0078787

SAF-RC-102
618-7 Burial Ground - Filter
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 9/23/08
Initials/Date

COMMENTS:

SDG K1300 SAF-RC-102

Rad only X Chem only Rad & Chem

X Complete Partial

WASTE SITE: 618-7 Burial Ground – Air Monitors

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SEP 2 9 2008
EDMC

LIONVILLE LABORATORY INC.

RECEIVED
SEP 2008

16 September 2008

Joan Kessner
WC-Hanford, Inc.
2620 Fermi Avenue
MSIN H9-03
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 #	0808L118
SDG #	K1300
SAF #	RC-102
Date Received	8/27/08
# Samples	2
Matrix	OTHER SOLID
Volatiles	
Semivolatiles	
Pest/PCB	
Glycols	
DRO/KRO/GRO	
GC Alcohols	
Herbicides	
Metals	X
Inorganics	

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

Sincerely,
Lionville Laboratory Incorporated

Orlette S. Johnson
Project Manager
r:\group\pm\orlette\tnu-hanford\data\b_ltrs.doc

208 Welsh Pool Road • Exton, PA 19341- 1313 • (610) 280-3000 • Fax (610) 280-3041

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SEP 2008

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
WC-HANFORD RC-102 K1300

DATE RECEIVED: 08/27/08 LVL LOT # :0808L118

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
J17H16						
SILVER, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
ALUMINUM, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
ARSENIC, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
BORON, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
BARIUM, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
BERYLLIUM, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
BISMUTH, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
CALCIUM, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
CADMIUM, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
COBALT, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
CHROMIUM, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
COPPER, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
IRON, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
MERCURY, TOTAL	001	SO	08C0152	08/25/08	09/02/08	09/03/08
POTASSIUM, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/04/08
LITHIUM, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
MAGNESIUM, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
MANGANESE, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
MOLYBDENUM, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
SODIUM, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/04/08
NICKEL, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
PHOSPHORUS, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/04/08
LEAD, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
ANTIMONY, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
SELENIUM, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
SILICON, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
TIN, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
STRONTIUM, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
TITANIUM, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
THALLIUM, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
URANIUM, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
VANADIUM, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
ZINC, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
ZIRCONIUM, TOTAL	001	SO	08L0319	08/25/08	08/29/08	09/02/08
J17H16-A BLANK MEDIA						
SILVER, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
WC-HANFORD RC-102 K1300

DATE RECEIVED: 08/27/08 LVL LOT # :0808L118

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
ALUMINUM, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
ARSENIC, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
BORON, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
BARIUM, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
BERYLLIUM, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
BISMUTH, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
CALCIUM, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
CADMIUM, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
COBALT, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
CHROMIUM, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
COPPER, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
IRON, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
MERCURY, TOTAL	002	SO	08C0152	08/25/08	09/02/08	09/03/08
POTASSIUM, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/04/08
LITHIUM, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
MAGNESIUM, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
MANGANESE, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
MOLYBDENUM, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
SODIUM, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/04/08
NICKEL, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
PHOSPHORUS, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/04/08
LEAD, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
ANTIMONY, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
SELENIUM, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
SILICON, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
TIN, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
STRONTIUM, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
TITANIUM, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
THALLIUM, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
URANIUM, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
VANADIUM, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
ZINC, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08
ZIRCONIUM, TOTAL	002	SO	08L0319	08/25/08	08/29/08	09/02/08

AB QC:

SILVER LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
SILVER LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
WC-HANFORD RC-102 K1300

DATE RECEIVED: 08/27/08 LVL LOT # :0808L118

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
SILVER, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
ALUMINUM LABORTORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
ALUMINUM LABORTORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
ALUMINUM, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
ARSENIC LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
ARSENIC LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
ARSENIC, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
BORON LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
BORON LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
BORON, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
BARIUM LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
BARIUM LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
BARIUM, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
BERYLLIUM LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
BERYLLIUM LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
BERYLLIUM, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
BISMUTH, LCS	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
BISMUTH, LCS	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
BISMUTH, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
CALCIUM LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
CALCIUM LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
CALCIUM, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
CADMIUM LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
CADMIUM LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
CADMIUM, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
COBALT LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
COBALT LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
COBALT, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
CHROMIUM LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
CHROMIUM LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
CHROMIUM, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
COPPER LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
COPPER LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
COPPER, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
IRON LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
IRON LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
IRON, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
MERCURY LABORATORY	LC1 BS	W	08C0152	N/A	09/02/08	09/03/08

