg/kg wet						
Potassium	71.4	U	71.4	mg/kg wet						
Selenium	0.214	U	0.214	mg/kg wet						
Silicon	4.29	U	4.29	mg/kg wet						
Silver	0.714	U	0.714	mg/kg wet						
Sodium	35.7	U	35.7	mg/kg wet						
Vanadium	0.714	U	0.714	mg/kg wet						
Zinc	2.14	U	2.14	mg/kg wet						
Duplicate (L006235-DUP1)		**Source: 1006082-01**		Prepared: 06/22/2010 Analyzed: 06/30/2010						
Aluminum	7450		16.7	mg/kg dry		7840			5	20
Antimony	0.836	U	0.836	mg/kg dry		0.786 U				20
Arsenic	2.80		0.836	mg/kg dry		2.64			6	20
Barium	59.3		0.418	mg/kg dry		60.0			1	20
Beryllium	0.212		0.167	mg/kg dry		0.248			16	20
Boron	1.28	B	1.67	mg/kg dry		1.49			15	20
Cadmium	0.114	B	0.209	mg/kg dry		0.104			9	20
Calcium	4380		16.7	mg/kg dry		4250			3	20
Chromium	10.3		0.836	mg/kg dry		12.9			22*	20
Cobalt	5.86		2.51	mg/kg dry		5.83			0.4	20
Copper	12.4		1.67	mg/kg dry		12.6			1	20

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/02/2010 08:14

Metals by SW846 6000/7000 series - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers		Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L006235 - SW 3050B										
Duplicate (L006235-DUP1)		**Source: 1006082-01**		Prepared: 06/22/2010 Analyzed: 06/30/2010						
Iron	17100		16.7	mg/kg dry		16900			1	20
Lead	4.01		0.836	mg/kg dry		4.25			6	20
Magnesium	3920		4.18	mg/kg dry		4380			11	20
Manganese	279		0.836	mg/kg dry		282			1	20
Molybdenum	0.353	B	0.836	mg/kg dry		0.351			0.6	20
Nickel	9.02		2.09	mg/kg dry		10.7			17	20
Potassium	1150		83.6	mg/kg dry		1180			2	20
Selenium	0.251	U	0.251	mg/kg dry		0.236 U				20
Silicon	1100		5.02	mg/kg dry		1010			9	20
Silver	0.836	U	0.836	mg/kg dry		0.786 U				20
Sodium	243		41.8	mg/kg dry		264			8	20
Vanadium	44.7		0.836	mg/kg dry		42.8			4	20
Zinc	33.9		2.51	mg/kg dry		34.3			1	20
Matrix Spike (L006235-MS1)		**Source: 1006082-01**		Prepared: 06/22/2010 Analyzed: 06/30/2010						
Aluminum	8410		14.8	mg/kg dry	148.15	7840	385*	75-125		
Antimony	15.3		0.741	mg/kg dry	37.038	0.786 U	41*	75-125		
Arsenic	138		0.741	mg/kg dry	148.15	2.64	91	75-125		
Barium	198		0.370	mg/kg dry	148.15	60.0	93	75-125		
Beryllium	3.52		0.148	mg/kg dry	3.7038	0.248	88	75-125		
Boron	64.3		1.48	mg/kg dry	74.077	1.49	85	75-125		
Cadmium	3.37		0.185	mg/kg dry	3.7038	0.104	88	75-125		
Calcium	6250		14.8	mg/kg dry	1851.9	4250	108	75-125		
Chromium	23.6		0.741	mg/kg dry	14.815	12.9	73*	75-125		
Cobalt	37.9		2.22	mg/kg dry	37.038	5.83	87	75-125		
Copper	29.5		1.48	mg/kg dry	18.519	12.6	91	75-125		
Iron	16500		14.8	mg/kg dry	74.077	16900	-657*	75-125		
Lead	34.7		0.741	mg/kg dry	37.038	4.25	82	75-125		
Magnesium	5640		3.70	mg/kg dry	1851.9	4380	68*	75-125		
Manganese	302		0.741	mg/kg dry	37.038	282	55*	75-125		
Molybdenum	66.1		0.741	mg/kg dry	74.077	0.351	89	75-125		
Nickel	41.3		1.85	mg/kg dry	37.038	10.7	83	75-125		
Potassium	2840		74.1	mg/kg dry	1851.9	1180	90	75-125		
Selenium	124		0.222	mg/kg dry	148.15	0.236 U	84	75-125		
Silicon	658		4.44	mg/kg dry	74.077	1010	-471*	75-125		
Silver	2.93		0.741	mg/kg dry	3.7038	0.786 U	79	75-125		
Sodium	2040		37.0	mg/kg dry	1851.9	264	96	75-125		

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/02/2010 08:14

Metals by SW846 6000/7000 series - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L006235 - SW 3050B									
Matrix Spike (L006235-MS1)		**Source: 1006082-01**	Prepared: 06/22/2010 Analyzed: 06/30/2010						
Vanadium	76.2	0.741	mg/kg dry	37.038	42.8	90	75-125		
Zinc	65.7	2.22	mg/kg dry	37.038	34.3	85	75-125		
Reference (L006235-SRM1)			Prepared: 06/22/2010 Analyzed: 06/30/2010						
Aluminum	7930	53.6	mg/kg wet	6766.6		117	0-225.5		
Antimony	39.8	2.68	mg/kg wet	56.630		70	0-225.6		
Arsenic	116	2.68	mg/kg wet	113.85		102	85-115		
Barium	297	1.34	mg/kg wet	298.35		99	75.7-124.3		
Beryllium	109	0.536	mg/kg wet	108.32		100	85.2-114.8		
Boron	83.0	5.36	mg/kg wet	86.580		96	68.5-131.6		
Cadmium	229	0.670	mg/kg wet	224.09		102	84.9-115.1		
Calcium	3360	53.6	mg/kg wet	3305.9		102	82.8-117.2		
Chromium	80.7	2.68	mg/kg wet	77.590		104	76.8-123.2		
Cobalt	166	8.04	mg/kg wet	163.19		102	79.4-120.6		
Copper	275	5.36	mg/kg wet	265.65		103	82.4-117.6		
Iron	8790	53.6	mg/kg wet	8202.8		107	78.9-121.1		
Lead	181	2.68	mg/kg wet	187.62		96	81.5-118.5		
Magnesium	8630	13.4	mg/kg wet	8352.3		103	84.2-115.8		
Manganese	1030	2.68	mg/kg wet	951.35		108	69-131		
Molybdenum	240	2.68	mg/kg wet	234.78		102	80.1-119.9		
Nickel	223	6.70	mg/kg wet	220.85		101	81.4-118.6		
Potassium	14400	268	mg/kg wet	14177		101	85.7-114.3		
Selenium	191	0.804	mg/kg wet	187.99		102	78.8-121.2		
Silicon	1490	16.1	mg/kg wet	939.78		159	0-272.3		
Silver	82.5	2.68	mg/kg wet	83.960		98	81.9-118.1		
Sodium	9900	134	mg/kg wet	9587.1		103	83.5-116.4		
Vanadium	106	2.68	mg/kg wet	97.430		108	75.8-124.2		
Zinc	197	8.04	mg/kg wet	196.52		100	78.9-121.1		

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	07/02/2010 08:14

Metals by SW846 6000/7000 series - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers		Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L006296 - SW 7471A Prep										
Blank (L006296-BLK1)				Prepared: 06/30/2010 Analyzed: 07/01/2010						
Mercury	0.0290	U	0.0290	mg/kg wet						
Duplicate (L006296-DUP1)		**Source: 1006082-01**		Prepared: 06/30/2010 Analyzed: 07/01/2010						
Mercury	0.0239	U	0.0239	mg/kg dry		0.0283 U				20
Matrix Spike (L006296-MS1)		**Source: 1006082-01**		Prepared: 06/30/2010 Analyzed: 07/01/2010						
Mercury	0.163		0.0267	mg/kg dry	0.14815	0.0283 U	110	75-125		
Reference (L006296-SRM1)				Prepared: 06/30/2010 Analyzed: 07/01/2010						
Mercury	1.22		0.0281	mg/kg wet	1.2600		97.2	65.9-133.3		

Lionville Laboratory **Logbook #:** 783

SAMPLE DIGESTION RECORD

Digestion Batch #: L006735
Date/Time Initiated: 6/22/10 1155
Date/Time Completed: 6/22/10 1630
Analyst: JJS
Matrix (circle): Soil Water Other
Method (circle one): 3005A 3010A 3050 200.7 (1994)

Digested / Undigested (circle one)
Balance #: B14
Balance Cal Verification: ✓ NA
Temp: 96
BLOCK 1 2 (circle one)

NOTE: All temperatures are recorded as corrected temperatures

Work Order #	Spike Vol (mL)	Initial Wt/Vol (g/mL)	Final Vol (mL)	pH <2	Type: To/Sol/ TC	Texture	Color / Appearance	Artifact	Turb
1006082-01		0.66	50		TO	Fine	Brown	Rocks	N/A
L006735-Ag1		0.62	50			Fine	Brown	Rocks	
L006735-MS1	0.5	0.70	50			Fine	Brown	Rocks	
1006082-02		0.55	50			Fine	Brown/Black	Rocks	
1006082-03		0.62	50			Fine	Brown/Black	Rocks	
1006082-04		0.58	50			Fine	Brown/Black	Rocks	
1006082-05		0.70	50			Fine	Brown/Black	Rocks	
1006082-06		0.73	50			Coarse	Brown	Rocks	
1006082-07		0.70	50			Fine	Black/Brown	Rocks	
1006082-08		0.68	50			Fine	Black/Brown	Rocks	
1006082-09		0.62	50			Fine	Black/Brown	Rocks	
1006082-10		0.68	50			Fine	Brown	Rocks	
1006082-11		0.52	50			Fine	Brown	Rocks	
1006082-12		0.68	50			Fine	Brown/Grey	Rocks	
1006082-13		0.66	50			Fine	Brown	Rocks	
L006735-Blk1		0.70	50			Coarse	Boiling Chips		
L006735-SRM1		0.56	50			Fine	Dusty yellow sand		

JJS 6/22/10

Spiking IDs / Expiration Date:
MS#: 8100-04-07
-08
-09
6072-086-13
LCS#: 0907564

Reagent IDs:
HNO_3 10^10^13
HCl J11039
H_2O_2 H28A12
1:1 HNO_3 637-019-05
1:1 HCl

File ID#:

Data Review By / Date: Qjm 6/23/10

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Signed\SPI\Metals Digestion log.doc

Page #:

Lionville Laboratory

MERCURY PREPARATION

Logbook # 765

Analyst: [illegible]
Date 6/30/10
Start Time/Temp: 1740/94°
End Time/Temp: 1810/95°

Instrument ID HG3.1
Balance #: B29 /NA
Pipette Calibration (Daily) ✓

Prep Batch: L006296
Worksheet: HG070101
SOP No. ME-HgCVAA
BLOCK (1) 2 (circle one)

pH < 2 for Liquids? __ Yes __ No (If no: designate affected samples in Comments column, and initiate an SDR)

NOTE: The Inital/Final Volume for water samples = 33mL, unless otherwise noted.
The Final volume for soil samples = 50mL, unless otherwise noted.
All temperatures are recorded as corrected temperatures.

LvL Batch #	Spike Volume (mL)	Spike Conc. (µg/L)	Initial Wt. or Volume (g or mL)	Final Sample Volume (mL)	Comments, % Solids, etc.
blank			10ml	50	
0.2 ug/l	0.100		10ml	50	
1.0 ug/l	0.500		10ml	50	
2.0 ug/l	1.000		10ml	50	
5.0 ug/l	2.500		10ml	50	
10.0 ug/l	5.000		10ml	50	
IEV	0.125	2.5	10ml	50	
CV	0.250	5.0	10ml	50	
ICB/CCB			10ml	50	
L006296-BLK1			0.31	50	
SRM1	✓	✓	0.32	50	
1006082-01			0.33	50	
L006296-DUP1			0.34	50	
MS1	0.500	1.0	0.35	50	
1006082-02			0.38	50	
03			0.33	50	
04			0.36	50	
05			0.33	50	
06			0.33	50	
07			0.35	50	
08			0.37	50	
09			0.34	50	
10			0.38	50	
11			0.37	50	
12			0.33	50	
13			0.36	50	
	MW	6/30/10			

Standard:	ID	Prep Date/Time
ICAL/MS	R-I 0901985B	6/30/10 1400
ICV/CCV/LCS	I.V. 0902297A	↓

Reviewed By/Date: [illegible] 7/2/10

se book # 9368 for std traceability information

Soil LCS True Value = 1.26 mg/Kg
Standard # 0902564 ✓

Water Matrix Spiking Solution Concentration = 0.1 µg/ml
ater LCS Spiking Concentration: 1.0 µg/ml

00000823

Lionville Laboratory

Logbook # 763

% SOLID / % MOISTURE ANALYSIS RECORD

Analyst: (SD)
Start Date/Time/Temp: 6/17/10 1510 104
End Date/ Time/Temp: 6/18/10 0945 105
Balance ID: B5

Method: WC-160.6
Worksheet: X506061
Prep Batch: 10C%5042
Promium Batch: L006214

NOTE: All temperatures are recorded as corrected temperatures.

Sample ID	Container wt (g)	Initial wt (g) (Sample & Container)	Final wt (g) (Sample & Container)	% Solid	% Moisture
1006082-01	1.311	5.535	5.384	96.43	
-01R	1.330	5.874	5.733	~~*98.99~~ 96.90	
-02	1.328	5.198	5.159	98.99	
-03	1.338	5.098	5.056	98.88	
-04	1.336	5.858	5.809	98.92	
-05	1.324	5.066	5.008	98.45	
-06	1.334	5.213	5.042	95.59	
-07	1.313	5.957	5.814	96.92	
-08	1.335	5.603	5.557	98.92	
-09	1.334	5.340	5.319	99.48	
-10	1.350	5.389	5.319	* ~~93.81~~ 98.27	
-11	1.326	5.523	5.368	96.31	
-12	1.339	5.308	5.290	99.55	
-13	1.310	5.217	5.176	98.95	

(SD) 6-17-10

"R" = replicate, "wt" = weight

*~~SD~~ 6/21/10

Example Calculations: % solids = $\frac{\text{Pan and dry sample wt. (g) – pan wt. (g)}}{\text{Pan and wet sample wt. (g) – pan wt. (g)}}$ X 100

% moisture = 100% - % solids result

Reviewed By/Date: M. Doughty 6/21/10

Page #

00000824

Lionville Laboratory Use Only

1006 082

Custody Transfer Record/Lab Work Request

Page 1 of 2

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

LVLI Lionville Laboratory Inc.

Client WCHANFORD SAF#RC-107

Est. Final Proj. Sampling Date

Project#

Project Contact/Phone#

Lionville Laboratory Project Manager O. JOHNSON

QC SN Del SAL TAT 21Days

Date Rec'd 6/17/10 Date Due 7-8-10

		A	B	C		D	E		F				G			
Refrigerator #		VOA	2	2		2	2		2				2			
#/Type Container	~~Liquid~~ Solid	1AG	1AG	1AG		1AG	1AG		1				1			
Volume		60	120	60		120	120		125				125			
Preservatives		—	—	—		—	—		—				—			
ANALYSES REQUESTED		ORGANIC							INORG							
		VOA	BNA	~~Pest~~ PCB	Herb	PAHs	Pest		Metal	Cr	Anions	Cr6	Note #3			

MATRIX CODES:
S- Soil
SE- Sediment
SO- Solid
SL- Sludge
W- Water
O- Oil
A- Air
DS- Drum Solids
DL- Drum Liquids
L- EP/TCLP Leachate
WI- Wipe
X- Other
F- Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	VOA, TCL	BNA, TCL	PCB		8310	Pest		metals		Cr6+	NO3N2			
01	JIB 595			Soil	6/15/10	1105	X	X	X		X	X		X		X	X	X		
02	96					1125	X	X	X		X	X		X		X	X	X		
03	97					1145	X	X	X		X	X		X		X	X	X		
04	98					1140	X	X	X		X	X		X		X	X	X		
05	99					1245	X	X	X		X	X		X		X	X	X		
06	B0					1305	X	X	X		X	X		X		X	X	X		
07	B1					1325	X	X	X		X	X		X		X	X	X		
08	B2					1320	X	X	X		X	X		X		X	X	X		
09	B3					1330	X	X	X		X	X		X		X	X	X		
10	B4					1340	X	X	X		X	X		X		X	X	X		

Special Instructions: MATRIX QC
Non Rad
JB.

METHE = HS2 + B, Mo, Si (NO TL)

Special Instructions:
1.
2.
3.
4.
5.
6.

Relinquished by	Received by	Date	Time
FedEx	[signature]	6/17/10	1020

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time

Lionville Laboratory Use Only

1006082

Custody Transfer Record/Lab Work Request

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

LVLI LIONVILLE LABORATORY INC.

Client: WC Hanford SAF# RC-107

Est. Final Proj. Sampling Date:

Project#:

Project Contact/Phone#:

Lionville Laboratory Project Manager: O. JOHNSON

QC: SW Del: SH TAT: 21 Days

Date Rec'd: 6-17-10 Date Due: 7-8-10

Refrigerator #		10A	2	2		2	2		2			1	2			
#/Type Container	~~Liquid~~ Solid	1AG	1AG	1AG		1AG	1AG		1			1	1			
Volume		60	120	60		120	120		125			1	125			
Preservatives												1				
ANALYSES REQUESTED →		ORGANIC							INORG							
		VOA	BNA	~~Pest~~/PCB	~~Herb~~	PAHs	PST		Metal ~~Hg~~ ~~CN~~		IC Anions	CR-TL	NO2 NO3			

MATRIX CODES:
S- Soil
SE- Sediment
SO- Solid
SL- Sludge
W- Water
O- Oil
A- Air
DS- Drum Solids
DL- Drum Liquids
L- EP/TCLP Leachate
WI- Wipe
X- Other
F- Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	VOA	BNA	PCB	Herb	PAHs	PST		Metal	Hg	IC Anions	CR-TL	NO2 NO3			
							Lionville Laboratory Use Only														
11	JIB5B5			SOIL	6-15-10	1355	X	X	X		X	X		X		X	X	X			
12	B6					1400	X	X	X		X	X		X		X	X	X			
13	B7					1145	X	X	X		X	X		X		X	X	X			
14	D3					0845	X	VH	6/17/10												

Special Instructions:

Special Instructions:

1.
2.
3.
4.
5.
6.

