0077913

SAF-RC-073
100-D/DR Burial Grounds & Remaining Sites – Other Solid Quick Turn
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 6/9/08
INITIAL/DATE

COMMENTS:

SDG K1152 SAF RC-073

Rad only X Chem only Rad & Chem

X Complete Partial

ADD-ON TCLP SVOA

Waste Site: 118-D-3, anomaly 100D-AN-08-008

RECEIVED
JUN 12 2008
EDMC

LIONVILLE LABORATORY INC.

RECEIVED
JUN 2008

2 June 2008

Joan Kessner
WC-Hanford
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 #	0805L089
SDG #	K1152 ADDON
SAF #	RC-073
Date Received	5/9/08
# Samples	3
Matrix	OTHER SOLID
Volatiles	
Semivolatiles	X
Pest/PCB	
Glycols	
DRO/KRO/GRO	
GC Organics	
Herbicides	
Metals	
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

Lionville Laboratory, Inc.
BNA ANALYTICAL DATA PACKAGE FOR
TNU-HANFORD RC-073 K1152

RECEIVED
JUN 2008

DATE RECEIVED: 05/09/08 LVL LOT #:0805L089

CLIENT ID	LVL #	MTX	PREP #	LEACH DATE	EXTR/PREP	ANALYSIS
J16DJ5	004	W	08LE0236	05/13/08	05/15/08	05/16/08
J16DJ6	005	W	08LE0236	05/13/08	05/15/08	05/16/08
J16DJ7	006	W	08LE0236	05/13/08	05/15/08	05/16/08
J16DJ7	006 MS	W	08LE0236	05/13/08	05/15/08	05/16/08
J16DJ7	006 MSD	W	08LE0236	05/13/08	05/15/08	05/16/08
LAB QC:						
SBLKUU	MB1	W	08LE0236	N/A	05/15/08	05/16/08
SBLKUU	MB1 BS	W	08LE0236	N/A	05/15/08	05/16/08
08LT0041-LB1	LB1	W	08LE0236	N/A	05/15/08	05/16/08

ADDENDUM

This report provides Toxicity Characteristics Leaching Procedure (TCLP) information. Listed on the next page, the client identification on the ITCL labchron, "TCLP" represents the non-volatile leachate fraction and "TCLP LEACHATE" represents the Zero Headspace Extraction (ZHE) volatile leachate fraction. The "EXTR/PREP DATE" is the date the leachate preparation was initiated; the "ANALYSIS DATE" is the date the leachates were completed.

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNU-HANFORD RC-073 K1152

DATE RECEIVED: 05/09/08 LVL LOT # :0805L089

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
J16DJ5						
TCLP	001	SO	08LT0041	03/12/08	05/12/08	05/13/08
J16DJ6						
TCLP	002	SO	08LT0041	03/12/08	05/12/08	05/13/08
J16DJ7						
TCLP	003	SO	08LT0041	03/12/08	05/12/08	05/13/08

LIONVILLE LABORATORY INC.

Case Narrative

Client: TNU-HANFORD RC-073
LVL #: 0805L089
SDG/SAF # K1152 / RC-073

W.O. #: 11343-606-001-9999-00
Date Re-logged: 05-09-2008

SEMIVOLATILE - TCLP

One (3) leachate samples were generated on 05-13-2008 from solid samples collected on 03-12-2008.

The samples and their associated QC samples were extracted according to Lionville Laboratory SOPs based on SW 846 method 3510C on 05-15-2008 and analyzed according to criteria set forth in Lionville Laboratory SOPs based on SW 846 Method 8270C for Client Specified Semivolatile target compounds on 05-16-2008.

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

1. Samples were extracted and analyzed within holding times. Samples J16DJ5, J16DJ6 and J16DJ7 were re-logged, per client request, for semivolatile TCLP analysis. Samples were collected 03-12-08; consequently samples were leached outside of the recommended holding time.

2. Non-target compounds were detected, but not reported with these samples.

3. All surrogate recoveries were within acceptance criteria.

4. Two (2) of twenty-four (24) matrix spike recoveries were within acceptance criteria. This was biased high, minimal impact on data.

5. One (1) of twelve (12) blank spike recoveries was outside acceptance criteria. This was biased high, minimal impact on data

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

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

8. All continuing calibration standard analyzed prior to sample extracts were within acceptance criteria.

f:\group\data\bna\tnuhanford\0805-089kl2.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 16 pages.

LvLI
LIONVILLE LABORATORY INC.

9. 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").

10. 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.

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.

Judy Stone

Iain Daniels
Laboratory Manager
Lionville Laboratory Incorporated

5/21/08
Date

GLOSSARY

DATA QUALIFIERS

U = 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 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. 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 or integrations 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.