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
WC-HANFORD RC-102 K1300

DATE RECEIVED: 08/27/08 LVL LOT # :0808L118

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
MERCURY, TOTAL	MB1	W	08C0152	N/A	09/02/08	09/03/08
POTASSIUM LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/04/08
POTASSIUM LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/04/08
POTASSIUM, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/04/08
LITHIUM LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
LITHIUM LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
LITHIUM, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
MAGNESIUM LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
MAGNESIUM LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
MAGNESIUM, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
MANGANESE LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
MANGANESE LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
MANGANESE, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
MOLYBDENUM LABORATOR	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
MOLYBDENUM LABORATOR	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
MOLYBDENUM, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
SODIUM LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/04/08
SODIUM LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/04/08
SODIUM, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/04/08
NICKEL LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
NICKEL LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
NICKEL, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
PHOSPHORUS LCS	LC1 BS	W	08L0319	N/A	08/29/08	09/04/08
PHOSPHORUS LCS	LC2 BS	W	08L0319	N/A	08/29/08	09/04/08
PHOSPHORUS, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/04/08
LEAD LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
LEAD LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
LEAD, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
ANTIMONY LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
ANTIMONY LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
ANTIMONY, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
SELENIUM LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
SELENIUM LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
SELENIUM, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
SILICON LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
SILICON LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
SILICON, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
TIN LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
WC-HANFORD RC-102 K1300

DATE RECEIVED: 08/27/08 LVL LOT # :0808L118

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
TIN LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
TIN, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
STRONTIUM LCS STANDA	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
STRONTIUM LCS STANDA	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
STRONTIUM, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
TITANIUM LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
TITANIUM LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
TITANIUM, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
THALLIUM LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
THALLIUM LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
THALLIUM, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
URANIUM LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
URANIUM LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
URANIUM, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
VANADIUM LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
VANADIUM LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
VANADIUM, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
ZINC LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
ZINC LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
ZINC, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08
ZIRCONIUM LABORATORY	LC1 BS	W	08L0319	N/A	08/29/08	09/02/08
ZIRCONIUM LABORATORY	LC2 BS	W	08L0319	N/A	08/29/08	09/02/08
ZIRCONIUM, TOTAL	MB1	W	08L0319	N/A	08/29/08	09/02/08

LIONVILLE LABORATORY INC.

Analytical Report

Client: TNU-HANFORD RC-102
LVL#: 0808L118
SDG/SAF#: K1300/RC-102

W.O.#: 11343-606-001-9999-00
Date Received: 08-27-08

METALS CASE NARRATIVE

The following is a summary of the QC results accompanying the sample results. Lionville Laboratory (LvLI) 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 2 wipe samples.

2. The samples were prepared and analyzed in accordance with methods checked on the attached glossary.

   Each sample consisted of three filter disks. Each filter disk was cut in half, dividing the sample stain as evenly as possible for each disk, to accomodate the digestion procedures for both ICP Metals and Mercury. The entire sample portion was digested during the preparation procedure. The Initial weight/volume for ICP metals was entered as 1000 ml, with a final volume of 100 ml, to achieve a c/d factor of 0.1000. The final digestate volume for Mercury was 50 ml, resulting in a c/d factor of 0.0500. The c/d factor is needed to report sample results as µg/wipe. A 2-fold dilution factor was applied to account for the other half of the filter disks.

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

4. All Initial and Continuing Calibration Verifications (ICV/CCVs) were within the 90-110% control limits (80-120% for Mercury) with the exception of Potassium and Sodium in file TA0902B. The samples were rerun for Potassium and Sodium in file PS0904A along with the Phosphorous analysis.

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

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

Inorganics Method Blank Data Summary.

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

8. All laboratory control samples (LCS) were within the 80-120% control limits. Refer to the Inorganics Laboratory Control Standards Report. A second LCS was performed in lieu of matrix QC.

9. All LCS duplicate analyses were within the 20% Relative Percent Difference (RPD) control limits. Refer to the Inorganics Duplicate Spike Report.

10 For the purposes of this report, the data has 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.

11 LvLI 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.

12 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 Incorporated

9/8/08
Date

jjw/m08-118

LVLI
LIONVILLE LABORATORY INC.

