



Lionville Laboratory, Inc.  
8015 ANALYTICAL DATA PACKAGE FOR  
TNUHANFORD F03-006 H2195

DATE RECEIVED: 05/03/03

LVL LOT # :0305L339

CLIENT ID	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B16W84	001	S	03LE0586	04/30/03	05/15/03	05/19/03
B16W85	002	S	03LE0586	04/30/03	05/15/03	05/19/03
B16W85	002 MS	S	03LE0586	04/30/03	05/15/03	05/19/03
B16W85	002 MSD	S	03LE0586	04/30/03	05/15/03	05/19/03

LAB QC:

BLK	MB1	S	03LE0586	N/A	05/15/03	05/20/03
BLK	MB1 BS	S	03LE0586	N/A	05/15/03	05/15/03

*2006/10/03*

Lionville Laboratory, Inc.  
8015 ANALYTICAL DATA PACKAGE FOR  
TNUHANFORD F03-006 H2195

DATE RECEIVED: 05/07/03

LVL LOT # :0305L357

CLIENT ID	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B16W86	001	S	03LE0586	05/05/03	05/15/03	05/19/03
LAB QC:						
BLK	MB1	S	03LE0586	N/A	05/15/03	05/20/03
BLK	MB1 BS	S	03LE0586	N/A	05/15/03	05/15/03

*Handwritten signature/initials*

Lionville Laboratory, Inc.  
8015 ANALYTICAL DATA PACKAGE FOR  
TNUHANFORD F03-006 H2195

DATE RECEIVED: 05/08/03

LVL LOT # :0305L366

CLIENT ID	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B16W87	001	S	03LE0586	05/06/03	05/15/03	05/19/03

LAB QC:

BLK	MB1	S	03LE0586	N/A	05/15/03	05/20/03
BLK	MB1 BS	S	03LE0586	N/A	05/15/03	05/15/03

*9/20/03*

Lionville Laboratory, Inc.  
8015 ANALYTICAL DATA PACKAGE FOR  
TNUHANFORD F03-006 H2195

DATE RECEIVED: 05/09/03

LVL LOT # :0305L372

CLIENT ID	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B16W88	001	SO	03LE0586	05/07/03	05/15/03	05/19/03

LAB QC:

BLK	MB1	S	03LE0586	N/A	05/15/03	05/20/03
BLK	MB1 BS	S	03LE0586	N/A	05/15/03	05/15/03

*Handwritten signature/initials*



## Analytical Report

**Client:** TNU-HANFORD F03-006  
**LVL #:** 0305L339, 0305L357,  
 0305L366, 0305L372

**W.O. #:** 11343-606-001-9999-00  
**Date Received:** 05-03,07,08,09-2003  
**SDG/SAF #** H2195/F03-006

**GC SCAN**

Five (5) soil/solid samples were collected on 04-30-2003 and 05-05,06,07-2003.

The samples and their associated QC samples were prepared according to method 3580A (waste dilution-1g into 5mL) on 05-15-2003 and analyzed according to Lionville Laboratory OPs based on SW846, 3rd Edition procedures based on method 8015B on 05-15,19,20-2003 for Ethylene Glycol.

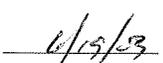
The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analyses:

1. All results presented in this report are derived from samples that met LVL's sample acceptance policy.
2. Samples associated with LVL # 0305L339 were extracted outside the holding time. A copy of the Sample Discrepancy Report (SDR) has been enclosed.
3. Surrogates are not currently employed in the methodology.
4. The blank spike recovery was within acceptance criteria.
5. The matrix spike recoveries were within acceptance criteria.
6. All initial calibrations associated with this data set were within acceptance criteria.
7. All continuing calibration standards analyzed prior to sample extracts were within acceptance criteria.
8. 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

  
 Date

r:\group\data\gsc\tnu\0305w339,357,366,372.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 2 5 pages.

Lionville Laboratory Sample Discrepancy Report (SDR)

SDR #: 0360198.

Initiator: John Luch
Date: 6/15/03
Client: TNU

Batch: 03054329, 335, 357, 366, 372
Samples: All 329, All
Method: SW846/MCAVW/CLP/

Parameter: 0605C EG.
Matrix: SO-1
Prep Batch: 0320586.

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)

1) Samples 329, 1-6 extracted 2 days past hold.