Relinquished by	Received by	Date	Time
Fed Ex	[illegible]	6/17/10	1020

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-035	Page 1 of 3

Collector: J. Sellers	Company Contact: Don Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Drain Field Excavation Area		SAF No.: RC-107
Ice Chest No.: WCH-08-034	Field Logbook No.: EL 1627-4	COA: 0607H32000	Method of Shipment: Fed Ex
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: A 100 220		Bill of Lading/Air Bill No.: See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C		
Type of Container	G/P	G/P	G/P	G/P	aG	aG	aG	aG	aG		
No. of Container(s)	1	0	0	1	1	1	1	1	1		
Volume	125mL	60mL	60mL	125mL	60mL	120mL	60mL	120mL	120mL		
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	NO2/NO3 - 353.2	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081		
Sample No. / Matrix * / Sample Date / Sample Time											
J1B595 / SOIL / 6-15-10 / 1105	X	X	X	X	X	X	X	X	X		
J1B596 / SOIL / 6-15-10 / 1125	X	X	X	X	X	X	X	X	X		
J1B597 / SOIL / 6-15-10 / 1145	X	X	X	X	X	X	X	X	X		
J1B598 / SOIL / 6-15-10 / 1140	X	X	X	X	X	X	X	X	X		
J1B599 / SOIL / 6-15-10 / 1245	X	X	X	X	X	X	X	X	X		

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J. Sellers Josh Sellers	6-15-10 1440	Sterling Howell	6-15-10 1440
Sterling Howell	6-15-10 1645	Daniel Hewan	6-15-10 / 1645
Daniel Hewan WCH	6-16-10 / 1000	FED EX	
FED EX	6-17-10 1020	VICTOR HERNANDEZ	6-17-10 1020

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)
(2) IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}

REVIEWED BY JEB
DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wi=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-035	Page 2 of 3

Collector J. Sellers	Company Contact Don Woolery	Telephone No. 509-431-0448	Project Coordinator KESSNER, JH	Price Code 8L	Data Turnaround 21 Days
Project Designation 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location 1607-H-3 Drain Field Excavation Area		SAF No. RC-107		
Ice Chest No. WCH-08-034	Field Logbook No. EL 1627-4	COA 0607H32000	Method of Shipment Fed Ex		
Shipped To EBERLINE SERVICES / LIONVILLE	Offsite Property No. A 100220		Bill of Lading/Air Bill No. See OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C		
Type of Container	G/P	G/P	G/P	G/P	aG	aG	aG	aG	aG		
No. of Container(s)	1	0	0	1	1	1	1	1	1		
Volume	125mL	60mL	60mL	125mL	60mL	120mL	60mL	120mL	120mL		
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	NO2/NO3 - 353.2	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081		
Sample No. / Matrix * / Sample Date / Sample Time											
J1B5B0 / SOIL / 6-15-10 / 1305	X	X	X	X	X	X	X	X	X		
J1B5B1 / SOIL / 6-15-10 / 1325	X	X	X	X	X	X	X	X	X		
J1B5B2 / SOIL / 6-15-10 / 1320	X	X	X	X	X	X	X	X	X		
J1B5B3 / SOIL / 6-15-10 / 1330	X	X	X	X	X	X	X	X	X		
J1B5B4 / SOIL / 6-15-10 / 1340	X	X	X	X	X	X	X	X	X		

CHAIN OF POSSESSION	Sign/Print Names	
Relinquished By/Removed From: J. Sellers / Josh Sellers — Date/Time: 6-15-10 1440	Received By/Stored In: Starling Howell — Date/Time: 6-15-10 1440	
Relinquished By/Removed From: Starling Howell — Date/Time: 6-15-10 1645	Received By/Stored In: Daniel Hansen — Date/Time: 6-15-10/1645	
Relinquished By/Removed From: Daniel Hansen — Date/Time: 6-16-10/1000 (WCH)	Received By/Stored In: FED EX — Date/Time:	
Relinquished By/Removed From: 6-17-10 1020	Received By/Stored In: VICTOR RAMIREZ — Date/Time: 6-17-10 1020	
Relinquished By/Removed From — Date/Time	Received By/Stored In — Date/Time	
Relinquished By/Removed From — Date/Time	Received By/Stored In — Date/Time	

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc); Mercury - 7471 - (CV)
(2) IC Anions - 300.0 (Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate)

REVIEWED BY JEB DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-035	Page 3 of 3

Collector J. Sellers	Company Contact Don Woolery	Telephone No. 509-431-0448	Project Coordinator KESSNER, JH	Price Code 8L	Data Turnaround 21 Days
Project Designation 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location 1607-H-3 Drain Field Excavation Area		SAF No. RC-107		
Ice Chest No. WCH-08-034	Field Logbook No. EL 1627-4	COA 0607H32000	Method of Shipment Fed Ex		
Shipped To EBERLINE SERVICES / LIONVILLE	Offsite Property No. A100220		Bill of Lading/Air Bill No. See OSPC		

POSSIBLE SAMPLE ~~HAZARDS/REMARKS~~

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C		
Type of Container	G/P	G/P	G/P	G/P	aG	aG	aG	aG	aG		
No. of Container(s)	1	0	0	1	1	1	1	1	1		
Volume	125mL	60mL	60mL	125mL	60mL	120mL	60mL	120mL	120mL		
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	NO2/NO3 - 353.2	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081		
Sample No. / Matrix * / Sample Date / Sample Time											
J1B5B5 / SOIL / 6-15-10 / 1355	X	X	X	X	X	X	X	X	X		
J1B5B6 / SOIL / 6-15-10 / 1400	X	X	X	X	X	X	X	X	X		
J1B5B7 / SOIL / 6-15-10 / 1145	X	X	X	X	X	X	X	X	X		

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J. Sellers Josh Sellers	6-15-10 1440	Sterling Howell	6-15-10 1440
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Sterling Howell	6-15-10 1645	Daniel Herrera	6-15-10 / 1645
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Daniel Herrera WCH	6-16-10 / 1000	FED EX	
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
FED EX	6-17-10 1020	VICTOR HERNANDEZ	6/17/10 1020
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)
(2) IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}

REVIEWED BY JEB DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wl=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-037	Page 1 of 1

Collector: J. Sellers	Company Contact: Don Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Trip Blanks		SAF No.: RC-107
Ice Chest No.: WCH-08-034	Field Logbook No.: EL 1627-4	COA: 0607H32000	Method of Shipment: Fed Ex
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: A100220		Bill of Lading/Air Bill No.: See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	Cool 4C										
Type of Container	aG										
No. of Container(s)	1										
Volume	60mL										
SAMPLE ANALYSIS	VOA - 8260A (TCL)										

Sample No.	Matrix *	Sample Date	Sample Time									
~~J1B5D2~~	~~SOIL~~	6/15/10										
J1B5D3	SOIL	6-15-10	0845 ~~0845~~ ~~6-15-10~~	X								

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From: J. Sellers	Date/Time: 6-15-10 1440	Received By/Stored In: Sterling Howell	Date/Time: 6-15-10 1440
Relinquished By/Removed From: Sterling Howell	Date/Time: 6-15-10 1645	Received By/Stored In: Daniel Herrera	Date/Time: 6-15-10 / 1645
Relinquished By/Removed From: Daniel Herrera (WCH)	Date/Time: 6-16-10 / 1000	Received By/Stored In: FED EX	Date/Time:
Relinquished By/Removed From:	Date/Time: 6-17-10 1010	Received By/Stored In: VICTOR HERNANDEZ	Date/Time: 6-17-10 1020
Relinquished By/Removed From:	Date/Time:	Received By/Stored In:	Date/Time:
Relinquished By/Removed From:	Date/Time:	Received By/Stored In:	Date/Time:

SPECIAL INSTRUCTIONS

REVIEWED BY JEB DATE 6-16-10

Matrix *

S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Lionville Laboratory

SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: WCH Hanford

Project/SAF/SOW/Release #: RC-107

Date: 6/17/10

LvL Batch #: 1006082

Sample Custodian: [illegible]

NOTE. EXPLAIN ALL DISCREPANCIES

1. Samples Hand Delivered or Shipped?	Carrier FED EX		Airbill # 7936 4256 7389 7437 7470
2. Custody Seals on coolers or shipping containers intact, signed & dated?	☑ Yes	☐ No	☐ No Seals
3. Outside of coolers or shipping containers are free from damage?	☑ Yes	☐ No	Comments: Cooler outside Cracked inside
4. All expected paperwork received (coc & other client specific information) sealed in plactic bag and easily accessible?	☑ Yes	☐ No	
5. Samples received cooled or ambient?	Temp 2.1 2.2 3.2	°C	Cooler # WCH-08-034 025 BHI-94
How was the temperature taken?	☑ IR	☐ Temp. Blank	☐ Other (Specify)
Is the Temp. Criteria met for these samples? (Hg in soils @ 4°C)	☑ Yes	☐ No	
6. Custody seals on sample containers intact, signed and dated?	☑ Yes	☐ No	☐ No Seals
7. COC (Client & LvL) signed & dated?	☑ Yes	☐ No	
8. Sample containers are intact?	☑ Yes	☐ No	
9. All samples on COC received?	☑ Yes	☐ No	
All samples received on COC?	☑ Yes	☐ No	
10. All sample label information matches COC?	☑ Yes	☐ No	
11. Samples properly preserved? (If #5 is no. then this is no.)	☑ Yes	☐ No	
12. Samples received within hold times?	☑ Yes	☐ No	
Short holds taken to wet lab?	☐ Yes	☐ No	☑ N/A
13. VOA, TOC, TOX free of headspace?	☑ Yes	☐ No	☐ N/A
14. QC stickers placed on bottles designated by client?	☐ Yes	☐ No	☑ N/A
15. Shipment meets LvL Sample Acceptance Policy? (Identify all bottles that do not meet the policy, which is on the reverse of this page.)	☑ Yes	☐ No	
16. Project Manager contacted concerning any discrepancies?	☐ Yes	☐ No	☑ N/A

Person Contacted _____ Date _____

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/30/2010 17:19

Analytical Report for Wet Chemistry

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
J1B595	1006082-01	Soil	06/15/2010 11:05	06/17/2010 10:20
J1B596	1006082-02	Soil	06/15/2010 11:25	06/17/2010 10:20
J1B597	1006082-03	Soil	06/15/2010 11:45	06/17/2010 10:20
J1B598	1006082-04	Soil	06/15/2010 11:40	06/17/2010 10:20
J1B599	1006082-05	Soil	06/15/2010 12:45	06/17/2010 10:20
J1B5B0	1006082-06	Soil	06/15/2010 13:05	06/17/2010 10:20
J1B5B1	1006082-07	Soil	06/15/2010 13:25	06/17/2010 10:20
J1B5B2	1006082-08	Soil	06/15/2010 13:20	06/17/2010 10:20
J1B5B3	1006082-09	Soil	06/15/2010 13:30	06/17/2010 10:20
J1B5B4	1006082-10	Soil	06/15/2010 13:40	06/17/2010 10:20
J1B5B5	1006082-11	Soil	06/15/2010 13:55	06/17/2010 10:20
J1B5B6	1006082-12	Soil	06/15/2010 14:00	06/17/2010 10:20
J1B5B7	1006082-13	Soil	06/15/2010 11:45	06/17/2010 10:20
J1B5D3	1006082-14	Soil	06/15/2010 08:45	06/17/2010 10:20

LIONVILLE LABORATORY
A division of Eberline Analytical Corporation

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Case Narrative

Client: WC-HANFORD RC-107 K2099
LVL#: 1006082 **Date Received:** 06-17-10

INORGANIC NARRATIVE

1. This narrative covers the analyses of 14 soil samples.

2. The samples were prepared and analyzed in accordance with the methods indicated on the data summary report.

   Lionville Lab (LvL) is NELAP accredited by the State of Pennsylvania. For a complete list of accrediting authorities and the corresponding analytes/methods, please contact your Project Manager. LvL certifies that all test results meet the requirements of NELAC with any exception noted in the following statements.

3. Sample holding times as required by the method and/or contract were met with the exception of Nitrate, Nitrite and Orthophosphate.

4. The results presented in this report are derived from samples that met LvL's sample acceptance policy.

5. The method blanks were within the method criteria.

6. The Laboratory Control Samples (LCS) for were within the laboratory control limits.

7. The matrix spike recoveries were within the 75-125% control limits.

8. The replicate analyses were within the 20% Relative Percent Difference (RPD) control limit with the exception of Nitrate at 28.6%.

9. Results for soil samples are reported on a dry weight basis.

10. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard copy package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

Iain Daniels
Laboratory Manager
Lionville Laboratory

7/19/10
Date

njp\i06-082

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 21 pages.

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WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-107 Project Number: K2099 Project Manager: Joan Kessner	**Reported:** 06/30/2010 17:19

Notes and Definitions

U	Analyte included in the analysis, but not detected
D	Results reported from a dilution; related reporting limits are elevated due to the presence of an interference or a high target value
B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
B	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
*	Value outside QC acceptance criteria
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
Dry	Sample results reported on a dry weight basis
Wet	Sample results reported on a wet weight basis
RPD	Relative Percent Difference

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Richland WA, 99354	Project Manager: Joan Kessner	06/30/2010 17:19

Wet Chemistry
Lionville Laboratory

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
J1B595 (1006082-01) Soil								
%Solids	96.4	0.1	% by Weight	1	L006214	06/17/2010	06/17/2010	EPA 160.6
Bromide	2.6 U	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Chloride	2.6 U	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Fluoride	0.8 B	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate	2.0 B	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrite	2.6 U	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Orthophosphate	3.6	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Sulfate	3.8	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate/Nitrite as N	0.21 U	0.21	mg/kg dry	1	L006233	06/22/2010	06/22/2010	EPA 353.2
Hexavalent Chromium	0.08 B	0.21	mg/kg dry	1	L006271	06/17/2010	06/17/2010	SW846 7196A
J1B596 (1006082-02) Soil								
%Solids	99.0	0.1	% by Weight	1	L006214	06/17/2010	06/17/2010	EPA 160.6
Bromide	2.6 U	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Chloride	2.6 U	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Fluoride	0.6 B	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate	2.6 U	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrite	2.6 U	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Orthophosphate	2.2 B	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Sulfate	2.1 B	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate/Nitrite as N	0.24	0.20	mg/kg dry	1	L006233	06/22/2010	06/22/2010	EPA 353.2
Hexavalent Chromium	0.11 B	0.20	mg/kg dry	1	L006271	06/17/2010	06/17/2010	SW846 7196A
J1B597 (1006082-03) Soil								
%Solids	98.9	0.1	% by Weight	1	L006214	06/17/2010	06/17/2010	EPA 160.6
Bromide	2.5 U	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Chloride	2.5 U	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)

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Wet Chemistry
Lionville Laboratory

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
J1B597 (1006082-03) Soil								
Fluoride	0.7 B	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate	2.5 U	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrite	2.5 U	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Orthophosphate	4.2	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Sulfate	1.2 B	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate/Nitrite as N	0.38	0.20	mg/kg dry	1	L006233	06/22/2010	06/22/2010	EPA 353.2
Hexavalent Chromium	0.15 B	0.20	mg/kg dry	1	L006271	06/17/2010	06/17/2010	SW846 7196A
J1B598 (1006082-04) Soil								
%Solids	98.9	0.1	% by Weight	1	L006214	06/17/2010	06/17/2010	EPA 160.6
Bromide	2.6 U	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Chloride	2.6 U	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Fluoride	2.6 U	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate	2.6 U	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrite	2.6 U	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Orthophosphate	1.1 B	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Sulfate	2.2 B	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate/Nitrite as N	0.21	0.21	mg/kg dry	1	L006233	06/22/2010	06/22/2010	EPA 353.2
Hexavalent Chromium	0.20 U	0.20	mg/kg dry	1	L006271	06/17/2010	06/17/2010	SW846 7196A
J1B599 (1006082-05) Soil								
%Solids	98.5	0.1	% by Weight	1	L006214	06/17/2010	06/17/2010	EPA 160.6
Bromide	2.5 U	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Chloride	2.5 U	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Fluoride	0.7 B	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate	2.5 U	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrite	2.5 U	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Orthophosphate	1.8 B	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)

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Wet Chemistry
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Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
J1B599 (1006082-05) Soil								
Sulfate	2.2 B	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate/Nitrite as N	0.33	0.20	mg/kg dry	1	L006233	06/22/2010	06/22/2010	EPA 353.2
Hexavalent Chromium	0.07 B	0.20	mg/kg dry	1	L006271	06/17/2010	06/17/2010	SW846 7196A
J1B5B0 (1006082-06) Soil								
%Solids	95.6	0.1	% by Weight	1	L006214	06/17/2010	06/17/2010	EPA 160.6
Bromide	2.6 U	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Chloride	2.6 U	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Fluoride	1.2 B	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate	2.9	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrite	2.6 U	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Orthophosphate	8.6	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Sulfate	3.2	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate/Nitrite as N	0.82	0.21	mg/kg dry	1	L006233	06/22/2010	06/22/2010	EPA 353.2
Hexavalent Chromium	0.11 B	0.21	mg/kg dry	1	L006271	06/17/2010	06/17/2010	SW846 7196A
J1B5B1 (1006082-07) Soil								
%Solids	96.9	0.1	% by Weight	1	L006214	06/17/2010	06/17/2010	EPA 160.6
Bromide	2.4 U	2.4	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Chloride	2.4 U	2.4	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Fluoride	0.6 B	2.4	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate	2.4 U	2.4	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrite	2.4 U	2.4	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Orthophosphate	2.2 B	2.4	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Sulfate	2.1 B	2.4	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate/Nitrite as N	0.27	0.19	mg/kg dry	1	L006233	06/22/2010	06/22/2010	EPA 353.2
Hexavalent Chromium	0.17 B	0.21	mg/kg dry	1	L006271	06/17/2010	06/17/2010	SW846 7196A

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Wet Chemistry
Lionville Laboratory

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
J1B5B2 (1006082-08) Soil								
%Solids	98.9	0.1	% by Weight	1	L006214	06/17/2010	06/17/2010	EPA 160.6
Bromide	2.5 U	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Chloride	2.5 U	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Fluoride	1.0 B	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate	2.5 U	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrite	2.5 U	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Orthophosphate	1.6 B	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Sulfate	2.5	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate/Nitrite as N	0.26	0.20	mg/kg dry	1	L006233	06/22/2010	06/22/2010	EPA 353.2
Hexavalent Chromium	0.13 B	0.20	mg/kg dry	1	L006271	06/17/2010	06/17/2010	SW846 7196A
J1B5B3 (1006082-09) Soil								
%Solids	99.5	0.1	% by Weight	1	L006214	06/17/2010	06/17/2010	EPA 160.6
Bromide	2.3 U	2.3	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Chloride	2.3 U	2.3	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Fluoride	0.6 B	2.3	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate	2.3 U	2.3	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrite	2.3 U	2.3	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Orthophosphate	3.3	2.3	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Sulfate	2.1 B	2.3	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate/Nitrite as N	0.14 B	0.18	mg/kg dry	1	L006233	06/22/2010	06/22/2010	EPA 353.2
Hexavalent Chromium	0.13 B	0.20	mg/kg dry	1	L006271	06/17/2010	06/17/2010	SW846 7196A
J1B5B4 (1006082-10) Soil								
%Solids	98.3	0.1	% by Weight	1	L006214	06/17/2010	06/17/2010	EPA 160.6
Bromide	2.4 U	2.4	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Chloride	2.4 U	2.4	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Fluoride	1.0 B	2.4	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)