Semivolatiles by GC/MS, TCLP Leachate Report Date: 05/19/08 13:26

RFW Batch Number: 0805L089 Client: TNU-HANFORD RC-073 K1152 Work Order: 11343606001 Page: 1a

	Cust ID:	J16DJ5		J16DJ6		J16DJ7		J16DJ7		J16DJ7		SBLKUU	
Sample Information	RFW#:	004		005		006		006 MS		006 MSD		08LE0236-MB1	
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	D.F.:	1.00		1.00		1.00		1.00		1.00		1.00	
	Units:	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
Surrogate Recovery	Nitrobenzene-d5	77	%	84	%	74	%	79	%	77	%	103	%
	2-Fluorobiphenyl	74	%	81	%	74	%	84	%	80	%	88	%
	p-Terphenyl-d14	89	%	95	%	85	%	91	%	92	%	94	%
	Phenol-d5	17	%	17	%	21	%	18	%	28	%	29	%
	2-Fluorophenol	29	%	31	%	37	%	33	%	45	%	41	%
	2,4,6-Tribromophenol	72	%	77	%	79	%	89	%	81	%	90	%
Pyridine		0.013	J	0.009	J	0.050	U	18	%	18	%	0.050	U
1,4-Dichlorobenzene		0.050	U	0.050	U	0.050	U	78	%	83	%	0.050	U
2-Methylphenol		0.050	U	0.050	U	0.050	U	56	%	62	%	0.050	U
3/4-Methylphenol		0.050	U	0.050	U	0.050	U	47	%	59	%	0.050	U
Hexachloroethane		0.050	U	0.050	U	0.050	U	74	%	82	%	0.050	U
Nitrobenzene		0.050	U	0.050	U	0.050	U	77	%	72	%	0.050	U
Hexachlorobutadiene		0.050	U	0.050	U	0.050	U	90	%	84	%	0.050	U
2,4,6-Trichlorophenol		0.050	U	0.050	U	0.050	U	79	%	79	%	0.050	U
2,4,5-Trichlorophenol		0.12	U	0.12	U	0.12	U	85	%	85	%	0.12	U
2,4-Dinitrotoluene		0.050	U	0.050	U	0.050	U	95	%	81	%	0.050	U
Hexachlorobenzene		0.050	U	0.050	U	0.050	U	92	%	83	%	0.050	U
Pentachlorophenol		0.12	U	0.12	U	0.12	U	119 *	%	108 *	%	0.12	U

*= Outside of EPA CLP QC limits.

000000009

000000010

	Cust ID:	SBLKUU BS		LCHBLK	
Sample Information	RFW#:	08LE0236-MB1		08LT0041-LB1	
	Matrix:	WATER		WATER	
	D.F.:	1.00		1.00	
	Units:	mg/L		mg/L	
Surrogate Recovery	Nitrobenzene-d5	92	%	71	%
	2-Fluorobiphenyl	101	%	71	%
	p-Terphenyl-d14	82	%	82	%
	Phenol-d5	23	%	14	%
	2-Fluorophenol	36	%	24	%
	2,4,6-Tribromophenol	101	%	73	%
Pyridine		41	%	0.050	U
1,4-Dichlorobenzene		84	%	0.050	U
2-Methylphenol		63	%	0.050	U
3/4-Methylphenol		57	%	0.050	U
Hexachloroethane		88	%	0.050	U
Nitrobenzene		89	%	0.050	U
Hexachlorobutadiene		95	%	0.050	U
2,4,6-Trichlorophenol		96	%	0.050	U
2,4,5-Trichlorophenol		102	%	0.12	U
2,4-Dinitrotoluene		92	%	0.050	U
Hexachlorobenzene		90	%	0.050	U
Pentachlorophenol		114 *	%	0.12	U

*= Outside of EPA CLP QC limits.

nville Laboratory Use Only

805L089

Custody Transfer Record/Lab Work Request

Page 1 of 1

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

VLI

00000011

nt TNU HANFORD SAF# RC-078 K 1162

Final Proj. Sampling Date

ect# 11343-606-001-9999-00

ect Contact/Phone#

ville Laboratory Project Manager O Johnson

SW846 Del STD TAT 7 days

Rec'd 5-9-08 Date Due 5-16-08

Refrigerator #									A 3											
#/Type Container	Liquid																			
	Solid								16											
Volume									125											
Preservatives									–											
ANALYSES REQUESTED →									ORGANIC							INORG				
									VOA	TCLP BNA	Pest/PCB	Herb	LEACHATE			Metal	CN			
									Lionville Laboratory Use Only											
										ITCLP			0625T							
Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected														
001	J16DJ5			S	3-12-08	1245			X											
002	J16DJ6			↓	↓	1253			X											
003	J16DJ7			↓	↓	1302			X											
004	J5 TCLP of 001			L	*								X							
005	J6 ↓ 002			↓	↓								X							
006	J7 ↓ 003			↓	↓								X							