2) There was a h.t. in the blank above the reporting limit.
N/A for samples

2. Known or Probable Causes(s)

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:

Narrate.
2) No hits in samples.
Blank was rechecked 5/20/03.
JLB/SLM

Signature: [Handwritten Signature] 6/16/03

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:

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

Other Explanation:

When Final Action has been recorded, forward original to QA Specialist for distribution and filing.

Route Distribution of Completed SDR
X Initiator
X Lab General Manager: M. Taylor
X Project Mgr: Stone/Johnson/Haslett
X Technical Mgr: Wesson/Daniels
X QA (file)
Data Management: Feldman
Sample Prep: Beegle/Kiger

Route Distribution of Completed SDR
Metals: Beegle
Inorganic: Perrone
GC/LC: Kiger
MS: Rychlak/Layman
Log-in: Melnic
Admin: Soos
Other:



## GLOSSARY OF GC SCAN 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.

### 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.
- SP** = Indicates Spiked Compound.



GLOSSARY OF GC SCAN DATA

- P** = This flag is used for an GC SCAN target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form I 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 SCAN.



RFW Batch Number: 0305L357

Client: TNUHANFORD P03-006 H2195 Work Order: 11343606001 Page: 1

Cust ID: B16W86 BLK BLK BS

Sample Information	RFW#:	001	031E0586-MB1	031E0586-MB1
	Matrix:	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.00
	Units:	ug/Kg	ug/Kg	ug/Kg

Ethylene Glycol	24.0	U	25.0	U	108	%
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99200000

H2195 - 8015 RESULTS

*Handwritten signature/initials*

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not reported. NS= Not spiked.  
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. \*= Outside of EPA CLP QC

RFW Batch Number: 0305L366

Client: TNUHANFORD F03-006 H2195 Work Order: 11343606001

Report Date: 06/19/03 15:47 Page: 1

Lionville Laboratory, Inc.

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Sample Information	Cust ID:	B16W87	BLK	BLK BS
	RFW#:	001	031E0586-MB1	031E0586-MB1
	Matrix:	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.00
	Units:	ug/Kg	ug/Kg	ug/Kg

Ethylene Glycol	21.0	U	25.0	U	108	%
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00000257

H2195 - 8015 RESULTS

*Handwritten signature*

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not reported. NS= Not spiked.  
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. \*= Outside of EPA CUP QC

Lionville Laboratory, Inc.  
 Nonhalogenated Volatiles by GC, Method 8015  
 Report Date: 06/19/03 15:48

RFW Batch Number: 03051372      Client: TNUHANFORD F03-006 H2195      Work Order: 11343606001      Page: 1

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Cust ID:	B16W88	BLK	BLK BS
Sample Information	RFW#: 001	031E0586-MB1	031E0586-MB1
	Matrix: SOLID	SOIL	SOIL
	D.F.: 1.00	1.00	1.00
	Units: ug/Kg	ug/Kg	ug/Kg

Ethylene Glycol	25.0	U	25.0	U	108	%
-----------------	------	---	------	---	-----	---

*Handwritten signature*

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not reported. NS= Not spiked.  
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. \*= Outside of EPA CLP QC

# Custody Transfer Record/Lab Work Request



FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

0305L339

Client TDU-Hanford FO3-006

Est. Final Proj. Sampling Date 11343-606-001-9999-00

Project # 11343-606-001-9999-00

Project Contact/Phone # Orlante Johnson

Lionville Laboratory Project Manager Orlante Johnson

QC SPC Del STD TAT 30 days

Date Rec'd 5-3-03 Date Due 6-16-03

MATRIX CODES:	Lab ID	Client ID/Description	Matrix QC Chosen (✓)	MS	MSD
S - Soil	001	B16W84			
SE - Sediment	002	B16W85			
SO - Solid					
SL - Sludge					
W - Water					
O - Oil					
A - Air					
DS - Drum					
Solids					
DL - Drum					
Liquids					
L - EP/CLP					
Leachate					
WI - Wipe					
X - Other					
F - Fish					

Matrix QC Chosen (✓)	Matrix	Date Collected	Time Collected
	S	4-30-03	0900
	L	L	1338