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Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
J1B5B4 (1006082-10) Soil								
Nitrate	1.6 B	2.4	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrite	2.4 U	2.4	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Orthophosphate	3.1	2.4	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Sulfate	2.1 B	2.4	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate/Nitrite as N	0.52	0.19	mg/kg dry	1	L006233	06/22/2010	06/22/2010	EPA 353.2
Hexavalent Chromium	0.07 B	0.20	mg/kg dry	1	L006271	06/17/2010	06/17/2010	SW846 7196A
J1B5B5 (1006082-11) Soil								
%Solids	96.3	0.1	% by Weight	1	L006214	06/17/2010	06/17/2010	EPA 160.6
Bromide	2.6 U	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Chloride	2.6 U	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Fluoride	1.3 B	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate	4.1	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrite	2.6 U	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Orthophosphate	3.8	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Sulfate	3.0	2.6	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate/Nitrite as N	1.11	0.21	mg/kg dry	1	L006233	06/22/2010	06/22/2010	EPA 353.2
Hexavalent Chromium	0.12 B	0.21	mg/kg dry	1	L006271	06/17/2010	06/17/2010	SW846 7196A
J1B5B6 (1006082-12) Soil								
%Solids	99.5	0.1	% by Weight	1	L006214	06/17/2010	06/17/2010	EPA 160.6
Bromide	2.4 U	2.4	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Chloride	2.4 U	2.4	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Fluoride	0.5 B	2.4	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate	2.4 U	2.4	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrite	2.4 U	2.4	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Orthophosphate	1.4 B	2.4	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Sulfate	2.0 B	2.4	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/30/2010 17:19

Wet Chemistry
Lionville Laboratory

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
J1B5B6 (1006082-12) Soil								
Nitrate/Nitrite as N	0.21	0.19	mg/kg dry	1	L006233	06/22/2010	06/22/2010	EPA 353.2
Hexavalent Chromium	0.20 U	0.20	mg/kg dry	1	L006271	06/17/2010	06/17/2010	SW846 7196A
J1B5B7 (1006082-13) Soil								
%Solids	99.0	0.1	% by Weight	1	L006214	06/17/2010	06/17/2010	EPA 160.6
Bromide	2.5 U	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Chloride	2.5 U	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Fluoride	1.1 B	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate	0.9 B	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrite	2.5 U	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Orthophosphate	6.7	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Sulfate	1.7 B	2.5	mg/kg dry	1	L006286	06/22/2010	06/23/2010	EPA 300.0 (1993)
Nitrate/Nitrite as N	0.37	0.20	mg/kg dry	1	L006233	06/22/2010	06/22/2010	EPA 353.2
Hexavalent Chromium	0.11 B	0.20	mg/kg dry	1	L006271	06/17/2010	06/17/2010	SW846 7196A
J1B5D3 (1006082-14) Soil								
%Solids	100	0.1	% by Weight	1	L006232	06/21/2010	06/21/2010	EPA 160.6

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/30/2010 17:19

Wet Chemistry - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L006214 - NO PREP									
Duplicate (L006214-DUP1)		**Source: 1006082-01**	Prepared & Analyzed: 06/17/2010						
%Solids	96.9	0.1	% by Weight		96.4			0.5	20
Batch L006233 - Default Prep GenChem									
Blank (L006233-BLK1)			Prepared & Analyzed: 06/22/2010						
Nitrate/Nitrite as N	0.21 U	0.21	mg/kg wet						
Blank (L006233-BLK2)			Prepared & Analyzed: 06/22/2010						
Nitrate/Nitrite as N	0.21 U	0.21	mg/kg wet						
LCS (L006233-BS1)			Prepared & Analyzed: 06/22/2010						
Nitrate/Nitrite as N	4.67	0.20	mg/kg wet	5.0454		92.6	90-110		
LCS (L006233-BS2)			Prepared & Analyzed: 06/22/2010						
Nitrate/Nitrite as N	4.60	0.20	mg/kg wet	5.0454		91.2	90-110		
LCS Dup (L006233-BSD1)			Prepared & Analyzed: 06/22/2010						
Nitrate/Nitrite as N	4.74	0.20	mg/kg wet	5.0727		93.4	90-110	1.40	20
LCS Dup (L006233-BSD2)			Prepared & Analyzed: 06/22/2010						
Nitrate/Nitrite as N	4.70	0.20	mg/kg wet	5.0727		92.6	90-110	2.06	20
Duplicate (L006233-DUP1)		**Source: 1006082-01**	Prepared & Analyzed: 06/22/2010						
Nitrate/Nitrite as N	0.21 U	0.21	mg/kg dry		0.21 U				20
Matrix Spike (L006233-MS1)		**Source: 1006082-01**	Prepared & Analyzed: 06/22/2010						
Nitrate/Nitrite as N	5.51	0.21	mg/kg dry	5.1992	0.21 U	106	75-125		

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Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/30/2010 17:19

Wet Chemistry - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers		Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L006271 - Default Prep GenChem										
Blank (L006271-BLK1)				Prepared & Analyzed: 06/17/2010						
Hexavalent Chromium	0.20	U	0.20	mg/kg wet						
LCS (L006271-BS1)				Prepared & Analyzed: 06/17/2010						
Hexavalent Chromium	4.21		0.20	mg/kg wet	4.0000		105	80-120		
LCS (L006271-BS2)				Prepared & Analyzed: 06/17/2010						
Hexavalent Chromium	1120	D	20.0	mg/kg wet	1133.4		99	80-120		
Duplicate (L006271-DUP1)		**Source: 1006082-01**		Prepared & Analyzed: 06/17/2010						
Hexavalent Chromium	0.09	B	0.21	mg/kg dry		0.08			12	20
Matrix Spike (L006271-MS1)		**Source: 1006082-01**		Prepared & Analyzed: 06/17/2010						
Hexavalent Chromium	4.31		0.21	mg/kg dry	4.1483	0.08	102	75-125		
Matrix Spike (L006271-MS2)		**Source: 1006082-01**		Prepared & Analyzed: 06/17/2010						
Hexavalent Chromium	1320	D	20.7	mg/kg dry	1302.4	0.08	102	75-125		
Batch L006286 - Default Prep GenChem										
Blank (L006286-BLK1)				Prepared: 06/22/2010 Analyzed: 06/23/2010						
Fluoride	2.2	U	2.2	mg/kg wet						
Chloride	2.2	U	2.2	mg/kg wet						
Bromide	2.2	U	2.2	mg/kg wet						
Orthophosphate	2.2	U	2.2	mg/kg wet						
Sulfate	2.2	U	2.2	mg/kg wet						
Nitrate	2.2	U	2.2	mg/kg wet						
Nitrite	2.2	U	2.2	mg/kg wet						

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Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-107 Project Number: K2099 Project Manager: Joan Kessner	**Reported:** 06/30/2010 17:19

Wet Chemistry - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L006286 - Default Prep GenChem									
Blank (L006286-BLK2)			Prepared: 06/22/2010 Analyzed: 06/23/2010						
Fluoride	2.5 U	2.5	mg/kg wet						
Chloride	2.5 U	2.5	mg/kg wet						
Bromide	2.5 U	2.5	mg/kg wet						
Orthophosphate	2.5 U	2.5	mg/kg wet						
Sulfate	2.5 U	2.5	mg/kg wet						
Nitrate	2.5 U	2.5	mg/kg wet						
Nitrite	2.5 U	2.5	mg/kg wet						
LCS (L006286-BS1)			Prepared: 06/22/2010 Analyzed: 06/23/2010						
Fluoride	55.8	2.2	mg/kg wet	59.560		93.6	90-110		
Chloride	56.1	2.2	mg/kg wet	59.560		94.2	90-110		
Bromide	56.8	2.2	mg/kg wet	59.560		95.4	90-110		
Orthophosphate	58.6	2.2	mg/kg wet	59.560		98.5	90-110		
Sulfate	57.5	2.2	mg/kg wet	59.560		96.6	90-110		
Nitrate	56.4	2.2	mg/kg wet	59.560		94.6	90-110		
Nitrite	56.3	2.2	mg/kg wet	59.560		94.5	90-110		
LCS (L006286-BS2)			Prepared: 06/22/2010 Analyzed: 06/23/2010						
Fluoride	59.1	2.4	mg/kg wet	64.062		92.2	90-110		
Chloride	60.1	2.4	mg/kg wet	64.062		93.8	90-110		
Bromide	59.2	2.4	mg/kg wet	64.062		92.4	90-110		
Orthophosphate	60.0	2.4	mg/kg wet	64.062		93.7	90-110		
Sulfate	60.7	2.4	mg/kg wet	64.062		94.7	90-110		
Nitrate	59.6	2.4	mg/kg wet	64.062		93.0	90-110		
Nitrite	59.3	2.4	mg/kg wet	64.062		92.6	90-110		
Duplicate (L006286-DUP1)		**Source: 1006082-01**	Prepared: 06/22/2010 Analyzed: 06/23/2010						
Fluoride	1.0 B	2.6	mg/kg dry		0.8			15.5	20
Chloride	2.6 U	2.6	mg/kg dry		2.6 U				20
Bromide	2.6 U	2.6	mg/kg dry		2.6 U				20
Orthophosphate	3.0	2.6	mg/kg dry		3.6			16.7	20
Sulfate	3.6	2.6	mg/kg dry		3.8			4.01	20
Nitrate	1.5 B	2.6	mg/kg dry		2.0			28.6*	20
Nitrite	2.6 U	2.6	mg/kg dry		2.6 U				20

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	06/30/2010 17:19

Wet Chemistry - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L006286 - Default Prep GenChem									
Matrix Spike (L006286-MS1)		**Source: 1006082-01**	Prepared: 06/22/2010 Analyzed: 06/23/2010						
Fluoride	49.9	2.6	mg/kg dry	52.395	0.8	93.6	75-125		
Chloride	49.9	2.6	mg/kg dry	52.395	2.6 U	95.2	75-125		
Bromide	50.2	2.6	mg/kg dry	52.395	2.6 U	95.9	75-125		
Orthophosphate	58.2	2.6	mg/kg dry	52.395	3.6	104	75-125		
Sulfate	54.5	2.6	mg/kg dry	52.395	3.8	96.9	75-125		
Nitrate	52.1	2.6	mg/kg dry	52.395	2.0	95.8	75-125		
Nitrite	49.7	2.6	mg/kg dry	52.395	2.6 U	94.9	75-125		

Lionville Laboratory Use Only

1006 082

Custody Transfer Record/Lab Work Request

Page 1 of 2

LVLI Lionville Laboratory Inc.

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Client: WCHANFORD SAF#RC-107

Est. Final Proj. Sampling Date:

Project#:

Project Contact/Phone#:

Lionville Laboratory Project Manager: O. JOHNSON

QC: SW Del: SW TAT: 21 Days

Date Rec'd: 6/17/10 Date Due: 7-8-10

	A	B	C		D	E		F				G			
Refrigerator #	VOA	2	2		2	2		2				2			
#/Type Container (~~Liquid~~ / Solid)	1AG	1AG	1AG		1AG	1AG		1				1			
Volume	60	120	60		120	120		125				125			
Preservatives	—	—	—		—	—		—				—			
ANALYSES REQUESTED →	ORGANIC: VOA	BNA	~~Pest~~ PCB	Herb	PAHs	PEST		INORG: Metal	Cn	Anions	CrO4	Nitr Nitr			

Lionville Laboratory Use Only

MATRIX CODES:
S- Soil
SE- Sediment
SO- Solid
SL- Sludge
W- Water
O- Oil
A- Air
DS- Drum Solids
DL- Drum Liquids
L- EP/TCLP Leachate
WI- Wipe
X- Other
F- Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	VOA, TCL	BNA, TCL	PCB		8310	Pest		Metals		Anions	CrO4	Nitr Nitr
01	JIB 595			Soil	6/15/10	1105	X	X	X		X	X		X		X	X	X
02	96					1125	X	X	X		X	X		X		X	X	X
03	97					1145	X	X	X		X	X		X		X	X	X
04	98					1140	X	X	X		X	X		X		X	X	X
05	99					1245	X	X	X		X	X		X		X	X	X
06	B0					1305	X	X	X		X	X		X		X	X	X
07	B1					1325	X	X	X		X	X		X		X	X	X
08	B2					1320	X	X	X		X	X		X		X	X	X
09	B3					1330	X	X	X		X	X		X		X	X	X
10	B4					1340	X	X	X		X	X		X		X	X	X

Special Instructions: MATRIX QC
Non Rad
JD.

METHOD = HS2+B, Mo; Sr (NO TL)

Special Instructions:
1.
2.
3.
4.
5.
6.

Relinquished by	Received by	Date	Time
FedEx	[signature]	6/17/10	1020

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time

Lionville Laboratory Use Only

1006082

Custody Transfer Record/Lab Work Request

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

LVLI Lionville Laboratory Inc.

Client: WC Hanford SAF# RC-107

Est. Final Proj. Sampling Date:

Project#:

Project Contact/Phone#:

Lionville Laboratory Project Manager: O. JOHNSON

QC: ZW Del: SAL TAT: 21 Days

Date Rec'd: 6-17-10 Date Due: 7-8-10

Refrigerator #		NOA	2	2		2	2		2			1	2			
#/Type Container	~~Liquid~~ Solid	1AG	1AG	1AG		1AG	1AG		1			1	1			
Volume		60	120	60		120	120		125			1	125			
Preservatives												1				
ANALYSES REQUESTED →		ORGANIC							INORG							
		VOA	BNA	~~Pest~~ PCB	~~Herb~~	PAHs	PST		Metal Hg ~~CN~~		IC Anions	CrT6	NO2 NO3			

MATRIX CODES:	Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	Lionville Laboratory Use Only														
S- Soil SE- Sediment SO- Solid SL- Sludge W- Water O- Oil A- Air DS- Drum Solids DL- Drum Liquids L- EP/TCLP Leachate WI- Wipe X- Other F- Fish	11	JIB5B5			Soil	6-15-10	1355	X	X	X		X	X		X		X	X	X			
	12	B6					1400	X	X	X		X	X		X		X	X	X			
	13	B7					1145	X	X	X		X	X		X		X	X	X			
	14	D3					0845	X	VH 6/17/10													

Special Instructions:

Special Instructions:

1.
2.
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6.

Relinquished by	Received by	Date	Time
Fed Ex	[illegible]	6/17/10	1020

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time

1006082

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-035	Page 1 of 3

Collector: J. Sellers	Company Contact: Don Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Drain Field Excavation Area		SAF No.: RC-107
Ice Chest No.: WCH-08-034	Field Logbook No.: EL 1627-4	COA: 0607H32000	Method of Shipment: Fed Ex
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: A 100 220		Bill of Lading/Air Bill No.: See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	
Type of Container	G/P	G/P	G/P	G/P	aG	aG	aG	aG	aG	
No. of Container(s)	1	0	0	1	1	1	1	1	1	
Volume	125mL	60mL	60mL	125mL	60mL	120mL	60mL	120mL	120mL	
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	NO2/NO3 - 353.2	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081	

Sample No.	Matrix *	Sample Date	Sample Time										
J1B595	SOIL	6-15-10	1105	X	X	X	X	X	X	X	X	X	
J1B596	SOIL	6-15-10	1125	X	X	X	X	X	X	X	X	X	
J1B597	SOIL	6-15-10	1145	X	X	X	X	X	X	X	X	X	
J1B598	SOIL	6-15-10	1140	X	X	X	X	X	X	X	X	X	
J1B599	SOIL	6-15-10	1245	X	X	X	X	X	X	X	X	X	

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From: J. Sellers Josh Sellers	Date/Time: 6-15-10 1440	Received By/Stored In: Sterling Howell	Date/Time: 6-15-10 1440
Relinquished By/Removed From: Sterling Howell	Date/Time: 6-15-10 1645	Received By/Stored In: Daniel Hansen	Date/Time: 6-15-10 / 1645
Relinquished By/Removed From: Daniel Hansen WCH	Date/Time: 6-16-10 / 1000	Received By/Stored In: FED EX	Date/Time:
Relinquished By/Removed From: FEDEX	Date/Time: 6-17-10 1020	Received By/Stored In: VICTOR HERNANDEZ	Date/Time: 6-17-10 1020
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)
(2) IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}

REVIEWED BY JEB DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wi=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-035	Page 2 of 3

Collector: J. Sellers	Company Contact: Don Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Drain Field Excavation Area		SAF No.: RC-107
Ice Chest No.: WCH-08-034	Field Logbook No.: EL 1627-4	COA: 0607H32000	Method of Shipment: Fed Ex
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: A 100220		Bill of Lading/Air Bill No.: See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	
Type of Container	G/P	G/P	G/P	G/P	aG	aG	aG	aG	aG	
No. of Container(s)	1	0	0	1	1	1	1	1	1	
Volume	125mL	60mL	60mL	125mL	60mL	120mL	60mL	120mL	120mL	
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	NO2/NO3 - 353.2	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081	

Sample No.	Matrix *	Sample Date	Sample Time										
J1B5B0	SOIL	6-15-10	1305	X	X	X	X	X	X	X	X	X	
J1B5B1	SOIL	6-15-10	1325	X	X	X	X	X	X	X	X	X	
J1B5B2	SOIL	6-15-10	1320	X	X	X	X	X	X	X	X	X	
J1B5B3	SOIL	6-15-10	1330	X	X	X	X	X	X	X	X	X	
J1B5B4	SOIL	6-15-10	1340	X	X	X	X	X	X	X	X	X	

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J. Sellers / Josh Sellers	6-15-10 1440	Starling Howell	6-15-10 1440
Starling Howell	6-15-10 1645	Daniel Herrera	6-15-10 1645
Daniel Herrera (WCH)	6-16-10 1000	FED EX	
[illegible]	6-17-10 1020	[illegible]	6/17/10 6-17-10 1020
		[illegible]	7/13/10

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)
(2) IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}

REVIEWED BY JEB DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
SL=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

5969881 7

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-035	Page 3 of 3

Collector J. Sellers	Company Contact: Don Woolery; Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH	Price Code: 8L; Data Turnaround: 21 Days
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Drain Field Excavation Area	SAF No.: RC-107	
Ice Chest No. WCH-08-034	Field Logbook No.: EL 1627-4; COA: 0607H32000	Method of Shipment: Fed Ex	
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No. A100220	Bill of Lading/Air Bill No.: See OSPC	

POSSIBLE SAMPLE ~~HAZARDS/REMARKS~~

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C		
Type of Container	G/P	G/P	G/P	G/P	aG	aG	aG	aG	aG		
No. of Container(s)	1	0	0	1	1	1	1	1	1		
Volume	125mL	60mL	60mL	125mL	60mL	120mL	60mL	120mL	120mL		
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	NO2/NO3 - 353.2	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081		
Sample No. / Matrix * / Sample Date / Sample Time											
J1B5B5 / SOIL / 6-15-10 / 1355	X	X	X	X	X	X	X	X	X		
J1B5B6 / SOIL / 6-15-10 / 1400	X	X	X	X	X	X	X	X	X		
J1B5B7 / SOIL / 6-15-10 / 1145	X	X	X	X	X	X	X	X	X		

CHAIN OF POSSESSION	Sign/Print Names	Date/Time
Relinquished By/Removed From: J. Sellers Josh Sellers	Received By/Stored In: Sterling Howell	6-15-10 1440
Relinquished By/Removed From: Sterling Howell	Received By/Stored In: Daniel Herrera	6-15-10 1645
Relinquished By/Removed From: Daniel Herrera WCH	Received By/Stored In: FED EX.	6-16-10 1000
Relinquished By/Removed From: Fed Ex	Received By/Stored In: VICTOR HERNANDEZ	6-17-10 1020
Relinquished By/Removed From	Received By/Stored In	
Relinquished By/Removed From	Received By/Stored In	

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc); Mercury - 7471 - (CV)
(2) IC Anions - 300.0 (Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate)

REVIEWED BY JEB DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-037	Page 1 of 1