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

cial Instructions:

Special Instructions:

1. Relog From Batch 0803L783-001, 002, 003
2.
3.
4.
5.
6.

* See Lab Chron

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
F	[signature]	5/9/08	0730								

e Laboratory Use Only

03L783

Custody Transfer Record/Lab Work Request

Page 1 of 1

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

VLI

TNU Hanford RC-073

al Proj. Sampling Date 11343-606-001-9999-00

Contact/Phone#

Laboratory Project Manager Orlette Johnson

U846 Del STD TAT 15 Days

c'd 3.20.08 Date Due 4-4-08

		A	B	C		
Refrigerator #		3	3	3		
#/Type Container	Liquid					
	Solid	1gl	1gl	1gl		
Volume		60	60	60		
Preservatives		—	—	—		
ANALYSES REQUESTED →		ORGANIC: VOA, BNA, Pest/PCB, Herb	INORG: TCLP Metal + Hg	CN	TOC	LEACHATE

Lionville Laboratory Use Only

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	ITCLP	ISFD ICNTO	IOCT	RCRA
001	J16DJ5			SO	3.12.08	1245	X		X	
002	J16DJ6			↓	↓	1253	X		X	
003	J16DJ7			↓	↓	1302	X	X	X	
004	J5TCLP05-001			L						X
005	J6 002			↓	↓					X
006	J7 003			↓	↓					X

Instructions:

Special Instructions:

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

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
DEx	[signature]	3.20.08						ORIGINAL REWRITTEN		"COMPOSITE WASTE"	

000000012

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-073-034	Page 1 of 1
tor .Shea D. Everhart/SEC	Company Contact D.W.Shea	Telephone No. 521-6014	Project Coordinator KESSNER, JH	Price Code 9K
t Designation -D/DR Burial Grounds & Remaining Sites - Other Solid Q	Sampling Location 118-D-3, anomaly 100D-AN-08-007		SAF No. RC-073	Data Turnaround 15 days
est No.	Field Logbook No. EL-1607-3	COA R118D32600	Method of Shipment Fed Ex	
ed To ERLINE SERVICES / LIONVILLE	Offsite Property No. See OPSC		Bill of Lading/Air Bill No.	

IBLE SAMPLE HAZARDS/REMARKS

ially radioactive

al Handling and/or Storage

Preservation	None	Cool 4C	None	None								
Type of Container	G	aG	G/P	G/P								
No. of Container(s)	1	1	1	1								
Volume	60mL	60mL	5g	60g								
SAMPLE ANALYSIS	See item (1) in Special Instructions	TOC - 415.1	Gross Alpha, Gross Beta	See item (2) in Special Instructions.								

DWShea 3/12/08

Sample No.	Matrix *	Sample Date	Sample Time										
	OTHER SOLID	3/12/08	1245.	✓	✓	✓	✓						

IAIN OF POSSESSION	Sign/Print Names	
ed By/Removed From Date/Time 1420 R. Everhart 3-12-08	Received By/Stored In Date/Time DWShea DWShea 3/12/08 1420	
ed By/Removed From Date/Time DWShea 3/12/08 1731	Received By/Stored In Date/Time Fridge 1B 3/12/08 1731	
ed By/Removed From 3/18/08 Date/Time 0930 1B MSTankovich 3/18/08	Received By/Stored In Date/Time 0930 MSTankovich 3/18/08	
ed By/Removed From Date/Time 1500 MSTankovich 3/18/08	Received By/Stored In Date/Time Fed Ex	
ed By/Removed From Date/Time Ex 3-20-08 0940	Received By/Stored In Date/Time D. Smith 3-20-08 0940	
ed By/Removed From Date/Time	Received By/Stored In Date/Time	

SPECIAL INSTRUCTIONS

(1) Metals by ICP (TCLP) - 1311/6010 [Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver]; Mercury (TCLP) - 1311/7470 [Mercury]
(2) RCF GEA Shipping Screen [Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155]

Matrix *
S = Soil
SL = 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

ATORY TION	Received By	Title	Date/Time
SAMPLE SITION	Disposal Method	Disposed By	Date/Time

000000013

nshington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-073-035	Page 1 of 1
or Shea D. Everhart/SEC	Company Contact D.W.Shea	Telephone No. 521-6014	Project Coordinator KESSNER, JH	Price Code 9K / Data Turnaround 15 days
Designation D/DR Burial Grounds & Remaining Sites - Other Solid Q	Sampling Location 118-D-3, anomaly 100D-AN-08-008		SAF No. RC-073	
st No.	Field Logbook No. EL-1607-3	COA R118D32600	Method of Shipment Fed Ex	
l To RLINE SERVICES / LIONVILLE	Offsite Property No. See OPSC		Bill of Lading/Air Bill No.	