Special Instructions: SAF # FO3-006

Per Client Due Date: 6-16-03

Both QC For L339, 357, 366, 372

DATE/REVISIONS: 5-14-03

ADD As, A, B, Ba, Ba, Bi, Cd, Cr, Cu, Hs,

Ni, Pb, Sb, Se, Fe, Cl, F, NO<sub>3</sub>, NO<sub>2</sub>, P, U, SO<sub>4</sub>

INHBN TPH, DRYH, O625X, O645C, OPRB

ODRO OGRRO

Refrigerator #	#Type Container		Volume	Preservatives	ANALYSES REQUESTED	ORGANIC					IONORG		
	Liquid	Solid				Liquid	Solid	VOA	BNA	Pes/PCB	Herb	Metal	NO

Matrix	Date Collected	Time Collected	ICR1	IC32L	IOGGR
S	4-30-03	0900	X	X	X
L	L	1338	X	X	X

Relinquished by	Received by	Date	Time
<u>Deola</u>	<u>Wynith</u>	<u>5-3-03</u>	<u>11:00</u>

Relinquished by	Received by	Date	Time
<u>COMPOSITE WASTE</u>	<u>ORIGINAL</u>		
<u>REWRITTEN</u>			

Discrepancies Between Samples Labels and COC Record?  Y or  N

5) Received Within Holding Times  Y or  N

Cooler 0.6 °C

**Lionville Laboratory Use Only**

Samples were:  1) Shipped  or  Hand Delivered

Attrib # 7907 6589 3774

2) Ambient or  Packed

3) Received in Good Condition  or  N

4) Samples Properly Preserved  or  N

5) Unbroken on Sample  or  N

COC Record Present Upon Sample Rec't  or  N

Temp. 0.6 °C

F2105 8015 RESULTS



<b>FH-Central Plateau Project</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>		F03-006-68	Page 1 of 1
Collector Johansen/Pepe/Pfister	Company Contact LC Hulstrom	Telephone No. 373-3928	Project Coordinator TRENT, SJ	Price Code 8N	Data Turnaround 45 Days
Project Designation 200-PW-2/200-PW-4 OU - Borehole Soil Sampling	Sampling Location 216-A-37 (C4106); (97.5-100)	Field Logbook No. HNF-N-3361	Method of Shipment Federal Express	Air Quality <input type="checkbox"/>	
Ice Chest No. ERC 01-038	Field Logbook No. HNF-N-3361	COA 117504ES10	Bill of Lading/Air Bill No. SEA 05PC		

Shipped To  
EBERLINE SERVICES (Formerly TMA) 4/22/03

POSSIBLE SAMPLE HAZARDS/REMARKS  
Radioactive

Special Handling and/or Storage  
cool yoc

Preservation	Cool 4C	Cool 4C	Cool 4C	None	None
Type of Container	aG	aG	aG	aG	aG
No. of Container(s)	1	1	1	1	1
Volume	120mL	60mL	120mL	60mL	60mL
Chromium Hex. 7196		NO2/NO3 - 353.2	Oil & Grease - 413.1	See item (1) in Special Instructions	Tritium - HD

Sample No.	Matrix *	Sample Date	Sample Time							
B16W85	SOIL	4-30-03	1728	X	X	X				BLUDDI

**CHAIN OF POSSESSION**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time	Sign/Print Names
Relinquished By/Removed From M. Johnson	Date/Time 4/30/03 1430	Received By/Stored In R. Cook	Date/Time 4/30/03 1430	
Relinquished By/Removed From R. Cook	Date/Time 4.30.03	Received By/Stored In LB	Date/Time 4.30.03	
Relinquished By/Removed From LB	Date/Time 5-2-03	Received By/Stored In R. Cook	Date/Time 5-2-03	
Relinquished By/Removed From R. Cook	Date/Time 5-2-03	Received By/Stored In R. Cook	Date/Time 5-2-03	
Relinquished By/Removed From R. Cook	Date/Time 5-2-03	Received By/Stored In R. Cook	Date/Time 5-2-03	
Relinquished By/Removed From R. Cook	Date/Time 5-2-03	Received By/Stored In R. Cook	Date/Time 5-2-03	

**LABORATORY SECTION**

Received By: \_\_\_\_\_ Title: \_\_\_\_\_

**FINAL SAMPLE DISPOSITION**

Disposed By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

**SPECIAL INSTRUCTIONS** 9/22/03

The laboratory is to determine a detection limit of 500 pCi/g for Carbon-14. \*\* The laboratory is to report both kerene and diesel range compounds from WTPH-D analysis.