Collector: J. Sellers	Company Contact: Don Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Trip Blanks		SAF No.: RC-107
Ice Chest No.: WCH-08-034	Field Logbook No.: EL 1627-4	COA: 0607H32000	Method of Shipment: Fed Ex
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: A100220		Bill of Lading/Air Bill No.: See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	Cool 4C										
Type of Container	aG										
No. of Container(s)	1										
Volume	60mL										
SAMPLE ANALYSIS	VOA - 8260A (TCL)										

Sample No.	Matrix *	Sample Date	Sample Time										
~~J1B5D2~~	~~SOIL~~	6/15/10											
J1B5D3	SOIL	6-15-10	~~0840~~ 0845 ~~6-15-10~~	X									

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J. Sellers	6-15-10 1440	Sterling Howell	6-15-10 1440
Sterling Howell	6-15-10 1645	Daniel Herrera	6-15-10 / 1645
Daniel Herrera (WCH)	6-16-10 / 1000	FED EX	
	6/7/10 1010	Victor Hernandez	6-17-10 1020
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

REVIEWED BY JEB
DATE 6-16-10

Matrix *

S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Lionville Laboratory

SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: WCH Hanford
Project/SAF/SOW/Release #: RC-107

Date: 6/17/10

LvL Batch #: 1006082

Sample Custodian: [illegible]

NOTE. EXPLAIN ALL DISCREPANCIES

1. Samples Hand Delivered or Shipped?	Carrier FED EX		Airbill # 7936 4256 7389 7437 7470
2. Custody Seals on coolers or shipping containers intact, signed & dated?	☑ Yes	☐ No	☐ No Seals
3. Outside of coolers or shipping containers are free from damage?	☑ Yes	☐ No	Comments: Cooler outside cracked inside
4. All expected paperwork received (coc & other client specific information) sealed in plactic bag and easily accessible?	☑ Yes	☐ No	
5. Samples received cooled or ambient?	Temp 2.1 2.2 3.2	°C	Cooler # WCH-08-034 025 BHI-94
How was the temperature taken?	☑ IR	☐ Temp. Blank	☐ Other (Specify)
Is the Temp. Criteria met for these samples? (Hg in soils @ 4°C)	☑ Yes	☐ No	
6. Custody seals on sample containers intact, signed and dated?	☑ Yes	☐ No	☐ No Seals
7. COC (Client & LvL) signed & dated?	☑ Yes	☐ No	
8. Sample containers are intact?	☑ Yes	☐ No	
9. All samples on COC received?	☑ Yes	☐ No	
All samples received on COC?	☑ Yes	☐ No	
10. All sample label information matches COC?	☑ Yes	☐ No	
11. Samples properly preserved? (If #5 is no. then this is no.)	☑ Yes	☐ No	
12. Samples received within hold times? X yes	~~☑ Yes~~ 05 7/19/10	☑ No	NO2, NO3, OPO4 rec'd outside of contract 05 7/19/10
Short holds taken to wet lab?	☐ Yes	☐ No	☐ N/A
13. VOA, TOC, TOX free of headspace?	☑ Yes	☐ No	☐ N/A
14. QC stickers placed on bottles designated by client?	☐ Yes	☐ No	☑ N/A
15. Shipment meets LvL Sample Acceptance Policy? (Identify all bottles that do not meet the policy, which is on the reverse of this page.)	☑ Yes	☐ No	
16. Project Manager contacted concerning any discrepancies?	☐ Yes	☐ No	☑ N/A

Person Contacted _____ Date _____

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

Analytical Report for Semivolatile Organic Compounds by SW846 8270C

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
J1B595	1006082-01	Soil	06/15/2010 11:05	06/17/2010 10:20
J1B596	1006082-02	Soil	06/15/2010 11:25	06/17/2010 10:20
J1B597	1006082-03	Soil	06/15/2010 11:45	06/17/2010 10:20
J1B598	1006082-04	Soil	06/15/2010 11:40	06/17/2010 10:20
J1B599	1006082-05	Soil	06/15/2010 12:45	06/17/2010 10:20
J1B5B0	1006082-06	Soil	06/15/2010 13:05	06/17/2010 10:20
J1B5B1	1006082-07	Soil	06/15/2010 13:25	06/17/2010 10:20
J1B5B2	1006082-08	Soil	06/15/2010 13:20	06/17/2010 10:20
J1B5B3	1006082-09	Soil	06/15/2010 13:30	06/17/2010 10:20
J1B5B4	1006082-10	Soil	06/15/2010 13:40	06/17/2010 10:20
J1B5B5	1006082-11	Soil	06/15/2010 13:55	06/17/2010 10:20
J1B5B6	1006082-12	Soil	06/15/2010 14:00	06/17/2010 10:20
J1B5B7	1006082-13	Soil	06/15/2010 11:45	06/17/2010 10:20

LIONVILLE LABORATORY
A division of Eberline Analytical Corporation

264 Welsh Pool Road
Exton, Pennsylvania 19341
Phone (610) 280-3000
Fax (610) 280-3041

Case Narrative

Client: WC-HANFORD RC-107 K2099
LVL #: 1006082

W.O. #: 60049-001-001-0001-00
Date Received: 06-17-2010

SEMIVOLATILE

Thirteen (13) soil samples were collected on 06-15-2010.

The samples and associated QC samples were extracted on 06-17-2010 and analyzed 06-21,22,23-2010 according to Lionville Laboratory SOPs. The extraction procedure was based on SW846 Method 3540C, and the analysis procedure was based on SW846 Method 8270C for TCL Semivolatile target compounds.

Lionville Laboratory (LvL) is NELAP accredited by the State of Pennsylvania. For a complete listing of accrediting authorities and the corresponding analytes/methods, please contact your Project Manager. LvL certifies that all test results meet the requirements of NELAC with any exception noted in the following statements:

1. The results presented in this report are derived from samples that met LvL's sample acceptance policy.

2. Samples were extracted and analyzed within holding time.

3. Non-target compounds were detected in these samples.

4. All obtainable surrogate recoveries were within acceptance criteria.

5. The method blank was below the reporting limit for all target compounds.

6. Eleven (11) of sixty-four (64) blank spike recoveries were outside acceptance criteria. A copy of the Sample Discrepancy Report (SDR# 10MS199) has been enclosed.

7. Twenty-seven (27) of one hundred twenty-eight (128) matrix spike recoveries were outside acceptance criteria. A copy of the Sample Discrepancy Report (SDR# 10MS199) has been enclosed.

8. The samples were reported on a dry weight basis.

9. All initial calibrations associated with this data set were within acceptance criteria.

10. All continuing calibration standards analyzed prior to sample extracts were within acceptance criteria.

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 30 pages.

11. Internal standard area and retention time criteria were met.

12. Manual integrations are performed according to SOP QA-125 to produce quality data with the utmost integrity. All manual integrations are required to be technically valid and properly documented. Appropriate technical flags are defined in the Glossary ("Technical Flags For Manual Integration").

13. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hardcopy package has been authorized by the Laboratory Manager or designee, as verified by the following signature.

for Iain Daniels
LvL Laboratory Manager

7/9/10
Date

Lionville Laboratory Sample Discrepancy Report (SDR)

SDR #: 10MS199

Initiator: Shawn Saylor
Date: 7-7-10
Client: Wellington RC-107

Batch: 1006 OF L
Samples: BS, ms, msd
Method: SW846/MCAWW/CLP/

Parameter: 8270
Matrix: Soil
Prep Batch: L006196

1. Reason for SDR

a. COC Discrepancy __ Tech Profile Error __ Client Request __ Sampler Error on C-O-C __ Transcription Error __ Wrong Test Code __ Other _____

b. General Discrepancy

__ Missing Sample/Extract __ Container Broken __ Wrong Sample Pulled __ Label ID's Illegible
__ Hold Time Exceeded __ Insufficient Sample __ Preservation Wrong __ Received Past Hold
__ Improper Bottle Type __ Not Amenable to Analysis

Note: Verified by [Log-In] or [Prep Group] (circle)...signature/date: _____

c. Problem (Include all relevant specific results; attach data if necessary)

Spike recoveries outside QC acceptance Limits in BS, ms, msd

2. Known or Probable Causes(s) possible loss of a portion of the extract during sample concentration as All spikes appear low. Surrogates appear to be all within criteria.

3. Discussion and Proposed Action Other Description:

__ Re-log
__ Entire Batch
__ Following Samples: _____
__ Re-leach
__ Re-extract
__ Re-digest
__ Revise EDD
__ Change Test Code to _____
__ Place On/Take Off Hold (circle)

narrate All samples run defect no impact on the data

7/8/10

4. Project Manager Instructions...signature/date: _____

✓ Concur with Proposed Action
__ Disagree with Proposed Action; See Instruction
__ Include in Case Narrative
__ Client Contacted:
Date/Person _____
__ Add
__ Cancel

5. Final Action...signature/date: 7/8/10 Other Explanation:

__ Verified re-[log][leach][extract][digest][analysis] (circle)
✓ Included in Case Narrative
__ Hard Copy COC Revised
__ Electronic COC Revised
__ EDD Corrections Completed

When Final Action has been recorded, forward original to QA for diposition.

Route
__ Lab Manager: Daniels
✓ Project Mgr (circle): Johnson / Stone
__ Sample Prep (circle): ~~Ford~~
__ Log-in: King

Route
__ Metals: Welsh / _____
__ Inorganic: Perrone / _____
__ GC/LC: Carey / _____
__ MS VOA: Rubino / _____
✓ MS BNA: Carden / _____
__ Other: _____

QA-139-A-0208

GLOSSARY

DATA QUALIFIERS

U = Indicates that the compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.

J = Indicates an estimated value. This flag is used under the following circumstances: 1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; or 2) when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. For example, if the limit of detection is 10 ug/L and a concetration of 3 ug/L is calculated, it is reported as 3J.

B = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.

E = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.

D = Identifies all compounds identified in an analysis at a secondary dilution factor.

I = Interference.

NQ = Result qualitatively confirmed but not able to quantify.

A = Indicates that a TIC is a suspected aldol-condensation product.

N = Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

X = This flag is used for a TIC compound which is quantified relative to a response factor generated from a daily calibration standard (rather than quantified relative to the closest internal standard).

Y = Additional qualifiers used as required are explained in the case narrative.

GLOSSARY

ABBREVIATIONS

BS	=	Indicates blank spike in which reagent grade water is spiked with the CLP matrix spike solutions and carried through all the steps in the method. Spike recoveries are reported.
BSD	=	Indicates blank spike duplicate.
MS	=	Indicates matrix spike.
MSD	=	Indicates matrix spike duplicate.
DL	=	Suffix added to sample number to indicate that results are from a diluted analysis.
NA	=	Not Applicable.
DF	=	Dilution Factor.
NR	=	Not Required.
SP, Z	=	Indicates Spiked Compound.

TECHNICAL FLAGS FOR MANUAL INTEGRATION

Manual quan modifications are performed routinely to improve the data quality for a variety of technical reasons. Documentation of these modifications should be clear and concise. The following "flags" are used to indicate the technical reasons for quan modifications:

MP	-	Missed Peak: Manually added peak not found by automatic quan program.
PA	-	Peak Assignment: quan report was changed to reflect correct peak assignment.
RI	-	Routine Integration: routine integrations are performed for some analytes that are consistently integrated improperly by the automatic integration programs. Examples are the dichlorobenzene isomers on the VOA packed column and benzo(b)fluoranthene/benzo(k)fluoranthene which are poorly resolved on the BNA column.
SP	-	Split Peak: the automatic integration improperly split the peak; a manual integration was performed to get the correct area.
CB	-	Coelution/Background: peak was manually integrated to eliminate contribution from coeluting compounds, background signal., or other interference.
PI	-	Proper Integration: a peak with poor or inconsistent integration (e.g., excessive tail) was properly integrated manually.

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

J1B595

1006082-01 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Semivolatile Organic Compounds by SW846 8270C								
1,2,4-Trichlorobenzene	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
1,2-Dichlorobenzene	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
1,3-Dichlorobenzene	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
1,4-Dichlorobenzene	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2,4,5-Trichlorophenol	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2,4,6-Trichlorophenol	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2,4-Dichlorophenol	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2,4-Dimethylphenol	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2,4-Dinitrophenol	1700 U	1700	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2,4-Dinitrotoluene	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2,6-Dinitrotoluene	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2-Chloronaphthalene	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2-Chlorophenol	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2-Methylnaphthalene	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2-Methylphenol	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2-Nitroaniline	1700 U	1700	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2-Nitrophenol	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
3,3'-Dichlorobenzidine	680 U	680	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
3-Nitroaniline	1700 U	1700	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
4,6-Dinitro-2-methylphenol	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
4-Bromophenyl Phenyl Ether	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
4-Chloro-3-methylphenol	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
4-Chloroaniline	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
4-Chlorophenyl Phenyl Ether	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
3- and/or 4-Methylphenol	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
4-Nitroaniline	1700 U	1700	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
4-Nitrophenol	1700 U	1700	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Acenaphthene	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Acenaphthylene	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Anthracene	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Benz[a]anthracene	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Benzo[a] pyrene	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Benzo[b] fluoranthene	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Benzo[g,h,i] perylene	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Benzo[k] fluoranthene	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Bis(2-chloroethoxy) methane	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Bis(2-chloroethyl) ether	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Bis(2-chloroisopropyl) ether	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Bis(2-ethylhexyl) phthalate	340 U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C

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Phone: 610-280-3000
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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

J1B595

1006082-01 (Soil)

Analyte	Result and Qualifier		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
			Lionville Laboratory						
Semivolatile Organic Compounds by SW846 8270C									
Butyl Benzyl Phthalate	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Carbazole	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Chrysene	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Dibenz[a,h]anthracene	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Dibenzofuran	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Diethyl Phthalate	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Dimethyl Phthalate	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Di-n-butyl Phthalate	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Di-n-octyl Phthalate	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Fluoranthene	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Fluorene	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Hexachlorobenzene	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Hexachlorobutadiene	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Hexachlorocyclopentadiene	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Hexachloroethane	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Indeno[1,2,3-cd]pyrene	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Isophorone	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Naphthalene	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Nitrobenzene	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
N-Nitrosodi-n-propylamine	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
N-Nitrosodiphenylamine	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Pentachlorophenol	1700	U	1700	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Phenanthrene	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Phenol	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Pyrene	340	U	340	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
TIC:Unknown 3	**556**	J		ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
TIC:Unknown 2	**703**	J		ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
TIC:Unknown 1	**291**	B, J		ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
TIC:Aldol 1	**102000**	A, B, J		ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Surrogate: 2-Fluorophenol	*60 %*		*25-121*			*L006196*	*06/17/2010*	*06/21/2010*	*8270C*
Surrogate: Phenol-d5	*54 %*		*24-113*			*L006196*	*06/17/2010*	*06/21/2010*	*8270C*
Surrogate: Nitrobenzene-d5	*54 %*		*23-120*			*L006196*	*06/17/2010*	*06/21/2010*	*8270C*
Surrogate: 2-Fluorobiphenyl	*56 %*		*30-115*			*L006196*	*06/17/2010*	*06/21/2010*	*8270C*
Surrogate: 2,4,6-Tribromophenol	*41 %*		*19-122*			*L006196*	*06/17/2010*	*06/21/2010*	*8270C*
Surrogate: p-Terphenyl-d14	*54 %*		*18-137*			*L006196*	*06/17/2010*	*06/21/2010*	*8270C*

264 Welsh Pool Road
Exton, PA 19341
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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

J1B596

1006082-02 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Semivolatile Organic Compounds by SW846 8270C								
1,2,4-Trichlorobenzene	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
1,2-Dichlorobenzene	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
1,3-Dichlorobenzene	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
1,4-Dichlorobenzene	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2,4,5-Trichlorophenol	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2,4,6-Trichlorophenol	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2,4-Dichlorophenol	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2,4-Dimethylphenol	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2,4-Dinitrophenol	1670 U	1670	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2,4-Dinitrotoluene	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2,6-Dinitrotoluene	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2-Chloronaphthalene	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2-Chlorophenol	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2-Methylnaphthalene	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2-Methylphenol	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2-Nitroaniline	1670 U	1670	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
2-Nitrophenol	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
3,3'-Dichlorobenzidine	667 U	667	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
3-Nitroaniline	1670 U	1670	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
4,6-Dinitro-2-methylphenol	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
4-Bromophenyl Phenyl Ether	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
4-Chloro-3-methylphenol	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
4-Chloroaniline	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
4-Chlorophenyl Phenyl Ether	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
3- and/or 4-Methylphenol	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
4-Nitroaniline	1670 U	1670	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
4-Nitrophenol	1670 U	1670	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Acenaphthene	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Acenaphthylene	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Anthracene	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Benz[a]anthracene	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Benzo[a] pyrene	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Benzo[b] fluoranthene	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Benzo[g,h,i] perylene	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Benzo[k] fluoranthene	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Bis(2-chloroethoxy) methane	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Bis(2-chloroethyl) ether	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Bis(2-chloroisopropyl) ether	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Bis(2-ethylhexyl) phthalate	333 U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C

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WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-107 Project Number: K2099 Project Manager: Joan Kessner	**Reported:** 07/08/2010 15:10

J1B596

1006082-02 (Soil)

Analyte	Result and Qualifier		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory									
Semivolatile Organic Compounds by SW846 8270C									
Butyl Benzyl Phthalate	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Carbazole	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Chrysene	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Dibenz[a,h]anthracene	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Dibenzofuran	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Diethyl Phthalate	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Dimethyl Phthalate	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Di-n-butyl Phthalate	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Di-n-octyl Phthalate	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Fluoranthene	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Fluorene	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Hexachlorobenzene	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Hexachlorobutadiene	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Hexachlorocyclopentadiene	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Hexachloroethane	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Indeno[1,2,3-cd]pyrene	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Isophorone	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Naphthalene	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Nitrobenzene	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
N-Nitrosodi-n-propylamine	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
N-Nitrosodiphenylamine	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Pentachlorophenol	1670	U	1670	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Phenanthrene	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Phenol	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Pyrene	333	U	333	ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
TIC:Unknown 3	**903**	J		ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
TIC:Unknown 2	**252**	J		ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
TIC:Unknown 1	**392**	B, J		ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
TIC:Aldol 1	**83300**	A, B, J		ug/kg dry	1	L006196	06/17/2010	06/21/2010	8270C
Surrogate: 2-Fluorophenol	*57 %*		*25-121*			*L006196*	*06/17/2010*	*06/21/2010*	*8270C*
Surrogate: Phenol-d5	*51 %*		*24-113*			*L006196*	*06/17/2010*	*06/21/2010*	*8270C*
Surrogate: Nitrobenzene-d5	*57 %*		*23-120*			*L006196*	*06/17/2010*	*06/21/2010*	*8270C*
Surrogate: 2-Fluorobiphenyl	*56 %*		*30-115*			*L006196*	*06/17/2010*	*06/21/2010*	*8270C*
Surrogate: 2,4,6-Tribromophenol	*40 %*		*19-122*			*L006196*	*06/17/2010*	*06/21/2010*	*8270C*
Surrogate: p-Terphenyl-d14	*58 %*		*18-137*			*L006196*	*06/17/2010*	*06/21/2010*	*8270C*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

