

SAF-RC-006
100-N Area D4 – Other
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Bill Rodgers

X5-51

KW 7/31/12
INITIAL/DATE

COMMENTS:

SDG K3945

SAF-RC-006

Rad only

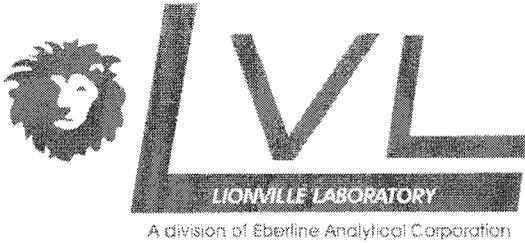
Chem only

Rad & Chem

Complete

Partial

Waste Site(s): 100N Waste Pad



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

26 July 2012

Joan Kessner
WC-Hanford, Inc.
2620 Fermi Avenue
MSIN H4-21
Richland, WA 99354

Subject: Analytical Data Package

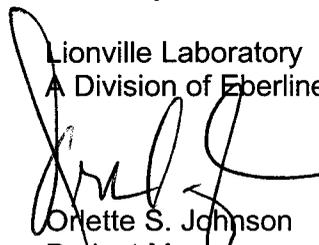
Dear Ms. Kessner:

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

LvLI Batch #	1207011
SDG #	K3945
SAF #	RC-006
Date Received	07/10/12
# Samples	2
Matrix	OTHER SOLID
Volatiles	
Semivolatiles	
Pest/PCB	
Glycols	
DRO/KRO/GRO	
PAHs	
Herbicides	
Metals	
Inorganics	X

The electronic data deliverable (EDD) has been emailed. If you have any questions, please don't hesitate to contact me at (610) 280-3012.

Sincerely,

Lionville Laboratory
A Division of Eberline Analytical Corporation

Orlette S. Johnson
Project Manager

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 10 pages.

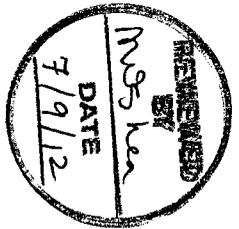
CHAIN OF CUSTODY

Collector: R Shuler
 Project Designation: 100-N Area D4 - Other
 Ice Chest No.: WCH-11-023
 Shipped To: EBERLINE SERVICES / LIONVILLE
 POSSIBLE SAMPLE HAZARDS/REMARKS: pH, Mercury
 Special Handling and/or Storage: Not Cool 4°C
 A3 7-3-12

Company Contact: Bill Rodgers
 Telephone No.: 206.251.7439
 Project Coordinator: KESSNER, JH
 Price Code: 9K
 Data Turnaround: 15 Days
 Offsite Property No.: NA 47-3-12
 A110465
 Field Logbook No.: EL-1516-20
 COA: RD4MXX2F00
 Method of Shipment: Fed Ex
 Bill of Lading/Air Bill No.: See OSPC

Sample No.	Matrix *	Sample Date	Sample Time	Preservation	Cool 4C	Type of Container	G/P	No. of Container(s)	1	Volume	60mL	SPECIAL INSTRUCTIONS	
												PH	Mercury
J1PTP6	OTHER	7-3-12	0850										
J1PTP7	OTHER	7-3-12	0800										
J1PTP8	OTHER	7-3-12											

CHAIN OF POSSESSION	Reinquired By/Removed From	Date/Time	Received By/Stored In	Date/Time	Reinquired By/Removed From	Date/Time	Received By/Stored In	Date/Time
	Bill Skiba Rodgers	7/3/12 0850	WHR Rodgers	7-3-12 0850				
	WHR Rodgers	7-3-12	A. Freier	7-3-12				
	A. Freier	7-9-12 0925	Fed Ex					
	WHR Rodgers	7-10-12 1015	WHR Rodgers	7-10-12 1015				



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

Lionville Laboratory
SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: WC Hanford
 Project/SAP/SOW/Release #: PC-006

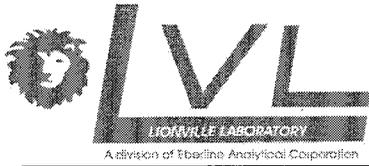
Date: 7/10/12

LvL Batch #: 1207011

Sample Custodian: [Signature]