(1) Tritium - 99 - Strontium - 89, 90 - Total Sr. Isotopic Thorium (Thorium-232); Carbon-14; Iodine-129; Methylmercury; Methylmercury-237

4/22/03 9/22/03

BH-EE-011 (03/01/2002)

LIONVILLE LABORATORY INCORPORATED  
 SAMPLE RECEIPT CHECKLIST

CLIENT: *TNU Hartford*  
 Purchase Order/Project:

DATE: *5-3-03*

AF# / SOW# / Release #: *F03-006*

Laboratory SDG #: *0305L339*

NOTE: ALL ENTRIES MARKED "NO" MUST BE EXPLAINED IN THE COMMENT SECTION

- |  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A        | <input type="checkbox"/> see Comment # |
|--|---|-----------------------------|-------------------------------------|--|
| 1. Custody seals on coolers or shipping container intact, signed and dated?  | <input checked="" type="checkbox"/>     | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 2. Outside of coolers or shipping containers are free from damage?   | <input checked="" type="checkbox"/>     | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 3. Airbill # recorded?   | <input checked="" type="checkbox"/>     | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 4. All expected paperwork received (coc and other client specific: historical data, alpha/beta or other screening data as applicable)? (paperwork sealed in plastic bag and taped to inside lid) | <input checked="" type="checkbox"/>     | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 5. Sample containers are intact?   | <input checked="" type="checkbox"/>     | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 6. Custody seals on sample containers intact, signed and dated?  | <input checked="" type="checkbox"/>     | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 7. All samples on coc received?  | <input checked="" type="checkbox"/>     | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 8. All sample label information matches coc?   | <input checked="" type="checkbox"/>     | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 9. Laboratory QC samples designated on coc? (QC stickers placed on bottles?)   | <input type="checkbox"/>                | <input type="checkbox"/>    | <input checked="" type="checkbox"/> | <input type="checkbox"/>               |
| 10. Shipment meets LVLJ Sample Acceptance Policy? (identify all bottles not within policy. See reverse side for policy)  | <input checked="" type="checkbox"/>     | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 11. Where applicable, bar code labels are affixed to coc?  | <input type="checkbox"/>                | <input type="checkbox"/>    | <input checked="" type="checkbox"/> | <input type="checkbox"/>               |
| 12. coc signed and dated?  | <input checked="" type="checkbox"/>     | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 13. coc will be faxed or emailed to client?  | <input checked="" type="checkbox"/>     | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 14. Project Manager/Client contacted concerning discrepancies? (name/date)   | <input type="checkbox"/>                | <input type="checkbox"/>    | <input checked="" type="checkbox"/> | <input type="checkbox"/>               |

Cooler # / temp (°C) and Comments:  
*ERC 01-038 / 0.6 °C*

Laboratory Sample Custodian: *[Signature]*  
 Laboratory Project Manager: *[Signature]*



49200000

**FH-Central Plateau Project**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

Project Designation: 200-PW-2/200-PW-4 OU - Borehole Soil Sampling

Collector: Johansen/Pope/Pfister

Company Contact: LC Hulstrom

Telephone No.: 373-3928

Project Coordinator: TRENT, SJ

Price Code: 8N

Data Turnaround: 45 Days

Project Location: 216-A-37 (C4106); (147 5-150)

Sampling Location: 216-A-37 (C4106); (147 5-150)

Field Logbook No.: HNF-N-3361

COA: 117504ES10

Method of Shipment: Federal Express

SAF No.: F03-006

Air Quality:

Bill of Lading/Air Bill No.: SEFE 05R

F03-006-69 Page 1 of 1

Shipped To: **EBERHARDT SERVICES (Formerly TMA)** 4/22/03

POSSIBLE SAMPLE HAZARDS/REMARKS: *See to B16 WDO*

Special Handling and/or Storage: *cool yoc*

Ice Chest No.: *FE 01-0163*

Offsite Property No.: *B03B 222*

Preservation: Cool 4C

Type of Container: aG

No. of Container(s): 1

Volume: 120ml

Chromium Hex - 7196

NO2/NO3 - 353.2

Oil & Grease - 413.1

See item (I) in Special Instructions

Tritium - H3

**SAMPLE ANALYSIS**

Sample No.	Matrix *	Sample Date	Sample Time	Chromium Hex - 7196	NO2/NO3 - 353.2	Oil & Grease - 413.1	Tritium - H3
B16W86	SOIL	5/5/3	0900	✓	✓	✓	✓