J1B597

1006082-03 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Semivolatile Organic Compounds by SW846 8270C								
1,2,4-Trichlorobenzene	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
1,2-Dichlorobenzene	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
1,3-Dichlorobenzene	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
1,4-Dichlorobenzene	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2,4,5-Trichlorophenol	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2,4,6-Trichlorophenol	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2,4-Dichlorophenol	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2,4-Dimethylphenol	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2,4-Dinitrophenol	1640 U	1640	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2,4-Dinitrotoluene	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2,6-Dinitrotoluene	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2-Chloronaphthalene	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2-Chlorophenol	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2-Methylnaphthalene	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2-Methylphenol	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2-Nitroaniline	1640 U	1640	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2-Nitrophenol	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
3,3'-Dichlorobenzidine	655 U	655	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
3-Nitroaniline	1640 U	1640	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
4,6-Dinitro-2-methylphenol	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
4-Bromophenyl Phenyl Ether	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
4-Chloro-3-methylphenol	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
4-Chloroaniline	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
4-Chlorophenyl Phenyl Ether	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
3- and/or 4-Methylphenol	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
4-Nitroaniline	1640 U	1640	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
4-Nitrophenol	1640 U	1640	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Acenaphthene	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Acenaphthylene	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Anthracene	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Benz[a]anthracene	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Benzo[a] pyrene	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Benzo[b] fluoranthene	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Benzo[g,h,i] perylene	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Benzo[k] fluoranthene	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Bis(2-chloroethoxy) methane	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Bis(2-chloroethyl) ether	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Bis(2-chloroisopropyl) ether	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Bis(2-ethylhexyl) phthalate	328 U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

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1006082-03 (Soil)

Analyte	Result and Qualifier		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory									
Semivolatile Organic Compounds by SW846 8270C									
Butyl Benzyl Phthalate	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Carbazole	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Chrysene	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Dibenz[a,h]anthracene	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Dibenzofuran	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Diethyl Phthalate	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Dimethyl Phthalate	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Di-n-butyl Phthalate	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Di-n-octyl Phthalate	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Fluoranthene	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Fluorene	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Hexachlorobenzene	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Hexachlorobutadiene	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Hexachlorocyclopentadiene	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Hexachloroethane	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Indeno[1,2,3-cd]pyrene	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Isophorone	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Naphthalene	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Nitrobenzene	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
N-Nitrosodi-n-propylamine	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
N-Nitrosodiphenylamine	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Pentachlorophenol	1640	U	1640	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Phenanthrene	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Phenol	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Pyrene	328	U	328	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
TIC:Unknown 3	**400**	J		ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
TIC:Unknown 1	**972**	B, J		ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
TIC:Unknown 2	**304**	J		ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
TIC:Aldol 1	**191000**	A, B, J		ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Surrogate: 2-Fluorophenol	*70 %*		*25-121*			*L006196*	*06/17/2010*	*06/22/2010*	*8270C*
Surrogate: Phenol-d5	*63 %*		*24-113*			*L006196*	*06/17/2010*	*06/22/2010*	*8270C*
Surrogate: Nitrobenzene-d5	*74 %*		*23-120*			*L006196*	*06/17/2010*	*06/22/2010*	*8270C*
Surrogate: 2-Fluorobiphenyl	*78 %*		*30-115*			*L006196*	*06/17/2010*	*06/22/2010*	*8270C*
Surrogate: 2,4,6-Tribromophenol	*70 %*		*19-122*			*L006196*	*06/17/2010*	*06/22/2010*	*8270C*
Surrogate: p-Terphenyl-d14	*89 %*		*18-137*			*L006196*	*06/17/2010*	*06/22/2010*	*8270C*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

J1B598

1006082-04 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Semivolatile Organic Compounds by SW846 8270C								
1,2,4-Trichlorobenzene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
1,2-Dichlorobenzene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
1,3-Dichlorobenzene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
1,4-Dichlorobenzene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2,4,5-Trichlorophenol	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2,4,6-Trichlorophenol	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2,4-Dichlorophenol	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2,4-Dimethylphenol	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2,4-Dinitrophenol	1640 U	1640	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2,4-Dinitrotoluene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2,6-Dinitrotoluene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2-Chloronaphthalene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2-Chlorophenol	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2-Methylnaphthalene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2-Methylphenol	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2-Nitroaniline	1640 U	1640	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2-Nitrophenol	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
3,3'-Dichlorobenzidine	658 U	658	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
3-Nitroaniline	1640 U	1640	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
4,6-Dinitro-2-methylphenol	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
4-Bromophenyl Phenyl Ether	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
4-Chloro-3-methylphenol	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
4-Chloroaniline	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
4-Chlorophenyl Phenyl Ether	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
3- and/or 4-Methylphenol	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
4-Nitroaniline	1640 U	1640	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
4-Nitrophenol	1640 U	1640	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Acenaphthene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Acenaphthylene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Anthracene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Benz[a]anthracene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Benzo[a] pyrene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Benzo[b] fluoranthene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Benzo[g,h,i] perylene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Benzo[k] fluoranthene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Bis(2-chloroethoxy) methane	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Bis(2-chloroethyl) ether	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Bis(2-chloroisopropyl) ether	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Bis(2-ethylhexyl) phthalate	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

J1B598

1006082-04 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Semivolatile Organic Compounds by SW846 8270C								
Butyl Benzyl Phthalate	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Carbazole	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Chrysene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Dibenz[a,h]anthracene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Dibenzofuran	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Diethyl Phthalate	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Dimethyl Phthalate	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Di-n-butyl Phthalate	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Di-n-octyl Phthalate	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Fluoranthene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Fluorene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Hexachlorobenzene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Hexachlorobutadiene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Hexachlorocyclopentadiene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Hexachloroethane	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Indeno[1,2,3-cd]pyrene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Isophorone	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Naphthalene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Nitrobenzene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
N-Nitrosodi-n-propylamine	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
N-Nitrosodiphenylamine	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Pentachlorophenol	1640 U	1640	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Phenanthrene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Phenol	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Pyrene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
TIC:Unknown 2	**163** J		ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
TIC:Unknown 1	**355** B, J		ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
TIC:Unknown 3	**1140** J		ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
TIC:Aldol 1	**86800** A, B, J		ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Surrogate: 2-Fluorophenol	*69 %*	*25-121*			*L006196*	*06/17/2010*	*06/22/2010*	*8270C*
Surrogate: Phenol-d5	*63 %*	*24-113*			*L006196*	*06/17/2010*	*06/22/2010*	*8270C*
Surrogate: Nitrobenzene-d5	*78 %*	*23-120*			*L006196*	*06/17/2010*	*06/22/2010*	*8270C*
Surrogate: 2-Fluorobiphenyl	*82 %*	*30-115*			*L006196*	*06/17/2010*	*06/22/2010*	*8270C*
Surrogate: 2,4,6-Tribromophenol	*54 %*	*19-122*			*L006196*	*06/17/2010*	*06/22/2010*	*8270C*
Surrogate: p-Terphenyl-d14	*100 %*	*18-137*			*L006196*	*06/17/2010*	*06/22/2010*	*8270C*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

J1B599

1006082-05 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Semivolatile Organic Compounds by SW846 8270C								
1,2,4-Trichlorobenzene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
1,2-Dichlorobenzene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
1,3-Dichlorobenzene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
1,4-Dichlorobenzene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2,4,5-Trichlorophenol	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2,4,6-Trichlorophenol	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2,4-Dichlorophenol	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2,4-Dimethylphenol	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2,4-Dinitrophenol	1660 U	1660	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2,4-Dinitrotoluene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2,6-Dinitrotoluene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2-Chloronaphthalene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2-Chlorophenol	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2-Methylnaphthalene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2-Methylphenol	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2-Nitroaniline	1660 U	1660	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
2-Nitrophenol	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
3,3'-Dichlorobenzidine	662 U	662	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
3-Nitroaniline	1660 U	1660	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
4,6-Dinitro-2-methylphenol	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
4-Bromophenyl Phenyl Ether	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
4-Chloro-3-methylphenol	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
4-Chloroaniline	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
4-Chlorophenyl Phenyl Ether	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
3- and/or 4-Methylphenol	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
4-Nitroaniline	1660 U	1660	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
4-Nitrophenol	1660 U	1660	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Acenaphthene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Acenaphthylene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Anthracene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Benz[a]anthracene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Benzo[a] pyrene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Benzo[b] fluoranthene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Benzo[g,h,i] perylene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Benzo[k] fluoranthene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Bis(2-chloroethoxy) methane	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Bis(2-chloroethyl) ether	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Bis(2-chloroisopropyl) ether	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Bis(2-ethylhexyl) phthalate	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

J1B599

1006082-05 (Soil)

Analyte	Result and Qualifier		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory									
Semivolatile Organic Compounds by SW846 8270C									
Butyl Benzyl Phthalate	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Carbazole	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Chrysene	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Dibenz[a,h]anthracene	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Dibenzofuran	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Diethyl Phthalate	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Dimethyl Phthalate	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Di-n-butyl Phthalate	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Di-n-octyl Phthalate	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Fluoranthene	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Fluorene	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Hexachlorobenzene	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Hexachlorobutadiene	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Hexachlorocyclopentadiene	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Hexachloroethane	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Indeno[1,2,3-cd]pyrene	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Isophorone	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Naphthalene	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Nitrobenzene	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
N-Nitrosodi-n-propylamine	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
N-Nitrosodiphenylamine	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Pentachlorophenol	1660	U	1660	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Phenanthrene	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Phenol	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Pyrene	331	U	331	ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
TIC:Unknown 3	**1170**	J		ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
TIC:Unknown 2	**190**	J		ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
TIC:Unknown 1	**357**	B, J		ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
TIC:Aldol 1	**76800**	A, B, J		ug/kg dry	1	L006196	06/17/2010	06/22/2010	8270C
Surrogate: 2-Fluorophenol	*71 %*		*25-121*			*L006196*	*06/17/2010*	*06/22/2010*	*8270C*
Surrogate: Phenol-d5	*63 %*		*24-113*			*L006196*	*06/17/2010*	*06/22/2010*	*8270C*
Surrogate: Nitrobenzene-d5	*77 %*		*23-120*			*L006196*	*06/17/2010*	*06/22/2010*	*8270C*
Surrogate: 2-Fluorobiphenyl	*80 %*		*30-115*			*L006196*	*06/17/2010*	*06/22/2010*	*8270C*
Surrogate: 2,4,6-Tribromophenol	*50 %*		*19-122*			*L006196*	*06/17/2010*	*06/22/2010*	*8270C*
Surrogate: p-Terphenyl-d14	*90 %*		*18-137*			*L006196*	*06/17/2010*	*06/22/2010*	*8270C*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

J1B5B0

1006082-06 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Semivolatile Organic Compounds by SW846 8270C								
1,2,4-Trichlorobenzene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,2-Dichlorobenzene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,3-Dichlorobenzene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,4-Dichlorobenzene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4,5-Trichlorophenol	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4,6-Trichlorophenol	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dichlorophenol	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dimethylphenol	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dinitrophenol	1630 U	1630	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dinitrotoluene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,6-Dinitrotoluene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Chloronaphthalene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Chlorophenol	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Methylnaphthalene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Methylphenol	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Nitroaniline	1630 U	1630	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Nitrophenol	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3,3'-Dichlorobenzidine	653 U	653	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3-Nitroaniline	1630 U	1630	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4,6-Dinitro-2-methylphenol	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Bromophenyl Phenyl Ether	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chloro-3-methylphenol	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chloroaniline	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chlorophenyl Phenyl Ether	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3- and/or 4-Methylphenol	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Nitroaniline	1630 U	1630	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Nitrophenol	1630 U	1630	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Acenaphthene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Acenaphthylene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Anthracene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benz[a]anthracene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[a] pyrene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[b] fluoranthene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[g,h,i] perylene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[k] fluoranthene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroethoxy) methane	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroethyl) ether	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroisopropyl) ether	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-ethylhexyl) phthalate	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

J1B5B0

1006082-06 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Semivolatile Organic Compounds by SW846 8270C								
Butyl Benzyl Phthalate	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Carbazole	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Chrysene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dibenz[a,h]anthracene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dibenzofuran	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Diethyl Phthalate	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dimethyl Phthalate	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Di-n-butyl Phthalate	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Di-n-octyl Phthalate	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Fluoranthene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Fluorene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorobenzene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorobutadiene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorocyclopentadiene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachloroethane	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Indeno[1,2,3-cd]pyrene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Isophorone	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Naphthalene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Nitrobenzene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
N-Nitrosodi-n-propylamine	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
N-Nitrosodiphenylamine	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Pentachlorophenol	1630 U	1630	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Phenanthrene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Phenol	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Pyrene	326 U	326	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 1	**1710** B, J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 3	**592** J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 2	**337** J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Alkane 1	**142** J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Aldol 1	**41100** A, B, J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Surrogate: 2-Fluorophenol	*78 %*	*25-121*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: Phenol-d5	*80 %*	*24-113*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: Nitrobenzene-d5	*81 %*	*23-120*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: 2-Fluorobiphenyl	*84 %*	*30-115*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: 2,4,6-Tribromophenol	*67 %*	*19-122*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: p-Terphenyl-d14	*96 %*	*18-137*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

J1B5B1

1006082-07 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Semivolatile Organic Compounds by SW846 8270C								
1,2,4-Trichlorobenzene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,2-Dichlorobenzene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,3-Dichlorobenzene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,4-Dichlorobenzene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4,5-Trichlorophenol	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4,6-Trichlorophenol	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dichlorophenol	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dimethylphenol	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dinitrophenol	1680 U	1680	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dinitrotoluene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,6-Dinitrotoluene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Chloronaphthalene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Chlorophenol	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Methylnaphthalene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Methylphenol	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Nitroaniline	1680 U	1680	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Nitrophenol	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3,3'-Dichlorobenzidine	671 U	671	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3-Nitroaniline	1680 U	1680	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4,6-Dinitro-2-methylphenol	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Bromophenyl Phenyl Ether	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chloro-3-methylphenol	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chloroaniline	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chlorophenyl Phenyl Ether	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3- and/or 4-Methylphenol	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Nitroaniline	1680 U	1680	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Nitrophenol	1680 U	1680	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Acenaphthene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Acenaphthylene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Anthracene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benz[a]anthracene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[a] pyrene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[b] fluoranthene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[g,h,i] perylene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[k] fluoranthene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroethoxy) methane	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroethyl) ether	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroisopropyl) ether	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-ethylhexyl) phthalate	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

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1006082-07 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Semivolatile Organic Compounds by SW846 8270C								
Butyl Benzyl Phthalate	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Carbazole	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Chrysene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dibenz[a,h]anthracene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dibenzofuran	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Diethyl Phthalate	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dimethyl Phthalate	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Di-n-butyl Phthalate	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Di-n-octyl Phthalate	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Fluoranthene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Fluorene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorobenzene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorobutadiene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorocyclopentadiene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachloroethane	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Indeno[1,2,3-cd]pyrene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Isophorone	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Naphthalene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Nitrobenzene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
N-Nitrosodi-n-propylamine	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
N-Nitrosodiphenylamine	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Pentachlorophenol	1680 U	1680	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Phenanthrene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Phenol	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Pyrene	336 U	336	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Aldol 1	**84100** A, B, J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Aldol 2	**605** A, B, J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 1	**3560** B, J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 2	**2400** J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 3	**249** J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Surrogate: 2-Fluorophenol	*80 %*	*25-121*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: Phenol-d5	*88 %*	*24-113*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: Nitrobenzene-d5	*88 %*	*23-120*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: 2-Fluorobiphenyl	*93 %*	*30-115*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: 2,4,6-Tribromophenol	*90 %*	*19-122*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: p-Terphenyl-d14	*109 %*	*18-137*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*

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2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

J1B5B2

1006082-08 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Semivolatile Organic Compounds by SW846 8270C								
1,2,4-Trichlorobenzene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,2-Dichlorobenzene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,3-Dichlorobenzene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,4-Dichlorobenzene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4,5-Trichlorophenol	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4,6-Trichlorophenol	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dichlorophenol	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dimethylphenol	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dinitrophenol	1620 U	1620	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dinitrotoluene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,6-Dinitrotoluene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Chloronaphthalene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Chlorophenol	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Methylnaphthalene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Methylphenol	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Nitroaniline	1620 U	1620	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Nitrophenol	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3,3'-Dichlorobenzidine	648 U	648	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3-Nitroaniline	1620 U	1620	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4,6-Dinitro-2-methylphenol	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Bromophenyl Phenyl Ether	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chloro-3-methylphenol	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chloroaniline	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chlorophenyl Phenyl Ether	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3- and/or 4-Methylphenol	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Nitroaniline	1620 U	1620	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Nitrophenol	1620 U	1620	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Acenaphthene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Acenaphthylene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Anthracene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benz[a]anthracene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[a] pyrene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[b] fluoranthene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[g,h,i] perylene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[k] fluoranthene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroethoxy) methane	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroethyl) ether	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroisopropyl) ether	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-ethylhexyl) phthalate	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

J1B5B2

1006082-08 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
			Lionville Laboratory					
Semivolatile Organic Compounds by SW846 8270C								
Butyl Benzyl Phthalate	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Carbazole	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Chrysene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dibenz[a,h]anthracene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dibenzofuran	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Diethyl Phthalate	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dimethyl Phthalate	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Di-n-butyl Phthalate	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Di-n-octyl Phthalate	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Fluoranthene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Fluorene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorobenzene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorobutadiene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorocyclopentadiene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachloroethane	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Indeno[1,2,3-cd]pyrene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Isophorone	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Naphthalene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Nitrobenzene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
N-Nitrosodi-n-propylamine	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
N-Nitrosodiphenylamine	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Pentachlorophenol	1620 U	1620	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Phenanthrene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Phenol	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Pyrene	324 U	324	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 3	**1180** J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 1	**2730** B, J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 2	**288** J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Aldol 2	**63900** A, B, J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Aldol 1	**209** A, B, J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Surrogate: 2-Fluorophenol	*72 %*	*25-121*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: Phenol-d5	*78 %*	*24-113*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: Nitrobenzene-d5	*81 %*	*23-120*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: 2-Fluorobiphenyl	*82 %*	*30-115*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: 2,4,6-Tribromophenol	*61 %*	*19-122*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: p-Terphenyl-d14	*97 %*	*18-137*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

J1B5B3

1006082-09 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Semivolatile Organic Compounds by SW846 8270C								
1,2,4-Trichlorobenzene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,2-Dichlorobenzene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,3-Dichlorobenzene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,4-Dichlorobenzene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4,5-Trichlorophenol	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4,6-Trichlorophenol	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dichlorophenol	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dimethylphenol	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dinitrophenol	1650 U	1650	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dinitrotoluene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,6-Dinitrotoluene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Chloronaphthalene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Chlorophenol	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Methylnaphthalene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Methylphenol	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Nitroaniline	1650 U	1650	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Nitrophenol	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3,3'-Dichlorobenzidine	659 U	659	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3-Nitroaniline	1650 U	1650	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4,6-Dinitro-2-methylphenol	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Bromophenyl Phenyl Ether	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chloro-3-methylphenol	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chloroaniline	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chlorophenyl Phenyl Ether	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3- and/or 4-Methylphenol	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Nitroaniline	1650 U	1650	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Nitrophenol	1650 U	1650	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Acenaphthene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Acenaphthylene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Anthracene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benz[a]anthracene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[a] pyrene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[b] fluoranthene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[g,h,i] perylene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[k] fluoranthene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroethoxy) methane	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroethyl) ether	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroisopropyl) ether	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-ethylhexyl) phthalate	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