METALS METHOD GLOSSARY

e following methods are used as reference for the digestion and analysis of samples contained within th

t#: 08082118

aching Procedure: __1310 __1311 __1312 __Other:_____

P Metals __ Digestion and __ Analysis Methods: __ILM03.0 __ILM04.0

etals Digestion Methods: __3005A __3010A __3015 __3020A X 3050B __3051 __200.7 __SS17
__Other: _____

Metals Analysis Methods

	SW846		EPA		STD MTD	EPA OSWR	USATHAMA
luminum	X 6010B		__200.7				__99
ntimony	X 6010B	__7041 [5]	__200.7	__204.2			__99
rsenic	X 6010B	__7060A [5]	__200.7	__206.2	__3113B		__99
arium	X 6010B		__200.7				__99
eryllium	X 6010B		__200.7				__99
ismuth	X 6010B [1]		__200.7 [1]			__1620	__99
oron	X 6010B		__200.7				__99
admium	X 6010B	__7131A [5]	__200.7	__213.2			__99
alcium	X 6010B		__200.7				__99
hromium	X 6010B	__7191 [5]	__200.7	__218.2			__SS17
obalt	X 6010B		__200.7				__99
opper	X 6010B	__7211 [5]	__200.7	__220.2			__99
on	X 6010B		__200.7				__99
ead	X 6010B	__7421 [5]	__200.7	__239.2	__3113B		__99
ithium	X 6010B	__7430 [4]	__200.7			__1620	__99
lagnesium	X 6010B		__200.7				__99
langanese	X 6010B		__200.7				__99
lercury	__7470A [3]	X 7471A [3]	__245.1 [2]	__245.5 [2]			__99
lolybdenum	X 6010B		__200.7				__99
lickel	X 6010B		__200.7				__99
otassium	X 6010B	__7610 [4]	__200.7	__258.1 [4]			__99
are Earths	__6010B [1]		__200.7 [1]			__1620	__99
elenium	X 6010B	__7740 [5]	__200.7	__270.2	__3113B		__99
ilicon	X 6010B [1]		__200.7			__1620	__99
ilica	__6010B		__200.7			__1620	__99
ilver	X 6010B	__7761 [5]	__200.7	__272.2			__99
odium	X 6010B	__7770 [4]	__200.7	__273.1 [4]			__99
trontium	X 6010B		__200.7				__99
hallium	X 6010B	__7841 [5]	__200.7	__279.2	__200.9		__99
in	X 6010B		__200.7				__99
itanium	X 6010B		__200.7				__99
ranium	X 6010B [1]		__200.7 [1]			__1620	__99
anadium	X 6010B		__200.7				__99
inc	X 6010B		__200.7				__99
irconium	X 6010B [1]		__200.7 [1]			__1620	__99

Other: Phosphorous Method: 6010B

LW00000008

METHOD REFERENCES AND DATA QUALIFIERS

DATA QUALIFIERS

U = Indicates that the parameter was not detected at or above the reported limit. The associated numerical value is the sample detection limit.

* = Indicates that the original sample result is greater than 4x the spike amount added.

ABBREVIATIONS

MB = Method or Preparation Blank.
MS = Matrix Spike.
MSD = Matrix Spike Duplicate.
REP = Sample Replicate
LCS = Laboratory Control Sample.
NC = Not calculated.

ANALYTICAL METAL METHODS

1. Not included in the method element list.

2. Modified Hg: Hg1 and Hg2 require less total volume of digestate due to the autosampler analysis. Sample volumes and reagents for mercury determinations in water and soil have been proportionately scaled down to adapt to this semi-automated technique. The sample volume used for water analysis is 33 mL. For soils, approximately 0.3 grams of sample is taken to a final volume of 50 mL (including all reagents).