NOTE: EXPLAIN ALL DISCREPANCIES

- | | | | |
|--|---|--------------------------------------|---|
| 1. Samples Hand Delivered or <u>Shipped?</u> | Carrier <u>FedEx</u> | Airbill # <u>7985 9923 8651</u> | |
| 2. Custody Seals on coolers or shipping containers intact, signed & dated? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> No Seals |
| 3. Outside of coolers or shipping containers are free from damage? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Comments: |
| 4. All expected paperwork received (coc & other client specific information) sealed in plastic bag and easily accessible? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 5. Samples received cooled or ambient? | Temp <u>4.9</u> °C | Cooler # <u>WCH-11-023</u> | |
| How was the temperature taken? | <input checked="" type="checkbox"/> IR | <input type="checkbox"/> Temp. Blank | <input type="checkbox"/> Other (Specify): |
| Is the Temp. Criteria met for these samples? (Hg in soils @ 4°C) | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 6. Custody seals on sample containers intact, signed and dated? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> No Seals |
| 7. COC (Client & LvL) signed & dated? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 8. Sample containers are intact? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 9. All samples on COC received? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| All samples received on COC? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 10. All sample label information matches COC? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 11. Samples properly preserved? (If #5 is no, then this is no.) | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 12. Samples received within hold times? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| Short holds taken to wet lab? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| 13. VOA, TOC, TOX free of headspace? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 14. QC stickers placed on bottles designated by client? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> 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.) | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 16. Project Manager contacted concerning any discrepancies? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> 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-006
Project Number: K3945
Project Manager: Joan Kessner

Reported:
07/25/2012 16:11

Analytical Report for Wet Chemistry

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
J1PTP6	1207011-01	Other Solid	07/03/2012 07:45	07/10/2012 10:15
J1PTP7	1207011-02	Other Solid	07/03/2012 08:00	07/10/2012 10:15



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Case Narrative

Client: WC-HANFORD RC-006 K3945

LVL#: 1207011

Date Received: 0710-12

INORGANIC NARRATIVE

1. This narrative covers the analysis of 2 solid samples.
2. The samples were prepared and analyzed in accordance with the method indicated on the data summary report. Results for soil or solid pH are measured in water at 25°C unless otherwise specified.

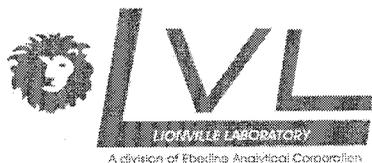
Lionville Lab (LvL) is NELAP accredited by the State of Pennsylvania. For a complete list of accrediting authorities and the corresponding analytes/methods, please contact your Project Manager. LvL certifies that all test results meet the requirements of NELAC with any exception noted in the following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

3. Sample holding times as required by the method and/or contract were met.
4. The results presented in this report are derived from samples that met LvL's sample acceptance policy
5. The Laboratory Control Sample (LCS) was within the method criteria.
6. The replicate analysis was within the 20% Relative Percent Difference (RPD) control limit.
7. 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

njpl07-011

7/26/12
Date



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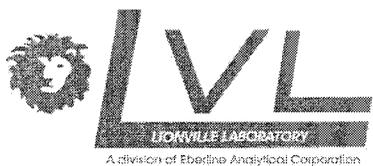
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Notes and Definitions

- * 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

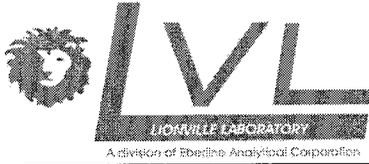


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WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-006 Project Number: K3945 Project Manager: Joan Kessner	Reported: 07/25/2012 16:11
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**Wet Chemistry
 Lionville Laboratory**

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
J1PTP6 (1207011-01) Other Solid								
pH	7.30	0.10	pH Units	1	L207051	07/11/2012	07/11/2012	SW846 9045D
J1PTP7 (1207011-02) Other Solid								
pH	8.86	0.10	pH Units	1	L207051	07/11/2012	07/11/2012	SW846 9045D



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Wet Chemistry - Quality Control
Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L207051 - Default Prep GenChem									
Duplicate (L207051-DUP1)		Source: 1207011-02		Prepared & Analyzed: 07/11/2012					
pH	8.89	0.10	pH Units		8.86			0.338	20
Reference (L207051-SRM1)		Prepared & Analyzed: 07/11/2012							
pH	10.0	0.10	pH Units	10.000		100	99-101		