J1B5B3

1006082-09 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Semivolatile Organic Compounds by SW846 8270C								
Butyl Benzyl Phthalate	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Carbazole	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Chrysene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dibenz[a,h]anthracene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dibenzofuran	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Diethyl Phthalate	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dimethyl Phthalate	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Di-n-butyl Phthalate	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Di-n-octyl Phthalate	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Fluoranthene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Fluorene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorobenzene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorobutadiene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorocyclopentadiene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachloroethane	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Indeno[1,2,3-cd]pyrene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Isophorone	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Naphthalene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Nitrobenzene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
N-Nitrosodi-n-propylamine	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
N-Nitrosodiphenylamine	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Pentachlorophenol	1650 U	1650	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Phenanthrene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Phenol	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Pyrene	329 U	329	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 1	**4210** B, J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 2	**1400** J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Aldol 3	**198** A, J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Aldol 2	**97200** A, B, J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Aldol 1	**237** A, B, J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Surrogate: 2-Fluorophenol	*76 %*	*25-121*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: Phenol-d5	*87 %*	*24-113*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: Nitrobenzene-d5	*86 %*	*23-120*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: 2-Fluorobiphenyl	*90 %*	*30-115*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: 2,4,6-Tribromophenol	*80 %*	*19-122*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: p-Terphenyl-d14	*100 %*	*18-137*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

J1B5B4

1006082-10 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Semivolatile Organic Compounds by SW846 8270C								
1,2,4-Trichlorobenzene	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,2-Dichlorobenzene	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,3-Dichlorobenzene	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,4-Dichlorobenzene	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4,5-Trichlorophenol	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4,6-Trichlorophenol	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dichlorophenol	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dimethylphenol	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dinitrophenol	1660 U	1660	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dinitrotoluene	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,6-Dinitrotoluene	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Chloronaphthalene	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Chlorophenol	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Methylnaphthalene	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Methylphenol	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Nitroaniline	1660 U	1660	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Nitrophenol	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3,3'-Dichlorobenzidine	664 U	664	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3-Nitroaniline	1660 U	1660	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4,6-Dinitro-2-methylphenol	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Bromophenyl Phenyl Ether	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chloro-3-methylphenol	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chloroaniline	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chlorophenyl Phenyl Ether	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3- and/or 4-Methylphenol	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Nitroaniline	1660 U	1660	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Nitrophenol	1660 U	1660	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Acenaphthene	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Acenaphthylene	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Anthracene	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benz[a]anthracene	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[a] pyrene	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[b] fluoranthene	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[g,h,i] perylene	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[k] fluoranthene	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroethoxy) methane	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroethyl) ether	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroisopropyl) ether	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-ethylhexyl) phthalate	332 U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	**Reported:**
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

J1B5B4

1006082-10 (Soil)

Analyte	Result and Qualifier		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory									
Semivolatile Organic Compounds by SW846 8270C									
Butyl Benzyl Phthalate	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Carbazole	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Chrysene	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dibenz[a,h]anthracene	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dibenzofuran	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Diethyl Phthalate	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dimethyl Phthalate	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Di-n-butyl Phthalate	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Di-n-octyl Phthalate	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Fluoranthene	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Fluorene	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorobenzene	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorobutadiene	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorocyclopentadiene	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachloroethane	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Indeno[1,2,3-cd]pyrene	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Isophorone	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Naphthalene	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Nitrobenzene	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
N-Nitrosodi-n-propylamine	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
N-Nitrosodiphenylamine	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Pentachlorophenol	1660	U	1660	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Phenanthrene	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Phenol	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Pyrene	332	U	332	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 3	**321**	J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 1	**1500**	B, J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 2	**1560**	J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Aldol 2	**469**	A, B, J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Aldol 1	**50600**	A, B, J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Surrogate: 2-Fluorophenol	*74 %*		*25-121*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: Phenol-d5	*77 %*		*24-113*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: Nitrobenzene-d5	*80 %*		*23-120*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: 2-Fluorobiphenyl	*84 %*		*30-115*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: 2,4,6-Tribromophenol	*74 %*		*19-122*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: p-Terphenyl-d14	*91 %*		*18-137*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

J1B5B5

1006082-11 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Semivolatile Organic Compounds by SW846 8270C								
1,2,4-Trichlorobenzene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,2-Dichlorobenzene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,3-Dichlorobenzene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,4-Dichlorobenzene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4,5-Trichlorophenol	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4,6-Trichlorophenol	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dichlorophenol	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dimethylphenol	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dinitrophenol	1710 U	1710	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dinitrotoluene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,6-Dinitrotoluene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Chloronaphthalene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Chlorophenol	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Methylnaphthalene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Methylphenol	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Nitroaniline	1710 U	1710	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Nitrophenol	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3,3'-Dichlorobenzidine	683 U	683	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3-Nitroaniline	1710 U	1710	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4,6-Dinitro-2-methylphenol	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Bromophenyl Phenyl Ether	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chloro-3-methylphenol	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chloroaniline	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chlorophenyl Phenyl Ether	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3- and/or 4-Methylphenol	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Nitroaniline	1710 U	1710	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Nitrophenol	1710 U	1710	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Acenaphthene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Acenaphthylene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Anthracene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benz[a]anthracene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[a] pyrene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[b] fluoranthene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[g,h,i] perylene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[k] fluoranthene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroethoxy) methane	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroethyl) ether	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroisopropyl) ether	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-ethylhexyl) phthalate	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C

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WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-107 Project Number: K2099 Project Manager: Joan Kessner	Reported: 07/08/2010 15:10

J1B5B5

1006082-11 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Semivolatile Organic Compounds by SW846 8270C								
Butyl Benzyl Phthalate	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Carbazole	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Chrysene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dibenz[a,h]anthracene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dibenzofuran	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Diethyl Phthalate	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dimethyl Phthalate	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Di-n-butyl Phthalate	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Di-n-octyl Phthalate	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Fluoranthene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Fluorene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorobenzene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorobutadiene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorocyclopentadiene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachloroethane	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Indeno[1,2,3-cd]pyrene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Isophorone	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Naphthalene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Nitrobenzene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
N-Nitrosodi-n-propylamine	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
N-Nitrosodiphenylamine	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Pentachlorophenol	1710 U	1710	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Phenanthrene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Phenol	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Pyrene	342 U	342	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 3	**209** J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 2	**1300** J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 1	**1390** B, J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Aldol 1	**41500** A, B, J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Alkane 1	**155** J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Surrogate: 2-Fluorophenol	*75 %*	*25-121*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: Phenol-d5	*81 %*	*24-113*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: Nitrobenzene-d5	*81 %*	*23-120*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: 2-Fluorobiphenyl	*85 %*	*30-115*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: 2,4,6-Tribromophenol	*70 %*	*19-122*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: p-Terphenyl-d14	*97 %*	*18-137*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

J1B5B6

1006082-12 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Semivolatile Organic Compounds by SW846 8270C								
1,2,4-Trichlorobenzene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,2-Dichlorobenzene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,3-Dichlorobenzene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,4-Dichlorobenzene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4,5-Trichlorophenol	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4,6-Trichlorophenol	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dichlorophenol	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dimethylphenol	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dinitrophenol	1610 U	1610	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dinitrotoluene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,6-Dinitrotoluene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Chloronaphthalene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Chlorophenol	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Methylnaphthalene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Methylphenol	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Nitroaniline	1610 U	1610	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Nitrophenol	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3,3'-Dichlorobenzidine	646 U	646	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3-Nitroaniline	1610 U	1610	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4,6-Dinitro-2-methylphenol	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Bromophenyl Phenyl Ether	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chloro-3-methylphenol	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chloroaniline	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chlorophenyl Phenyl Ether	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3- and/or 4-Methylphenol	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Nitroaniline	1610 U	1610	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Nitrophenol	1610 U	1610	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Acenaphthene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Acenaphthylene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Anthracene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benz[a]anthracene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[a] pyrene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[b] fluoranthene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[g,h,i] perylene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[k] fluoranthene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroethoxy) methane	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroethyl) ether	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroisopropyl) ether	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-ethylhexyl) phthalate	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

J1B5B6

1006082-12 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Semivolatile Organic Compounds by SW846 8270C								
Butyl Benzyl Phthalate	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Carbazole	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Chrysene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dibenz[a,h]anthracene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dibenzofuran	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Diethyl Phthalate	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dimethyl Phthalate	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Di-n-butyl Phthalate	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Di-n-octyl Phthalate	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Fluoranthene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Fluorene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorobenzene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorobutadiene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorocyclopentadiene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachloroethane	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Indeno[1,2,3-cd]pyrene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Isophorone	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Naphthalene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Nitrobenzene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
N-Nitrosodi-n-propylamine	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
N-Nitrosodiphenylamine	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Pentachlorophenol	1610 U	1610	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Phenanthrene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Phenol	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Pyrene	323 U	323	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 3	**342** J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 2	**3180** J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 1	**2280** B, J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Aldol 2	**442** A, J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Aldol 1	**58400** A, B, J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Surrogate: 2-Fluorophenol	*73 %*	*25-121*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: Phenol-d5	*76 %*	*24-113*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: Nitrobenzene-d5	*80 %*	*23-120*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: 2-Fluorobiphenyl	*85 %*	*30-115*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: 2,4,6-Tribromophenol	*57 %*	*19-122*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: p-Terphenyl-d14	*108 %*	*18-137*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

J1B5B7

1006082-13 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory								
Semivolatile Organic Compounds by SW846 8270C								
1,2,4-Trichlorobenzene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,2-Dichlorobenzene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,3-Dichlorobenzene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
1,4-Dichlorobenzene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4,5-Trichlorophenol	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4,6-Trichlorophenol	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dichlorophenol	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dimethylphenol	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dinitrophenol	1660 U	1660	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,4-Dinitrotoluene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2,6-Dinitrotoluene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Chloronaphthalene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Chlorophenol	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Methylnaphthalene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Methylphenol	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Nitroaniline	1660 U	1660	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
2-Nitrophenol	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3,3'-Dichlorobenzidine	663 U	663	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3-Nitroaniline	1660 U	1660	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4,6-Dinitro-2-methylphenol	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Bromophenyl Phenyl Ether	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chloro-3-methylphenol	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chloroaniline	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Chlorophenyl Phenyl Ether	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
3- and/or 4-Methylphenol	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Nitroaniline	1660 U	1660	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
4-Nitrophenol	1660 U	1660	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Acenaphthene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Acenaphthylene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Anthracene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benz[a]anthracene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[a] pyrene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[b] fluoranthene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[g,h,i] perylene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Benzo[k] fluoranthene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroethoxy) methane	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroethyl) ether	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-chloroisopropyl) ether	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Bis(2-ethylhexyl) phthalate	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C

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WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-107 Project Number: K2099 Project Manager: Joan Kessner	**Reported:** 07/08/2010 15:10

J1B5B7

1006082-13 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
			Lionville Laboratory					
Semivolatile Organic Compounds by SW846 8270C								
Butyl Benzyl Phthalate	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Carbazole	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Chrysene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dibenz[a,h]anthracene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dibenzofuran	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Diethyl Phthalate	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Dimethyl Phthalate	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Di-n-butyl Phthalate	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Di-n-octyl Phthalate	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Fluoranthene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Fluorene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorobenzene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorobutadiene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachlorocyclopentadiene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Hexachloroethane	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Indeno[1,2,3-cd]pyrene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Isophorone	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Naphthalene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Nitrobenzene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
N-Nitrosodi-n-propylamine	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
N-Nitrosodiphenylamine	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Pentachlorophenol	1660 U	1660	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Phenanthrene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Phenol	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Pyrene	331 U	331	ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 3	**1930** J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 2	**169** J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 1	**3940** B, J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Unknown 4	**224** J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
TIC:Aldol 1	**83700** A, B, J		ug/kg dry	1	L006196	06/17/2010	06/23/2010	8270C
Surrogate: 2-Fluorophenol	*74 %*	*25-121*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: Phenol-d5	*73 %*	*24-113*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: Nitrobenzene-d5	*84 %*	*23-120*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: 2-Fluorobiphenyl	*89 %*	*30-115*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: 2,4,6-Tribromophenol	*49 %*	*19-122*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*
Surrogate: p-Terphenyl-d14	*91 %*	*18-137*			*L006196*	*06/17/2010*	*06/23/2010*	*8270C*

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

Semivolatile Organic Compounds by SW846 8270C - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L006196 - SW 3540C									
Blank (L006196-BLK1)			Prepared: 06/17/2010 Analyzed: 06/21/2010						
1,2,4-Trichlorobenzene	330 U	330	ug/kg wet						
1,2-Dichlorobenzene	330 U	330	ug/kg wet						
1,3-Dichlorobenzene	330 U	330	ug/kg wet						
1,4-Dichlorobenzene	330 U	330	ug/kg wet						
2,4,5-Trichlorophenol	330 U	330	ug/kg wet						
2,4,6-Trichlorophenol	330 U	330	ug/kg wet						
2,4-Dichlorophenol	330 U	330	ug/kg wet						
2,4-Dimethylphenol	330 U	330	ug/kg wet						
2,4-Dinitrophenol	1650 U	1650	ug/kg wet						
2,4-Dinitrotoluene	330 U	330	ug/kg wet						
2,6-Dinitrotoluene	330 U	330	ug/kg wet						
2-Chloronaphthalene	330 U	330	ug/kg wet						
2-Chlorophenol	330 U	330	ug/kg wet						
2-Methylnaphthalene	330 U	330	ug/kg wet						
2-Methylphenol	330 U	330	ug/kg wet						
2-Nitroaniline	1650 U	1650	ug/kg wet						
2-Nitrophenol	330 U	330	ug/kg wet						
3,3'-Dichlorobenzidine	660 U	660	ug/kg wet						
3-Nitroaniline	1650 U	1650	ug/kg wet						
4,6-Dinitro-2-methylphenol	330 U	330	ug/kg wet						
4-Bromophenyl Phenyl Ether	330 U	330	ug/kg wet						
4-Chloro-3-methylphenol	330 U	330	ug/kg wet						
4-Chloroaniline	330 U	330	ug/kg wet						
4-Chlorophenyl Phenyl Ether	330 U	330	ug/kg wet						
3- and/or 4-Methylphenol	330 U	330	ug/kg wet						
4-Nitroaniline	1650 U	1650	ug/kg wet						
4-Nitrophenol	1650 U	1650	ug/kg wet						
Acenaphthene	330 U	330	ug/kg wet						
Acenaphthylene	330 U	330	ug/kg wet						
Anthracene	330 U	330	ug/kg wet						
Benz[a]anthracene	330 U	330	ug/kg wet						
Benzo[a] pyrene	330 U	330	ug/kg wet						
Benzo[b] fluoranthene	330 U	330	ug/kg wet						
Benzo[g,h,i] perylene	330 U	330	ug/kg wet						
Benzo[k] fluoranthene	330 U	330	ug/kg wet						
Bis(2-chloroethoxy) methane	330 U	330	ug/kg wet						

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2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

Semivolatile Organic Compounds by SW846 8270C - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L006196 - SW 3540C									
Blank (L006196-BLK1)			Prepared: 06/17/2010 Analyzed: 06/21/2010						
Bis(2-chloroethyl) ether	330 U	330	ug/kg wet						
Bis(2-chloroisopropyl) ether	330 U	330	ug/kg wet						
Bis(2-ethylhexyl) phthalate	330 U	330	ug/kg wet						
Butyl Benzyl Phthalate	330 U	330	ug/kg wet						
Carbazole	330 U	330	ug/kg wet						
Chrysene	330 U	330	ug/kg wet						
Dibenz[a,h]anthracene	330 U	330	ug/kg wet						
Dibenzofuran	330 U	330	ug/kg wet						
Diethyl Phthalate	330 U	330	ug/kg wet						
Dimethyl Phthalate	330 U	330	ug/kg wet						
Di-n-butyl Phthalate	330 U	330	ug/kg wet						
Di-n-octyl Phthalate	330 U	330	ug/kg wet						
Fluoranthene	330 U	330	ug/kg wet						
Fluorene	330 U	330	ug/kg wet						
Hexachlorobenzene	330 U	330	ug/kg wet						
Hexachlorobutadiene	330 U	330	ug/kg wet						
Hexachlorocyclopentadiene	330 U	330	ug/kg wet						
Hexachloroethane	330 U	330	ug/kg wet						
Indeno[1,2,3-cd]pyrene	330 U	330	ug/kg wet						
Isophorone	330 U	330	ug/kg wet						
Naphthalene	330 U	330	ug/kg wet						
Nitrobenzene	330 U	330	ug/kg wet						
N-Nitrosodi-n-propylamine	330 U	330	ug/kg wet						
N-Nitrosodiphenylamine	330 U	330	ug/kg wet						
Pentachlorophenol	1650 U	1650	ug/kg wet						
Phenanthrene	330 U	330	ug/kg wet						
Phenol	330 U	330	ug/kg wet						
Pyrene	330 U	330	ug/kg wet						
Aldol 2	248 A, J		ug/kg wet						
Aldol 1	79500 A, J		ug/kg wet						
Unknown 1	270 J		ug/kg wet						
Trichloro-1-propene	244 J		ug/kg wet						
Surrogate: 2-Fluorophenol	*1530*		*ug/kg wet*	*2500.0*		*61*	*25-121*		
Surrogate: Phenol-d5	*1390*		*ug/kg wet*	*2500.0*		*56*	*24-113*		
Surrogate: Nitrobenzene-d5	*971*		*ug/kg wet*	*1666.7*		*58*	*23-120*		
Surrogate: 2-Fluorobiphenyl	*981*		*ug/kg wet*	*1666.7*		*59*	*30-115*		
Surrogate: 2,4,6-Tribromophenol	*1270*		*ug/kg wet*	*2500.0*		*51*	*19-122*		

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Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