3. Flame AA.

4. Graphite Furnace AA.

L-WI-033/N-04/98

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 09/04/08

CLIENT: WC-HANFORD RC-102 K1300 LVL LOT #: 0808L118

WORK ORDER: 60049-001-001-0001-00

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-001	J17H16	Silver, Total	0.20 u	UG/WIPE	0.20	2.0
		Aluminum, Total	160	UG/WIPE	8.0	2.0
		Arsenic, Total	1.0 u	UG/WIPE	1.0	2.0
		Boron, Total	1.0 u	UG/WIPE	1.0	2.0
		Barium, Total	1.8	UG/WIPE	0.20	2.0
		Beryllium, Total	0.10 u	UG/WIPE	0.10	2.0
		Bismuth, Total	1.2 u	UG/WIPE	1.2	2.0
		Calcium, Total	214	UG/WIPE	8.0	2.0
		Cadmium, Total	0.12	UG/WIPE	0.10	2.0
		Cobalt, Total	0.54	UG/WIPE	0.40	2.0
		Chromium, Total	2.6	UG/WIPE	0.40	2.0
		Copper, Total	0.40 u	UG/WIPE	0.40	2.0
		Iron, Total	448	UG/WIPE	9.0	2.0
		Mercury, Total	0.006u	UG/WIPE	0.006	2.0
		Potassium, Total	98.5 u	UG/WIPE	98.5	2.0
		Lithium, Total	0.27	UG/WIPE	0.08	2.0
		Magnesium, Total	34.3	UG/WIPE	5.0	2.0
		Manganese, Total	23.9	UG/WIPE	0.08	2.0
		Molybdenum, Total	0.60 u	UG/WIPE	0.60	2.0
		Sodium, Total	61.2	UG/WIPE	4.0	2.0
		Nickel, Total	1.6	UG/WIPE	0.40	2.0
		Phosphorus, Total	16.9	UG/WIPE	10.0	2.0
		Lead, Total	1.2	UG/WIPE	0.60	2.0
		Antimony, Total	21.5	UG/WIPE	0.60	2.0
		Selenium, Total	1.2 u	UG/WIPE	1.2	2.0
		Silicon, Total	89.1	UG/WIPE	8.0	2.0
		Tin, Total	1.6	UG/WIPE	1.2	2.0
		Strontium, Total	2.1	UG/WIPE	0.06	2.0
		Titanium, Total	27.3	UG/WIPE	0.20	2.0
		Thallium, Total	1.2 u	UG/WIPE	1.2	2.0
		Uranium, Total	4.0 u	UG/WIPE	4.0	2.0
		Vanadium, Total	0.45	UG/WIPE	0.28	2.0
		Zinc, Total	4.6	UG/WIPE	1.2	2.0
		Zirconium, Total	10.0 u	UG/WIPE	10.0	2.0

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 09/04/08

CLIENT: WC-HANFORD RC-102 K1300 LVL LOT #: 0808L118

WORK ORDER: 60049-001-001-0001-00

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT	DILUTION FACTOR
-002	J17H16-A BLANK MEDIA	Silver, Total	0.20	u	UG/WIPE	0.20	2.0
		Aluminum, Total	9.8		UG/WIPE	8.0	2.0
		Arsenic, Total	1.0	u	UG/WIPE	1.0	2.0
		Boron, Total	1.0	u	UG/WIPE	1.0	2.0
		Barium, Total	0.28		UG/WIPE	0.20	2.0
		Beryllium, Total	0.10	u	UG/WIPE	0.10	2.0
		Bismuth, Total	1.2	u	UG/WIPE	1.2	2.0
		Calcium, Total	34.7		UG/WIPE	8.0	2.0
		Cadmium, Total	0.10	u	UG/WIPE	0.10	2.0
		Cobalt, Total	0.43		UG/WIPE	0.40	2.0
		Chromium, Total	1.7		UG/WIPE	0.40	2.0
		Copper, Total	0.40	u	UG/WIPE	0.40	2.0
		Iron, Total	11.3		UG/WIPE	9.0	2.0
		Mercury, Total	0.006	u	UG/WIPE	0.006	2.0
		Potassium, Total	98.5	u	UG/WIPE	98.5	2.0
		Lithium, Total	0.19		UG/WIPE	0.08	2.0
		Magnesium, Total	9.2		UG/WIPE	5.0	2.0
		Manganese, Total	20.0		UG/WIPE	0.08	2.0
		Molybdenum, Total	0.60	u	UG/WIPE	0.60	2.0
		Sodium, Total	21.7		UG/WIPE	4.0	2.0
		Nickel, Total	0.63		UG/WIPE	0.40	2.0
		Phosphorus, Total	13.5		UG/WIPE	10.0	2.0
		Lead, Total	0.60	u	UG/WIPE	0.60	2.0
		Antimony, Total	25.1		UG/WIPE	0.60	2.0
		Selenium, Total	1.2	u	UG/WIPE	1.2	2.0
		Silicon, Total	15.2		UG/WIPE	8.0	2.0
		Tin, Total	1.9		UG/WIPE	1.2	2.0
		Strontium, Total	0.26		UG/WIPE	0.06	2.0
		Titanium, Total	1.4		UG/WIPE	0.20	2.0
		Thallium, Total	1.2	u	UG/WIPE	1.2	2.0
		Uranium, Total	4.0	u	UG/WIPE	4.0	2.0
		Vanadium, Total	0.28	u	UG/WIPE	0.28	2.0
		Zinc, Total	3.4		UG/WIPE	1.2	2.0
		Zirconium, Total	10.0	u	UG/WIPE	10.0	2.0

Lionville Laboratory, Inc.