BLE SAMPLE HAZARDS/REMARKS

ally radioactive

l Handling and/or Storage

Preservation				None	Cool 4C	None	None					
Type of Container				G	aG	G/P	G/P					
No. of Container(s)				1	1	1	1					
Volume				60mL	60mL	5g	60g					
SAMPLE ANALYSIS				See item (1) in Special Instructions.	TOC - 415.1	Gross Alpha Gross Beta	See item (2) in Special Instructions.					
Sample No.	Matrix *	Sample Date	Sample Time									
	OTHER SOLID	3/12/08	1253	✓	✓	✓	✓					

mwshen 3/12/08

HAIN OF POSSESSION		Sign/Print Names	
hed By/Removed From	Date/Time	Received By/Stored In	Date/Time
[signature] D. Everhart	3/12/08 1420	[signature] DWSHEA	3/12/08 1420
hed By/Removed From	Date/Time	Received By/Stored In	Date/Time
sha DWShe	3/12/08 1731	Fridge 1B	3/12/08 1731
hed By/Removed From	Date/Time	Received By/Stored In	Date/Time
o/1B	3/18/08 0930	[signature] mStankovich	3/18/08 0930
hed By/Removed From WCH	Date/Time	Received By/Stored In	Date/Time
[signature] mStankovich	3/18/08 1500	Fed Ex	
hed By/Removed From	Date/Time	Received By/Stored In	Date/Time
[signature] Ex	3-20-08 0940	[signature]	3-20-08 0940
hed By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

(1) Metals by ICP (TCLP) - 1311/6010 {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Mercury (TCLP) - 1311/7470 {Mercury}
(2) RCF GEA Shipping Screen {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

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

RATORY CTION	Received By	Title	Date/Time
SAMPLE OSITION	Disposal Method	Disposed By	Date/Time

000000014

/ashington Closure Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

RC-073-036 | Page 1 of 1

tor /.Shea D. Everhart \ SEC	Company Contact D.W.Shea	Telephone No. 521-6014	Project Coordinator KESSNER, JH
t Designation -D/DR Burial Grounds & Remaining Sites - Other Solid Q	Sampling Location 118-D-3, anomaly 100D-AN-08-009		SAF No. RC-073
est No. RCC-07-013	Field Logbook No. EL-1607-3	COA R118D32600	Method of Shipment Fed Ex
ed To ERLINE SERVICES / LIONVILLE	Offsite Property No. See OPSC NA		Bill of Lading/Air Bill No. NA

Price Code: 9K

Data Turnaround: 15 days (RCF 1 day)

SIBLE SAMPLE HAZARDS/REMARKS

tially radioactive

ial Handling and/or Storage

Preservation	None	Cool 4C	Cool 4C	None	None					
Type of Container	G	aG	G	G/P	G/P	G/P				
No. of Container(s)	1	1	1	1	1	1				
Volume	60mL	60mL	60mL	5g	60g	60g				
SAMPLE ANALYSIS	See item (1) in Special Instructions.	TOC - 415 L	Total Cyanide - 9010; Sulfides - 9030	Gross Alpha, Gross Beta	See item (2) in Special Instructions.	H^3 C^{14} Sr				

Mushen 3/12/08

Sample No.	Matrix *	Sample Date	Sample Time										
17	OTHER SOLID	3/12/08	1302	✓	✓	✓	✓	✓	✓				

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
[signature] D. Everhart	3-12-08 1420	DWSHEA DWShea	3/12/08 1420
/Shea DWShea	3/12/08 1731	Fridge 1B	3/12/08 1731
O/1B	3/18/08 0830	[signature] MStankovich	3/18/08 0830
WCH [signature] MStankovich	3/18/08 1600	Fed Ex	
Fed Ex	3.20.08 0940	[signature]	3.20.08 0940

SPECIAL INSTRUCTIONS

(1) Metals by ICP (TCLP) - 1311/6010 {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Mercury (TCLP) - 1311/7470 {Mercury}
(2) RCF GEA Shipping Screen {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

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

ORATORY CTION	Received By	Title	Date/Time
L SAMPLE POSITION	Disposal Method	Disposed By	Date/Time

EE-011

000000015

Lionville Laboratory Incorporated

SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: TNU Hanford
Project/SAF/SOW/Release #: RC-073

Date: 3-20-08

LvLI Batch #: 08031783

Sample Custodian: [illegible]

NOTE: EXPLAIN ALL DISCREPANCIES

1. Samples Hand Delivered or Shipped?	Carrier (Fed) Ex		Airbill # 7910 2400 5253 7904 7224 4716
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 3.1 °C 2.0 °C		Cooler # AFS-04-004 # RC-07-13
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.

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