Semivolatile Organic Compounds by SW846 8270C - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L006196 - SW 3540C									
Blank (L006196-BLK1)			Prepared: 06/17/2010 Analyzed: 06/21/2010						
Surrogate: p-Terphenyl-d14	*1010*		*ug/kg wet*	*1666.7*		*61*	*18-137*		
LCS (L006196-BS1)			Prepared: 06/17/2010 Analyzed: 06/21/2010						
1,2,4-Trichlorobenzene	898	330	ug/kg wet	2000.0		45*	60-120		
1,2-Dichlorobenzene	1220	330	ug/kg wet	2000.0		61	50-110		
1,3-Dichlorobenzene	1140	330	ug/kg wet	2000.0		57	50-110		
1,4-Dichlorobenzene	1180	330	ug/kg wet	2000.0		59	50-120		
2,4,5-Trichlorophenol	1100	330	ug/kg wet	2000.0		55	50-110		
2,4,6-Trichlorophenol	1090	330	ug/kg wet	2000.0		54	50-110		
2,4-Dichlorophenol	958	330	ug/kg wet	2000.0		48	45-110		
2,4-Dimethylphenol	898	330	ug/kg wet	2000.0		45*	50-120		
2,4-Dinitrophenol	252 J	1650	ug/kg wet	2000.0		13*	20-120		
2,4-Dinitrotoluene	1320	330	ug/kg wet	2000.0		66	60-130		
2,6-Dinitrotoluene	1290	330	ug/kg wet	2000.0		64	50-140		
2-Chloronaphthalene	1190	330	ug/kg wet	2000.0		60	50-130		
2-Chlorophenol	1260	330	ug/kg wet	2000.0		63	50-130		
2-Methylnaphthalene	1000	330	ug/kg wet	2000.0		50*	60-100		
2-Methylphenol	1130	330	ug/kg wet	2000.0		57*	60-120		
2-Nitroaniline	1270 J	1650	ug/kg wet	2000.0		64	60-130		
2-Nitrophenol	900	330	ug/kg wet	2000.0		45*	50-130		
3,3'-Dichlorobenzidine	937	660	ug/kg wet	2000.0		47	20-140		
3-Nitroaniline	1350 J	1650	ug/kg wet	2000.0		68	40-130		
4,6-Dinitro-2-methylphenol	373	330	ug/kg wet	2000.0		19*	40-140		
4-Bromophenyl Phenyl Ether	1180	330	ug/kg wet	2000.0		59	50-120		
4-Chloro-3-methylphenol	998	330	ug/kg wet	2000.0		50*	60-130		
4-Chloroaniline	810	330	ug/kg wet	2000.0		40	20-120		
4-Chlorophenyl Phenyl Ether	1260	330	ug/kg wet	2000.0		63	50-120		
3- and/or 4-Methylphenol	1130	330	ug/kg wet	2000.0		56*	60-130		
4-Nitroaniline	1390 J	1650	ug/kg wet	2000.0		69	50-120		
4-Nitrophenol	1070 J	1650	ug/kg wet	2000.0		54	40-140		
Acenaphthene	1200	330	ug/kg wet	2000.0		60	60-130		
Acenaphthylene	1250	330	ug/kg wet	2000.0		62	60-110		
Anthracene	1260	330	ug/kg wet	2000.0		63	60-130		
Benz[a]anthracene	1370	330	ug/kg wet	2000.0		68	50-130		
Benzo[a] pyrene	1260	330	ug/kg wet	2000.0		63	50-130		
Benzo[b] fluoranthene	1260	330	ug/kg wet	2000.0		63	60-130		
Benzo[g,h,i] perylene	1290	330	ug/kg wet	2000.0		64	60-140		

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WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-107 Project Number: K2099 Project Manager: Joan Kessner	**Reported:** 07/08/2010 15:10

Semivolatile Organic Compounds by SW846 8270C - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L006196 - SW 3540C									
LCS (L006196-BS1)			Prepared: 06/17/2010 Analyzed: 06/21/2010						
Benzo[k] fluoranthene	1240	330	ug/kg wet	2000.0		62	50-130		
Bis(2-chloroethoxy) methane	885	330	ug/kg wet	2000.0		44	40-140		
Bis(2-chloroethyl) ether	1110	330	ug/kg wet	2000.0		56	50-130		
Bis(2-chloroisopropyl) ether	1060	330	ug/kg wet	2000.0		53	50-120		
Bis(2-ethylhexyl) phthalate	1330	330	ug/kg wet	2000.0		66	50-150		
Butyl Benzyl Phthalate	1470	330	ug/kg wet	2000.0		73	50-150		
Carbazole	1250	330	ug/kg wet	2000.0		62	60-120		
Chrysene	1210	330	ug/kg wet	2000.0		60	50-130		
Dibenz[a,h]anthracene	1260	330	ug/kg wet	2000.0		63	50-140		
Dibenzofuran	1260	330	ug/kg wet	2000.0		63	60-130		
Diethyl Phthalate	1360	330	ug/kg wet	2000.0		68	50-130		
Dimethyl Phthalate	1310	330	ug/kg wet	2000.0		65	50-140		
Di-n-butyl Phthalate	1350	330	ug/kg wet	2000.0		68	40-150		
Di-n-octyl Phthalate	1400	330	ug/kg wet	2000.0		70	50-150		
Fluoranthene	1340	330	ug/kg wet	2000.0		67	50-130		
Fluorene	1290	330	ug/kg wet	2000.0		64	60-130		
Hexachlorobenzene	1330	330	ug/kg wet	2000.0		66	60-130		
Hexachlorobutadiene	1080	330	ug/kg wet	2000.0		54	40-130		
Hexachlorocyclopentadiene	909	330	ug/kg wet	2000.0		45	20-100		
Hexachloroethane	1180	330	ug/kg wet	2000.0		59	50-110		
Indeno[1,2,3-cd]pyrene	1240	330	ug/kg wet	2000.0		62	60-140		
Isophorone	841	330	ug/kg wet	2000.0		42*	60-120		
Naphthalene	1000	330	ug/kg wet	2000.0		50	40-130		
Nitrobenzene	934	330	ug/kg wet	2000.0		47*	50-110		
N-Nitrosodi-n-propylamine	1260	330	ug/kg wet	2000.0		63	50-130		
N-Nitrosodiphenylamine	1240	330	ug/kg wet	2000.0		62	50-130		
Pentachlorophenol	834 J	1650	ug/kg wet	2000.0		42	30-130		
Phenanthrene	1290	330	ug/kg wet	2000.0		65	60-130		
Phenol	1230	330	ug/kg wet	2000.0		61	50-130		
Pyrene	1280	330	ug/kg wet	2000.0		64	50-140		
Surrogate: 2-Fluorophenol	*1650*		*ug/kg wet*	*2500.0*		*66*	*25-121*		
Surrogate: Phenol-d5	*1510*		*ug/kg wet*	*2500.0*		*61*	*24-113*		
Surrogate: Nitrobenzene-d5	*835*		*ug/kg wet*	*1666.7*		*50*	*23-120*		
Surrogate: 2-Fluorobiphenyl	*1020*		*ug/kg wet*	*1666.7*		*61*	*30-115*		
Surrogate: 2,4,6-Tribromophenol	*1140*		*ug/kg wet*	*2500.0*		*46*	*19-122*		
Surrogate: p-Terphenyl-d14	*1030*		*ug/kg wet*	*1666.7*		*62*	*18-137*		

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

Semivolatile Organic Compounds by SW846 8270C - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L006196 - SW 3540C									
Matrix Spike (L006196-MS1)	**Source: 1006082-01**	Prepared: 06/17/2010 Analyzed: 06/21/2010							
1,2,4-Trichlorobenzene	816	336	ug/kg dry	2037.5	340 U	40*	60-120		
1,2-Dichlorobenzene	1040	336	ug/kg dry	2037.5	340 U	51	50-110		
1,3-Dichlorobenzene	989	336	ug/kg dry	2037.5	340 U	49*	50-110		
1,4-Dichlorobenzene	1000	336	ug/kg dry	2037.5	340 U	49*	50-120		
2,4,5-Trichlorophenol	1200	336	ug/kg dry	2037.5	340 U	59	50-110		
2,4,6-Trichlorophenol	1130	336	ug/kg dry	2037.5	340 U	56	50-110		
2,4-Dichlorophenol	943	336	ug/kg dry	2037.5	340 U	46	45-110		
2,4-Dimethylphenol	838	336	ug/kg dry	2037.5	340 U	41*	50-120		
2,4-Dinitrophenol	902 J	1680	ug/kg dry	2037.5	1700 U	44	20-120		
2,4-Dinitrotoluene	1270	336	ug/kg dry	2037.5	340 U	62	60-130		
2,6-Dinitrotoluene	1220	336	ug/kg dry	2037.5	340 U	60	50-140		
2-Chloronaphthalene	1120	336	ug/kg dry	2037.5	340 U	55	50-130		
2-Chlorophenol	1080	336	ug/kg dry	2037.5	340 U	53	50-130		
2-Methylnaphthalene	939	336	ug/kg dry	2037.5	340 U	46*	60-100		
2-Methylphenol	1030	336	ug/kg dry	2037.5	340 U	50*	60-120		
2-Nitroaniline	1250 J	1680	ug/kg dry	2037.5	1700 U	61	60-130		
2-Nitrophenol	843	336	ug/kg dry	2037.5	340 U	41*	50-130		
3,3'-Dichlorobenzidine	842	672	ug/kg dry	2037.5	680 U	41	20-140		
3-Nitroaniline	1220 J	1680	ug/kg dry	2037.5	1700 U	60	40-130		
4,6-Dinitro-2-methylphenol	1020	336	ug/kg dry	2037.5	340 U	50	40-140		
4-Bromophenyl Phenyl Ether	1130	336	ug/kg dry	2037.5	340 U	56	50-120		
4-Chloro-3-methylphenol	965	336	ug/kg dry	2037.5	340 U	47*	60-130		
4-Chloroaniline	726	336	ug/kg dry	2037.5	340 U	36	20-120		
4-Chlorophenyl Phenyl Ether	1190	336	ug/kg dry	2037.5	340 U	58	50-120		
3- and/or 4-Methylphenol	1040	336	ug/kg dry	2037.5	340 U	51*	60-130		
4-Nitroaniline	1190 J	1680	ug/kg dry	2037.5	1700 U	58	50-120		
4-Nitrophenol	1000 J	1680	ug/kg dry	2037.5	1700 U	49	40-140		
Acenaphthene	1160	336	ug/kg dry	2037.5	340 U	57*	60-130		
Acenaphthylene	1170	336	ug/kg dry	2037.5	340 U	57*	60-110		
Anthracene	1190	336	ug/kg dry	2037.5	340 U	58*	60-130		
Benz[a]anthracene	1340	336	ug/kg dry	2037.5	340 U	66	50-130		
Benzo[a] pyrene	1220	336	ug/kg dry	2037.5	340 U	60	50-130		
Benzo[b] fluoranthene	1270	336	ug/kg dry	2037.5	340 U	62	60-130		
Benzo[g,h,i] perylene	1200	336	ug/kg dry	2037.5	340 U	59*	60-140		
Benzo[k] fluoranthene	1230	336	ug/kg dry	2037.5	340 U	60	50-130		
Bis(2-chloroethoxy) methane	834	336	ug/kg dry	2037.5	340 U	41	40-140		

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WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

Semivolatile Organic Compounds by SW846 8270C - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L006196 - SW 3540C									
Matrix Spike (L006196-MS1)	**Source: 1006082-01**		Prepared: 06/17/2010 Analyzed: 06/21/2010						
Bis(2-chloroethyl) ether	975	336	ug/kg dry	2037.5	340 U	48*	50-130		
Bis(2-chloroisopropyl) ether	922	336	ug/kg dry	2037.5	340 U	45*	50-120		
Bis(2-ethylhexyl) phthalate	1290	336	ug/kg dry	2037.5	340 U	64	50-150		
Butyl Benzyl Phthalate	1390	336	ug/kg dry	2037.5	340 U	68	50-150		
Carbazole	1220	336	ug/kg dry	2037.5	340 U	60	60-120		
Chrysene	1170	336	ug/kg dry	2037.5	340 U	57	50-130		
Dibenz[a,h]anthracene	1200	336	ug/kg dry	2037.5	340 U	59	50-140		
Dibenzofuran	1210	336	ug/kg dry	2037.5	340 U	60	60-130		
Diethyl Phthalate	1310	336	ug/kg dry	2037.5	340 U	65	50-130		
Dimethyl Phthalate	1270	336	ug/kg dry	2037.5	340 U	63	50-140		
Di-n-butyl Phthalate	1340	336	ug/kg dry	2037.5	340 U	66	40-150		
Di-n-octyl Phthalate	1430	336	ug/kg dry	2037.5	340 U	70	50-150		
Fluoranthene	1330	336	ug/kg dry	2037.5	340 U	65	50-130		
Fluorene	1240	336	ug/kg dry	2037.5	340 U	61	60-130		
Hexachlorobenzene	1210	336	ug/kg dry	2037.5	340 U	59*	60-130		
Hexachlorobutadiene	993	336	ug/kg dry	2037.5	340 U	49	40-130		
Hexachlorocyclopentadiene	523	336	ug/kg dry	2037.5	340 U	26	20-100		
Hexachloroethane	982	336	ug/kg dry	2037.5	340 U	48*	50-110		
Indeno[1,2,3-cd]pyrene	1200	336	ug/kg dry	2037.5	340 U	59*	60-140		
Isophorone	830	336	ug/kg dry	2037.5	340 U	41*	60-120		
Naphthalene	924	336	ug/kg dry	2037.5	340 U	45	40-130		
Nitrobenzene	843	336	ug/kg dry	2037.5	340 U	41*	50-110		
N-Nitrosodi-n-propylamine	1060	336	ug/kg dry	2037.5	340 U	52	50-130		
N-Nitrosodiphenylamine	1170	336	ug/kg dry	2037.5	340 U	58	50-130		
Pentachlorophenol	993 J	1680	ug/kg dry	2037.5	1700 U	49	30-130		
Phenanthrene	1260	336	ug/kg dry	2037.5	340 U	62	60-130		
Phenol	1090	336	ug/kg dry	2037.5	340 U	54	50-130		
Pyrene	1240	336	ug/kg dry	2037.5	340 U	61	50-140		
Surrogate: 2-Fluorophenol	*1260*		*ug/kg dry*	*2546.8*		*49*	*25-121*		
Surrogate: Phenol-d5	*1220*		*ug/kg dry*	*2546.8*		*48*	*24-113*		
Surrogate: Nitrobenzene-d5	*693*		*ug/kg dry*	*1697.9*		*41*	*23-120*		
Surrogate: 2-Fluorobiphenyl	*872*		*ug/kg dry*	*1697.9*		*51*	*30-115*		
Surrogate: 2,4,6-Tribromophenol	*1320*		*ug/kg dry*	*2546.8*		*52*	*19-122*		
Surrogate: p-Terphenyl-d14	*923*		*ug/kg dry*	*1697.9*		*54*	*18-137*		

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

Semivolatile Organic Compounds by SW846 8270C - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L006196 - SW 3540C									
Matrix Spike Dup (L006196-MSD1)	**Source: 1006082-01**	Prepared: 06/17/2010 Analyzed: 06/21/2010							
1,2,4-Trichlorobenzene	979	338	ug/kg dry	2048.2	340 U	48*	60-120	18	40
1,2-Dichlorobenzene	1250	338	ug/kg dry	2048.2	340 U	61	50-110	17	40
1,3-Dichlorobenzene	1160	338	ug/kg dry	2048.2	340 U	57	50-110	16	40
1,4-Dichlorobenzene	1210	338	ug/kg dry	2048.2	340 U	59	50-120	18	40
2,4,5-Trichlorophenol	1400	338	ug/kg dry	2048.2	340 U	68	50-110	15	40
2,4,6-Trichlorophenol	1200	338	ug/kg dry	2048.2	340 U	59	50-110	6	40
2,4-Dichlorophenol	1060	338	ug/kg dry	2048.2	340 U	52	45-110	11	40
2,4-Dimethylphenol	991	338	ug/kg dry	2048.2	340 U	48*	50-120	16	40
2,4-Dinitrophenol	1280 J	1690	ug/kg dry	2048.2	1700 U	63	20-120	34	40
2,4-Dinitrotoluene	1390	338	ug/kg dry	2048.2	340 U	68	60-130	8	40
2,6-Dinitrotoluene	1370	338	ug/kg dry	2048.2	340 U	67	50-140	11	40
2-Chloronaphthalene	1270	338	ug/kg dry	2048.2	340 U	62	50-130	12	40
2-Chlorophenol	1310	338	ug/kg dry	2048.2	340 U	64	50-130	19	40
2-Methylnaphthalene	1080	338	ug/kg dry	2048.2	340 U	53*	60-100	14	40
2-Methylphenol	1320	338	ug/kg dry	2048.2	340 U	64	60-120	24	40
2-Nitroaniline	1400 J	1690	ug/kg dry	2048.2	1700 U	68	60-130	11	40
2-Nitrophenol	1010	338	ug/kg dry	2048.2	340 U	49*	50-130	17	40
3,3'-Dichlorobenzidine	836	676	ug/kg dry	2048.2	680 U	41	20-140	1	40
3-Nitroaniline	1220 J	1690	ug/kg dry	2048.2	1700 U	60	40-130	0.1	40
4,6-Dinitro-2-methylphenol	1430	338	ug/kg dry	2048.2	340 U	70	40-140	33	40
4-Bromophenyl Phenyl Ether	1280	338	ug/kg dry	2048.2	340 U	62	50-120	11	40
4-Chloro-3-methylphenol	1150	338	ug/kg dry	2048.2	340 U	56*	60-130	17	40
4-Chloroaniline	667	338	ug/kg dry	2048.2	340 U	33	20-120	9	40
4-Chlorophenyl Phenyl Ether	1320	338	ug/kg dry	2048.2	340 U	64	50-120	10	40
3- and/or 4-Methylphenol	1270	338	ug/kg dry	2048.2	340 U	62	60-130	19	40
4-Nitroaniline	1460 J	1690	ug/kg dry	2048.2	1700 U	71	50-120	20	40
4-Nitrophenol	1320 J	1690	ug/kg dry	2048.2	1700 U	64	40-140	26	40
Acenaphthene	1300	338	ug/kg dry	2048.2	340 U	63	60-130	10	40
Acenaphthylene	1320	338	ug/kg dry	2048.2	340 U	65	60-110	12	40
Anthracene	1430	338	ug/kg dry	2048.2	340 U	70	60-130	17	40
Benz[a]anthracene	1470	338	ug/kg dry	2048.2	340 U	72	50-130	9	40
Benzo[a] pyrene	1340	338	ug/kg dry	2048.2	340 U	65	50-130	9	20
Benzo[b] fluoranthene	1300	338	ug/kg dry	2048.2	340 U	63	60-130	2	20
Benzo[g,h,i] perylene	1390	338	ug/kg dry	2048.2	340 U	68	60-140	14	20
Benzo[k] fluoranthene	1360	338	ug/kg dry	2048.2	340 U	66	50-130	10	20
Bis(2-chloroethoxy) methane	1010	338	ug/kg dry	2048.2	340 U	49	40-140	19	40

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-107	
2620 Fermi Avenue	Project Number: K2099	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	07/08/2010 15:10