INORGANICS METHOD BLANK DATA SUMMARY PAGE 09/04/08

CLIENT: WC-HANFORD RC-102 K1300 LVL LOT #: 0808L118

WORK ORDER: 60049-001-001-0001-00

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
BLANK1	08L0319-MB1	Silver, Total	0.10 u	UG	0.10	1.0
		Aluminum, Total	4.8	UG	4.0	1.0
		Arsenic, Total	0.50 u	UG	0.50	1.0
		Boron, Total	0.50 u	UG	0.50	1.0
		Barium, Total	0.10 u	UG	0.10	1.0
		Beryllium, Total	0.05 u	UG	0.05	1.0
		Bismuth, Total	0.60 u	UG	0.60	1.0
		Calcium, Total	4.0 u	UG	4.0	1.0
		Cadmium, Total	0.05 u	UG	0.05	1.0
		Cobalt, Total	0.20 u	UG	0.20	1.0
		Chromium, Total	0.20 u	UG	0.20	1.0
		Copper, Total	0.20 u	UG	0.20	1.0
		Iron, Total	4.5 u	UG	4.5	1.0
		Potassium, Total	49.3 u	UG	49.3	1.0
		Lithium, Total	0.08	UG	0.04	1.0
		Magnesium, Total	2.5 u	UG	2.5	1.0
		Manganese, Total	0.04 u	UG	0.04	1.0
		Molybdenum, Total	0.30 u	UG	0.30	1.0
		Sodium, Total	2.0 u	UG	2.0	1.0
		Nickel, Total	0.20 u	UG	0.20	1.0
		Phosphorus, Total	5.0 u	UG	5.0	1.0
		Lead, Total	0.30 u	UG	0.30	1.0
		Antimony, Total	0.30 u	UG	0.30	1.0
		Selenium, Total	0.60 u	UG	0.60	1.0
		Silicon, Total	4.0 u	UG	4.0	1.0
		Tin, Total	1.0	UG	0.60	1.0
		Strontium, Total	0.05	UG	0.03	1.0
		Titanium, Total	0.10 u	UG	0.10	1.0
		Thallium, Total	0.60 u	UG	0.60	1.0
		Uranium, Total	2.0 u	UG	2.0	1.0
		Vanadium, Total	0.14 u	UG	0.14	1.0
		Zinc, Total	0.60 u	UG	0.60	1.0
		Zirconium, Total	5.0 u	UG	5.0	1.0
BLANK1	08C0152-MB1	Mercury, Total	0.003u	UG	0.06	1.0

Lionville Laboratory, Inc.

INORGANICS DUPLICATE SPIKE REPORT 09/04/08

CLIENT: WC-HANFORD RC-102 K1300 LVL LOT #: 0808L118

WORK ORDER: 60049-001-001-0001-00

SAMPLE	SITE ID	ANALYTE	SPIKE#1 %RECOV	SPIKE#2 %RECOV	%DIFF
LCS2	08L0319-LC2	Silver, LCS	98.6	98.6	0.00
		Aluminum, LCS	98.1	98.8	0.73
		Arsenic, LCS	98.4	97.2	1.3
		Boron, LCS	95.7	95.4	0.31
		Barium, LCS	95.9	96.5	0.62
		Beryllium, LCS	103.2	101.6	1.6
		Bismuth, LCS	98.2	97.7	0.51
		Calcium, LCS	103.9	102.2	1.7
		Cadmium, LCS	102.0	100	2.0
		Cobalt, LCS	100.7	99.1	1.6
		Chromium, LCS	102.4	100.8	1.6
		Copper, LCS	98.2	98.6	0.49
		Iron, LCS	99.2	98.4	0.77
		Potassium, LCS	88.8	87.7	1.2
		Lithium, LCS	100.2	100.8	0.66
		Magnesium, LCS	97.4	96.6	0.92
		Manganese, LCS	101.5	100.4	1.1
		Molybdenum, LCS	100	98.8	1.2
		Sodium, LCS	91.5	92.1	0.70
		Nickel, LCS	102.5	101.3	1.2
		Phosphorus, LCS	91.2	92.4	1.4
		Lead, LCS	103.1	101.4	1.7
		Antimony, LCS	96.8	96.2	0.66
		Selenium, LCS	95.0	94.2	0.92
		Silicon, LCS	37.9	40.0	5.4
		Tin, LCS	101.7	99.8	1.9
		Strontium, LCS	96.3	96.4	0.083
		Titanium, LCS	98.8	98.2	0.58
		Thallium, LCS	99.1	97.8	1.3
		Uranium, LCS	94.9	95.6	0.74
		Vanadium, LCS	98.4	97.5	0.86
		Zinc, LCS	101.9	100.7	1.2
		Zirconium, LCS	99.0	98.0	1.0

Lionville Laboratory, Inc.

INORGANICS LABORATORY CONTROL STANDARDS REPORT 09/04/08

CLIENT: WC-HANFORD RC-102 K1300 LVL LOT #: 0808L118

WORK ORDER: 60049-001-001-0001-00

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	SPIKED AMOUNT	UNITS	%RECOV
LCS1	08L0319-LC1	Silver, LCS	49.3	50.0	UG	98.6
		Aluminum, LCS	490	500	UG	98.1
		Arsenic, LCS	984	1000	UG	98.4
		Boron, LCS	479	500	UG	95.7
		Barium, LCS	479	500	UG	95.9
		Beryllium, LCS	25.8	25.0	UG	103.2
		Bismuth, LCS	491	500	UG	98.2
		Calcium, LCS	2600	2500	UG	103.9
		Cadmium, LCS	25.5	25.0	UG	102.0
		Cobalt, LCS	252	250	UG	100.7
		Chromium, LCS	51.2	50.0	UG	102.4
		Copper, LCS	123	125	UG	98.2
		Iron, LCS	496	500	UG	99.2
		Potassium, LCS	2220	2500	UG	88.8
		Lithium, LCS	501	500	UG	100.2
		Magnesium, LCS	2440	2500	UG	97.4
		Manganese, LCS	76.1	75.0	UG	101.5
		Molybdenum, LCS	500	500	UG	100
		Sodium, LCS	2290	2500	UG	91.5
		Nickel, LCS	205	200	UG	102.5
		Phosphorus, LCS	456	500	UG	91.2
		Lead, LCS	258	250	UG	103.1
		Antimony, LCS	290	300	UG	96.8
		Selenium, LCS	950	1000	UG	95.0
		Silicon, LCS	190	500	UG	37.9
		Tin, LCS	508	500	UG	101.7
		Strontium, LCS	481	500	UG	96.3
		Titanium, LCS	494	500	UG	98.8
		Thallium, LCS	991	1000	UG	99.1
		Uranium, LCS	474	500	UG	94.9
		Vanadium, LCS	246	250	UG	98.4
		Zinc, LCS	102	100	UG	101.9
		Zirconium, LCS	495	500	UG	99.0
LCS2	08L0319-LC2	Silver, LCS	49.3	50.0	UG	98.6
		Aluminum, LCS	494	500	UG	98.8
		Arsenic, LCS	972	1000	UG	97.2
		Boron, LCS	477	500	UG	95.4
		Barium, LCS	482	500	UG	96.5
		Beryllium, LCS	25.4	25.0	UG	101.6

Lionville Laboratory, Inc.