Semivolatile Organic Compounds by SW846 8270C - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L006196 - SW 3540C									
Matrix Spike Dup (L006196-MSD1)	**Source: 1006082-01**	Prepared: 06/17/2010 Analyzed: 06/21/2010							
Bis(2-chloroethyl) ether	1210	338	ug/kg dry	2048.2	340 U	59	50-130	21	40
Bis(2-chloroisopropyl) ether	1150	338	ug/kg dry	2048.2	340 U	56	50-120	21	40
Bis(2-ethylhexyl) phthalate	1400	338	ug/kg dry	2048.2	340 U	68	50-150	7	40
Butyl Benzyl Phthalate	1520	338	ug/kg dry	2048.2	340 U	74	50-150	8	40
Carbazole	1440	338	ug/kg dry	2048.2	340 U	70	60-120	16	40
Chrysene	1310	338	ug/kg dry	2048.2	340 U	64	50-130	11	40
Dibenz[a,h]anthracene	1390	338	ug/kg dry	2048.2	340 U	68	50-140	14	40
Dibenzofuran	1350	338	ug/kg dry	2048.2	340 U	66	60-130	10	40
Diethyl Phthalate	1430	338	ug/kg dry	2048.2	340 U	70	50-130	8	40
Dimethyl Phthalate	1400	338	ug/kg dry	2048.2	340 U	68	50-140	9	40
Di-n-butyl Phthalate	1460	338	ug/kg dry	2048.2	340 U	72	40-150	8	40
Di-n-octyl Phthalate	1450	338	ug/kg dry	2048.2	340 U	71	50-150	0.9	40
Fluoranthene	1470	338	ug/kg dry	2048.2	340 U	72	50-130	10	40
Fluorene	1350	338	ug/kg dry	2048.2	340 U	66	60-130	8	40
Hexachlorobenzene	1370	338	ug/kg dry	2048.2	340 U	67	60-130	12	40
Hexachlorobutadiene	1140	338	ug/kg dry	2048.2	340 U	55	40-130	13	40
Hexachlorocyclopentadiene	713	338	ug/kg dry	2048.2	340 U	35	20-100	30	40
Hexachloroethane	1170	338	ug/kg dry	2048.2	340 U	57	50-110	17	40
Indeno[1,2,3-cd]pyrene	1390	338	ug/kg dry	2048.2	340 U	68	60-140	14	40
Isophorone	947	338	ug/kg dry	2048.2	340 U	46*	60-120	13	40
Naphthalene	1080	338	ug/kg dry	2048.2	340 U	53	40-130	15	40
Nitrobenzene	998	338	ug/kg dry	2048.2	340 U	49*	50-110	16	40
N-Nitrosodi-n-propylamine	1380	338	ug/kg dry	2048.2	340 U	67	50-130	26	40
N-Nitrosodiphenylamine	1350	338	ug/kg dry	2048.2	340 U	66	50-130	14	40
Pentachlorophenol	1340 J	1690	ug/kg dry	2048.2	1700 U	66	30-130	29	40
Phenanthrene	1370	338	ug/kg dry	2048.2	340 U	67	60-130	8	40
Phenol	1340	338	ug/kg dry	2048.2	340 U	65	50-130	20	40
Pyrene	1300	338	ug/kg dry	2048.2	340 U	64	50-140	5	40
Surrogate: 2-Fluorophenol	*1680*		*ug/kg dry*	*2560.3*		*66*	*25-121*		
Surrogate: Phenol-d5	*1610*		*ug/kg dry*	*2560.3*		*63*	*24-113*		
Surrogate: Nitrobenzene-d5	*853*		*ug/kg dry*	*1706.8*		*50*	*23-120*		
Surrogate: 2-Fluorobiphenyl	*1040*		*ug/kg dry*	*1706.8*		*61*	*30-115*		
Surrogate: 2,4,6-Tribromophenol	*1520*		*ug/kg dry*	*2560.3*		*59*	*19-122*		
Surrogate: p-Terphenyl-d14	*1020*		*ug/kg dry*	*1706.8*		*60*	*18-137*		

PREPARATION BENCH SHEET

L006196

Lionville Laboratory

Printed: 7/7/2010 2:47:30PM

Matrix: Solid **Prepared using: SVOCGCMS - SW 3540C** **Surrogate used: 1001157**

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Client	Extraction Comments
1006082-01	8270C TCL SVOC	06/17/2010 12:23	30.2	1				500	WC-Hanford, Inc.	
1006082-02	8270C TCL SVOC	06/17/2010 12:23	30	1				500	WC-Hanford, Inc.	
1006082-03	8270C TCL SVOC	06/17/2010 12:23	30.57	1				500	WC-Hanford, Inc.	
1006082-04	8270C TCL SVOC	06/17/2010 12:23	30.44	1				500	WC-Hanford, Inc.	
1006082-05	8270C TCL SVOC	06/17/2010 12:23	30.36	1				500	WC-Hanford, Inc.	
1006082-06	8270C TCL SVOC	06/17/2010 12:23	31.72	1				500	WC-Hanford, Inc.	
1006082-07	8270C TCL SVOC	06/17/2010 12:23	30.44	1				500	WC-Hanford, Inc.	
1006082-08	8270C TCL SVOC	06/17/2010 12:23	30.87	1				500	WC-Hanford, Inc.	
1006082-09	8270C TCL SVOC	06/17/2010 12:23	30.22	1				500	WC-Hanford, Inc.	
1006082-10	8270C TCL SVOC	06/17/2010 12:23	30.35	1				500	WC-Hanford, Inc.	
1006082-11	8270C TCL SVOC	06/17/2010 12:23	30.09	1				500	WC-Hanford, Inc.	
1006082-12	8270C TCL SVOC	06/17/2010 12:23	30.79	1				500	WC-Hanford, Inc.	
1006082-13	8270C TCL SVOC	06/17/2010 12:23	30.2	1				500	WC-Hanford, Inc.	
L006196-BLK1	QC	06/17/2010 12:23	30	1				500		1006082
L006196-BS1	QC	06/17/2010 12:23	30	1	1000933		600	500		1006082
L006196-MS1	QC	06/17/2010 12:23	30.54	1	1000933	1006082-01	600	500		1006082-1
L006196-MSD1	QC	06/17/2010 12:23	30.38	1	1000933	1006082-01	600	500		1006082-1

Added source batch MS1/MSD1 BGC 7/7/10

Extracts Relinquished By Date

Extracts Received By Date

76

PREPARATION BENCH SHEET

L006196

Lionville Laboratory

Printed: 6/21/2010 4:16:17AM

Matrix: Solid **Prepared using: Extraction - SW 3540/3550** **Surrogate used: 1001157**

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Client	Extraction Comments
1006082-01	8270C TCL SVOC	06/17/2010 12:23	30.2	1				500	WC-Hanford, Inc.	
1006082-02	8270C TCL SVOC	06/17/2010 12:23	30	1				500	WC-Hanford, Inc.	
1006082-03	8270C TCL SVOC	06/17/2010 12:23	30.57	1				500	WC-Hanford, Inc.	
1006082-04	8270C TCL SVOC	06/17/2010 12:23	30.44	1				500	WC-Hanford, Inc.	
1006082-05	8270C TCL SVOC	06/17/2010 12:23	30.36	1				500	WC-Hanford, Inc.	
1006082-06	8270C TCL SVOC	06/17/2010 12:23	31.72	1				500	WC-Hanford, Inc.	
1006082-07	8270C TCL SVOC	06/17/2010 12:23	30.44	1				500	WC-Hanford, Inc.	
1006082-08	8270C TCL SVOC	06/17/2010 12:23	30.87	1				500	WC-Hanford, Inc.	
1006082-09	8270C TCL SVOC	06/17/2010 12:23	30.22	1				500	WC-Hanford, Inc.	
1006082-10	8270C TCL SVOC	06/17/2010 12:23	30.35	1				500	WC-Hanford, Inc.	
1006082-11	8270C TCL SVOC	06/17/2010 12:23	30.09	1				500	WC-Hanford, Inc.	
1006082-12	8270C TCL SVOC	06/17/2010 12:23	30.79	1				500	WC-Hanford, Inc.	
1006082-13	8270C TCL SVOC	06/17/2010 12:23	30.2	1				500	WC-Hanford, Inc.	
L006196-BLK1	QC	06/17/2010 12:23	30	1				500		1006082
L006196-BS1	QC	06/17/2010 12:23	30	1	1000933		600	500		1006082
L006196-MS1	QC	06/17/2010 12:23	30.54	1	1000933		600	500		1006082-1
L006196-MSD1	QC	06/17/2010 12:23	30.38	1	1000933		600	500		1006082-1

Extracts Relinquished By — Date: 6/21/10 0415

Extracts Received By — Date: 6/21/10 1000

Lionville Laboratory Use Only: 1006 082

Custody Transfer Record/Lab Work Request

Page 1 of 2

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

LVLI Lionville Laboratory Inc.

Client: WCHANFORD SAF#-RC-107

Est. Final Proj. Sampling Date:

Project#:

Project Contact/Phone#:

Lionville Laboratory Project Manager: O. JOHNSON

QC: SW Del: SW TAT: 21 Days

Date Rec'd: 6/17/10 Date Due: 7-8-10

	A	B	C		D	E		F				G			
Refrigerator #	VOA	2	2		2	2		2				2			
#/Type Container (~~Liquid~~ / Solid)	1AG	1AG	1AG		1AG	1AG		1				1			
Volume	60	120	60		120	120		125				125			
Preservatives	—	—	—		—	—		—				—			
ANALYSES REQUESTED →	ORGANIC: VOA	BNA	~~Pest~~/PCB	Herb	PAHs	Pest		INORG: Metal	CN	Anions	CrVI	NH3			

MATRIX CODES:	
S-	Soil
SE-	Sediment
SO-	Solid
SL-	Sludge
W-	Water
O-	Oil
A-	Air
DS-	Drum Solids
DL-	Drum Liquids
L-	EP/TCLP Leachate
WI-	Wipe
X-	Other
F-	Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	VOA, TCL	BNA, TCL	PCB		8310	Pest		metals		Anions	CrVI	NH3
01	TIB 595			Soil	6/15/10	1105	X	X	X		X	X		X		X	X	X
02	96					1125	X	X	X		X	X		X		X	X	X
03	97					1145	X	X	X		X	X		X		X	X	X
04	98					1140	X	X	X		X	X		X		X	X	X
05	99					1245	X	X	X		X	X		X		X	X	X
06	B0					1305	X	X	X		X	X		X		X	X	X
07	B1					1325	X	X	X		X	X		X		X	X	X
08	B2					1320	X	X	X		X	X		X		X	X	X
09	B3					1330	X	X	X		X	X		X		X	X	X
10	B4					1340	X	X	X		X	X		X		X	X	X

Special Instructions: MATRIX QC
Non Rad
JD.

METHE = HS2 + B, Mo, Si (NO TL)

Special Instructions:
1.
2.
3.
4.
5.
6.

Relinquished by	Received by	Date	Time
[illegible]	[illegible]	6/17/10	1020

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time

Lionville Laboratory Use Only

1006082

Custody Transfer Record/Lab Work Request

Page 2 of 2

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

LVLI Lionville Laboratory Inc.

Client: WC Hanford SAF# RC-107

Est. Final Proj. Sampling Date: See PO

Project#:

Project Contact/Phone#:

Lionville Laboratory Project Manager: O. JOHNSON

QC: SW Del: SHL TAT: 21 Days

Date Rec'd: 6-17-10 Date Due: 7-8-10

Refrigerator #		10A	2	2		2	2		2			1	2			
#/Type Container	~~Liquid~~ / Solid	1AG	1AG	1AG		1AG	1AG		1			1	1			
Volume		60	120	60		120	120		125			1	125			
Preservatives												1				
ANALYSES REQUESTED →		ORGANIC							INORG							
		VOA	BNA	~~Pesticide~~ PCB	~~Herb~~	PAHs	PEST		Metal Hg ~~CN~~		IC Anions	CR+6	NO2 NO3			

MATRIX CODES:	Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	VOA	BNA	PCB		PAHs	PEST		Metal	Hg	IC Anions	CR+6	NO2 NO3			
								Lionville Laboratory Use Only														
S- Soil SE- Sediment SO- Solid SL- Sludge W- Water O- Oil A- Air DS- Drum Solids DL- Drum Liquids L- EP/TCLP Leachate WI- Wipe X- Other F- Fish	11	TIB5B5			Soil	6-15-10	1355	X	X	X		X	X		X		X	X	X			
	12	B6					1400	X	X	X		X	X		X		X	X	X			
	13	B7					1145	X	X	X		X	X		X		X	X	X			
	14	D3					0845	X	VH 6/17/10													

Special Instructions:

Special Instructions:

1.
2.
3.
4.
5.
6.

Relinquished by	Received by	Date	Time
Fed Ex	V. Nuwanty	6/17/10	1020

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-035	Page 1 of 3

Collector: J. Sellers	Company Contact: Don Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Drain Field Excavation Area		SAF No.: RC-107
Ice Chest No.: WCH-08-034	Field Logbook No.: EL 1627-4	COA: 0607H32000	Method of Shipment: Fed Ex
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: A 100 220		Bill of Lading/Air Bill No.: See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C		
Type of Container	G/P	G/P	G/P	G/P	aG	aG	aG	aG	aG		
No. of Container(s)	1	0	0	1	1	1	1	1	1		
Volume	125mL	60mL	60mL	125mL	60mL	120mL	60mL	120mL	120mL		
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	NO2/NO3 - 353.2	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081		
Sample No.	Matrix *	Sample Date	Sample Time								
J1B595	SOIL	6-15-10	1105	X	X	X	X	X	X	X	X	X	X	
J1B596	SOIL	6-15-10	1125	X	X	X	X	X	X	X	X	X	X	
J1B597	SOIL	6-15-10	1145	X	X	X	X	X	X	X	X	X	X	
J1B598	SOIL	6-15-10	1140	X	X	X	X	X	X	X	X	X	X	
J1B599	SOIL	6-15-10	1245	X	X	X	X	X	X	X	X	X	X	

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J. Sellers Josh Sellers	6-15-10 1440	Sterling Howell	6-15-10 1440
Sterling Howell	6-15-10 1645	Daniel Hernandez	6-15-10 / 1645
Daniel Hernandez WCH	6-16-10 / 1000	FED EX	
FED EX	6-17-10 1020	VICTOR HERNANDEZ	6-17-10 1020

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)
(2) IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}

REVIEWED BY JEB
DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-035	Page 2 of 3

Collector J. Sellers	Company Contact Don Woolery	Telephone No. 509-431-0448	Project Coordinator KESSNER, JH	Price Code 8L	Data Turnaround 21 Days
Project Designation 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location 1607-H-3 Drain Field Excavation Area		SAF No. RC-107		
Ice Chest No. WCH-08-034	Field Logbook No. EL 1627-4	COA 0607H32000	Method of Shipment Fed Ex		
Shipped To EBERLINE SERVICES / LIONVILLE	Offsite Property No. A 100220		Bill of Lading/Air Bill No. See OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	
Type of Container	G/P	G/P	G/P	G/P	aG	aG	aG	aG	aG	
No. of Container(s)	1	0	0	1	1	1	1	1	1	
Volume	125mL	60mL	60mL	125mL	60mL	120mL	60mL	120mL	120mL	
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	NO2/NO3 - 353.2	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081	

Sample No.	Matrix *	Sample Date	Sample Time										
J1B5B0	SOIL	6-15-10	1305	X	X	X	X	X	X	X	X	X	
J1B5B1	SOIL	6-15-10	1325	X	X	X	X	X	X	X	X	X	
J1B5B2	SOIL	6-15-10	1320	X	X	X	X	X	X	X	X	X	
J1B5B3	SOIL	6-15-10	1330	X	X	X	X	X	X	X	X	X	
J1B5B4	SOIL	6-15-10	1340	X	X	X	X	X	X	X	X	X	

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J. Sellers Josh Sellers	6-15-10 1440	Starling Howell	6-15-10 1440
Starling Howell	6-15-10 1645	Daniel Herrera	6-15-10/1645
Daniel Herrera WCH	6-16-10/1000	FED EX	
	6-17-10 1020	Victoria Wiper	6-17-10 1020
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)
(2) IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}

REVIEWED BY SEB DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-035	Page 3 of 3

Collector: J. Sellers	Company Contact: Don Woolery Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH	Price Code: 8L Data Turnaround: 21 Days
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Drain Field Excavation Area	SAF No.: RC-107	
Ice Chest No.: WCH-08-034	Field Logbook No.: EL 1627-4 COA: 0607H32000	Method of Shipment: Fed Ex	
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: A100220	Bill of Lading/Air Bill No.: See OSPC	

POSSIBLE SAMPLE ~~HAZARDS/REMARKS~~

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	
Type of Container	G/P	G/P	G/P	G/P	aG	aG	aG	aG	aG	
No. of Container(s)	1	0	0	1	1	1	1	1	1	
Volume	125mL	60mL	60mL	125mL	60mL	120mL	60mL	120mL	120mL	
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	NO2/NO3 - 353.2	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081	

Sample No.	Matrix *	Sample Date	Sample Time										
J1B5B5	SOIL	6-15-10	1355	X	X	X	X	X	X	X	X	X	
J1B5B6	SOIL	6-15-10	1400	X	X	X	X	X	X	X	X	X	
J1B5B7	SOIL	6-15-10	1145	X	X	X	X	X	X	X	X	X	

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J. Sellers / Josh Sellers	6-15-10 1440	Sterling Howell	6-15-10 1440
Sterling Howell	6-15-10 1645	Daniel Herrera	6-15-10 / 1645
Daniel Herrera	WCH 6-16-10 / 1000	FED EX	
FED EX	6-17-10 1020	VICTOR HERNANDEZ	6/17/10 1020

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)
(2) IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}

REVIEWED BY JEB
DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wt=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-037	Page 1 of 1

Collector: J. Sellers	Company Contact: Don Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 1607-H-3 Trip Blanks		SAF No.: RC-107
Ice Chest No.: WCH-08-034	Field Logbook No.: EL 1627-4	COA: 0607H32000	Method of Shipment: Fed Ex
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: A100220		Bill of Lading/Air Bill No.: See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	Cool 4C											
Type of Container	aG											
No. of Container(s)	1											
Volume	60mL											
SAMPLE ANALYSIS	VOA - 8260A (TCL)											
Sample No.	Matrix *	Sample Date	Sample Time									
~~J1B5D2~~	~~SOIL~~	6/15/10										
J1B5D3	SOIL	6-15-10	~~0840~~ 0845 ~~6-15-10~~	X								

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J. Sellers Josh Sellers	6-15-10 1440	Sterling Howell	6-15-10 1440
Sterling Howell	6-15-10 1645	Daniel Herrera	6-15-10 1645
Daniel Herrera	6-16-10 1000	FED EX	
	6-17-10 1010	Victor Hernandez	6-17-10 1020
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

REVIEWED BY JEB
DATE 6-16-10

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Lionville Laboratory

SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: WC Hanford
Project/USAF/SOW/Release #: RC-107

Date: 6/17/10

LvL Batch #: 1006083

Sample Custodian:

NOTE. EXPLAIN ALL DISCREPANCIES

1. Samples Hand Delivered or Shipped?	Carrier Fed Ex		Airbill # 7736 4256 7389 7437 7470
2. Custody Seals on coolers or shipping containers intact, signed & dated?	☑ Yes	☐ No	☐ No Seals
3. Outside of coolers or shipping containers are free from damage?	☐ Yes (KG 6-17-10)	☑ No	Comments: Cooler cracked and broken
4. All expected paperwork received (coc & other client specific information) sealed in plactic bag and easily accessible?	☑ Yes	☐ No	
5. Samples received cooled or ambient?	Temp 2.1 2.3 3.2	°C	Cooler # WCH-08-034 025 BHI-94
How was the temperature taken?	☑ IR	☐ Temp. Blank	☐ Other (Specify)
Is the Temp. Criteria met for these samples? (Hg in soils @ 4°C)	☑ Yes	☐ No	
6. Custody seals on sample containers intact. signed and dated?	☑ Yes	☐ No	☐ No Seals
7. COC (Client & LvL) signed & dated?	☑ Yes	☐ No	
8. Sample containers are intact?	☑ Yes	☐ No	
9. All samples on COC received?	☑ Yes	☐ No	
All samples received on COC?	☑ Yes	☐ No	
10. All sample label information matches COC?	☑ Yes	☐ No	
11. Samples properly preserved? (If #5 is no. then this is no.)	☑ Yes	☐ No	
12. Samples received within hold times?	☑ Yes	☐ No	
Short holds taken to wet lab?	☐ Yes	☐ No	☑ N/A
13. VOA, TOC, TOX free of headspace?	☑ Yes	☐ No	☐ N/A
14. QC stickers placed on bottles designated by client?	☐ Yes	☐ No	☑ N/A
15. Shipment meets LvL Sample Acceptance Policy? (Identify all bottles that do not meet the policy, which is on the reverse of this page.)	☑ Yes	☐ No	
16. Project Manager contacted concerning any discrepancies?	☐ Yes	☐ No	☑ N/A
Person Contacted _____		Date _____	