INORGANICS LABORATORY CONTROL STANDARDS REPORT 09/04/08

CLIENT: WC-HANFORD RC-102 K1300 LVL LOT #: 0808L118

WORK ORDER: 60049-001-001-0001-00

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	SPIKED AMOUNT	UNITS	%RECOV
LCS2	08L0319-LC2	Bismuth, LCS	489	500	UG	97.7
		Calcium, LCS	2560	2500	UG	102.2
		Cadmium, LCS	25.0	25.0	UG	100
		Cobalt, LCS	248	250	UG	99.1
		Chromium, LCS	50.4	50.0	UG	100.8
		Copper, LCS	123	125	UG	98.6
		Iron, LCS	492	500	UG	98.4
		Potassium, LCS	2190	2500	UG	87.7
		Lithium, LCS	504	500	UG	100.8
		Magnesium, LCS	2410	2500	UG	96.6
		Manganese, LCS	75.3	75.0	UG	100.4
		Molybdenum, LCS	494	500	UG	98.8
		Sodium, LCS	2300	2500	UG	92.1
		Nickel, LCS	203	200	UG	101.3
		Phosphorus, LCS	462	500	UG	92.4
		Lead, LCS	253	250	UG	101.4
		Antimony, LCS	288	300	UG	96.2
		Selenium, LCS	942	1000	UG	94.2
		Silicon, LCS	200	500	UG	40.0
		Tin, LCS	499	500	UG	99.8
		Strontium, LCS	482	500	UG	96.4
		Titanium, LCS	491	500	UG	98.2
		Thallium, LCS	978	1000	UG	97.8
		Uranium, LCS	478	500	UG	95.6
		Vanadium, LCS	244	250	UG	97.5
		Zinc, LCS	101	100	UG	100.7
		Zirconium, LCS	490	500	UG	98.0
LCS1	08C0152-LC1	Mercury, LCS	0.255	0.25	UG	101.9

Lionville Laboratory Incorporated

MERCURY PREPARATION

Logbook # 498

Analyst: EB
Date 9/2/08
Start Time/Temp: 1610 | 93°
End Time/Temp: 1640 | 97°

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

Prep Batch: 08C0157
Worksheet: HG090301
SOP No. ME-HgCVAA, Rev. 02

pH < 2 for Liquids? __ Yes NA 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.

LvLI Batch #	Container Number	Spike Volume (mL)	Spike Conc. (µg/L)	Initial Wt. or Volume (g or mL)	Final Sample Volume (mL)	Comments, % Solids, etc.
Blank	E			10mL	50mL	
0.2 ng/L	JC	0.100				
1.0	L53	~~0.250~~ 0.500 TE 9/4/08				
2.0	KX	1.000				
5.0	A901	2.500				
10.0	1721	5.000				
ICV	6J	0.125	2.5			
CCV	205	0.250	5.0			
ICB/CCB	X0			10mL ~~0.5mL~~ TE 9/4/08		
MB1	A9			0.5mL		PBS152
LC1	P3	0.250	5.0	~~3 wipes~~ TE 9/4/08		LCSS152
0808L118-001	UT			3 pieces ½ wipes		
002	NR					

9/2/08

Standard:	ID	Prep Date/Time
ICAL/MS	RI 6072-78-14B	9/2/08 1030
ICV/CCV/LCS	US 6072-78-15A	↓

Reviewed By/Date: [signature] 9/5/08

see book # 9368 for std traceability information

Soil LCS =US Metals in soil No.3; True Value = 4.70 mg/Kg
Catalogue #1RM-021, Lot # E021

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

Lionville Laboratory Incorporated Logbook #: 482

SAMPLE DIGESTION RECORD

SOP: L-SPI-3020 Rev. 00

Digestion Batch #: 08L0319
Date/Time Initiated: 8/29/08, 1200
Date/Time Completed: 8/29/08 1730
Analyst(s): JW
Matrix: Soil Water Other: wipes
Instr. Type: AA (ICP)
Parameters: see backlog

(Digested) / Undigested (circle one)
Balance #: N/A
Balance Cal Verif: Y NA
Hot Plate Temp: 94°

Method: SW (circle) 3005A, 3010A, 3015, 3020A, 7060A (As/Se), 7760A (Ag), (3050B), 3051
DW 200.7 (1994), 200.9, 3113B
MCAWW 200.7 (1982), 200 (AA), 206.2 (As/Se)
SM 3030C (NC)
CLP ILMO3.0, ILMO4.0
Other teflon

TMW 8/29/08

COC Batch #	Spike Vol(s) (mL)	Initial Wt/Vol (g/mL)	Final Vol (mL)	pH <2	Type: To/So/TC	Texture	Color/Appearance (3 halves)	Artifact	Turb
08082118-001		1/2 wipe	50 ml	<2	TO	N/A	1.5 wipe filters	brown stains	
002		↓	100	↓	↓	↓	↓	clean-white	
08L0319-MB1		1000	↓	↓	↓	↓	N/A		
LC1	1.0 ml*	↓	↓	↓	↓	↓	↓		
LC2	↓	↓	↓	↓	↓	↓	↓		

JW 8/29/08

Spiking IDs:
MS #: N/A
↓
LCS #: 6072-78-08
09
10
11

Reagent IDs:
HNO_3 G07057
HCL G15040
H_2O_2 G15A18
1:1 HNO_3 9789-083-08
1:1 HCL

File ID#: IC031901
LIMS Transfer: (Y) N
updated
Data Review By/Date: [signature] 9/3/08

*also 0.5 ml 6072-076-11 (Bi)
0.5 ml 6072-079-14 (P-)
0.5 ml 6072-078-01 (U-)
0.5 ml 6072-079-13 (Zr)

L-SPI-3020-A-0601

onville Laboratory Use Only

08086118

Custody Transfer Record/Lab Work Request

Page 1 of 1

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

LVLI

00000018

ent Washington Closure Hanford SAF# RC-102

t. Final Proj. Sampling Date

oject# 60049-001-001-0001-00

oject Contact/Phone#

onville Laboratory Project Manager O Johnson

: SW846 Del STD TAT 7 days

ate Rec'd 8-27-08 Date Due 9-3-08

Refrigerator #								A 2							
#/Type Container	Liquid / Solid							1P							
Volume								Filter							
Preservatives															
ANALYSES REQUESTED →		ORGANIC: VOA	BNA	Pest/PCB	Herb			INORG: Metal	CN						

Lionville Laboratory Use Only

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	Metal
001	J17H16			X	8-25-08	1330	X
002	J17H16-A BLANK MEDIA			↓	↓	1400	X

MATRIX CODES: Soil, Sediment, Solid, Sludge, Water, Oil, Air, Drum, Solids, Drum, Liquids, EP/TCLP, Leachate, Wipe, Other, Fish

Special Instructions: X=Filter

met① = HSL + B, Bi, Li, Mo, P, Si, Sr, Sn, U, Ti, Zr

8-28-08 ~~NO~~ HG add

Special Instructions:

8-28-08 1. Add HG per Client.

2.

3.

4.

5.

6.

Relinquished by	Received by	Date	Time
DEO	[signature]	8/27/08	0945

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time
ORIGINAL REWRITTEN		COMPOSITE WASTE	

Washington Closure Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

RC-102-009 | Page 1 of 1

ollector: R. Kerkow	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: ~~3C~~ 9B	Data Turnaround: ~~Calendar D~~ 7 DAYS		
roject Designation: 618-7 Burial Ground - Filter	Sampling Location: 618-7 Burial Ground - Air Monitors		SAF No.: RC-102
e Chest No.: ERC-01-037	Field Logbook No.: EL-1395-13	COA: RG61872600	Method of Shipment: ~~Government Vehicle~~ FedEx
hipped To: LIONVILLE ~~Test America Richland (Formerly Severn Trent)~~	Offsite Property No.: A080316 ~~N/A~~		Bill of Lading/Air Bill No.: See OSPC ~~N/A~~

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage

None

Preservation	None										
Type of Container	Filter										
No. of Container(s)	1										
Volume	~~1cu.~~ 3L										
SAMPLE ANALYSIS	Metals - ~~Be (Beryllium)~~ ICP METALS (1)										

Sample No.	Matrix *	Sample Date	Sample Time										
17H16	OTHER SOLID	8/25/08	1330	X									
BLANK MEDIA	OTHER SOLID	8/25/08	1400	X									

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
RB Kerkow / RB Kerkow	1545 8-25-08	REF 2A (1060)	1545 8-25-08
1060 / 2A	0945 AUG 26 2008	MStankovich	0945 AUG 26 2008
MStankovich	0980 AUG 26 2008	FedEx	
FedEx	8/27/08 0945		8/27/08 0945

SPECIAL INSTRUCTIONS

(1) ICP METALS

NOTE: FILTER MEDIA WAS CHECKED FOR RADIOACTIVE CONTAMINATION USING AN ELECTRA RATE METER. NO CONTAMINATION WAS DETECTED ABOVE NORMAL BACKGROUND. SURVEY M-082508-12. R. Kerkow 8/25/08

Sampler unavailable to remove samples from controlled storage. Shipper removed samples from storage location taking custody of samples for shipment to lab.

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

CH-EE-011

0000000019

Lionville Laboratory Incorporated

SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: Washington Closure Hanford Date: 8/27/08

Project/SAF/SOW/Release #: RC-102

LvLI Batch #: 0808L118 Sample Custodian: [illegible]

NOTE: EXPLAIN ALL DISCREPANCIES

1. Samples Hand Delivered or Shipped?	Carrier FedEx		Airbill # 7794410 0206
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:*
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 19.8	°C	Cooler # ERC-01-037
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 & LvLI) 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 LvLI 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 _____

LvLI LIONVILLE LABORATORY INC.