**CHAIN OF POSSESSION**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
<i>RECEIVED BY: [Signature]</i>	<i>1315</i>	<i>REF 1A</i>	<i>5-5-03 1315</i>
<i>1A 3728</i>	<i>5-6-03 1000</i>	<i>RECEIVED BY: [Signature]</i>	<i>5-6-03</i>
<i>Scale</i>	<i>5-6-03</i>	<i>RECEIVED BY: [Signature]</i>	<i>5-6-03</i>
<i>Scale</i>	<i>5-7-03 10:10</i>	<i>RECEIVED BY: [Signature]</i>	<i>5-7-03 10:10</i>
<i>Scale</i>	<i>5-7-03 10:10</i>	<i>RECEIVED BY: [Signature]</i>	<i>5-7-03 10:10</i>

**SPECIAL INSTRUCTIONS**

The laboratory is to achieve a detection limit of 50.0 µg/g for Carbon-14. \*\* The laboratory is to report both kerene and diesel range compounds from WTRD analysis.

(+) Tritium-3, Strontium-89, 90, Total Strontium, Thorium (Thorium-232), Carbon-14, TCHB-129, Nickel-63, Neptunium-237

*Personnel not available to relinquish samples from the 3728 Ref # 1A on 5/16/03*

**LABORATORY SECTION**

Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

**FINAL SAMPLE DISPOSITION**

Disposal Method: \_\_\_\_\_ Date/Time: \_\_\_\_\_

# LIONVILLE LABORATORY INCORPORATED SAMPLE RECEIPT CHECKLIST

CLIENT: TNU Hanford  
Purchase Order/Project:

DATE: 5.7.03

AF# / SOW# / Release #: FO 3-006

Laboratory SDG #: 03054357

NOTE: ALL ENTRIES MARKED "NO" MUST BE EXPLAINED IN THE COMMENT SECTION

- |  |   |                             |   |  |
|--|---|-----------------------------|---|--|
| 1. Custody seals on coolers or shipping container intact, signed and dated?  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A            | <input type="checkbox"/> see Comment # |
| 2. Outside of coolers or shipping containers are free from damage?   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A            | <input type="checkbox"/> see Comment # |
| 3. Airbill # recorded?   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A            | <input type="checkbox"/> see Comment # |
| 4. All expected paperwork received (coc and other client specific: historical data, alpha/beta or other screening data as applicable)? (paperwork sealed in plastic bag and taped to inside lid) | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A            | <input type="checkbox"/> see Comment # |
| 5. Sample containers are intact?   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A            | <input type="checkbox"/> see Comment # |
| 6. Custody seals on sample containers intact, signed and dated?  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A            | <input type="checkbox"/> see Comment # |
| 7. All samples on coc received?  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No | <input type="checkbox"/> N/A            | <input type="checkbox"/> see Comment # |
| 8. All sample label information matches coc?   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A            | <input type="checkbox"/> see Comment # |
| 9. Laboratory QC samples designated on coc? (QC stickers placed on bottles?)   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A            | <input type="checkbox"/> see Comment # |
| 10. Shipment meets LVLJ Sample Acceptance Policy? (identify all bottles not within policy. See reverse side for policy)  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A            | <input type="checkbox"/> see Comment # |
| 11. Where applicable, bar code labels are affixed to coc?  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A | <input type="checkbox"/> see Comment # |
| 12. coc signed and dated?  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A            | <input type="checkbox"/> see Comment # |
| 13. coc will be faxed or emailed to client?  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A            | <input type="checkbox"/> see Comment # |
| 14. Project Manager/Client contacted concerning discrepancies? (name/date)   | <input type="checkbox"/> Yes            | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A | <input type="checkbox"/> see Comment # |

Cooler # / temp (°C) and Comments:

# ECC-01-063 / 2.3

Laboratory Sample Custodian:

Laboratory Project Manager:

00000265



03051366

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Client TNU-Hanford FOS-006

Est. Final Proj. Sampling Date 11343-606-001-9999-00

Project # 11343-606-001-9999-00

Project Contact/Phone # Dalete Johnson

Lionville Laboratory Project Manager Dalete Johnson

QC SPEC Del 5-12 TAT 30 days

Date Rec'd 5-8-03 Date Due 6-16-03

Refrigerator #	#/Type Container		Volume	Preservatives	ANALYSES REQUESTED	ORGANIC					METAL		
	Liquid	Solid				VOA	BNA	Pes/PCB	Herb	INORG	NO		

Lionville Laboratory Use Only

MATRIX CODES:	Lab ID	Client ID/Description	Matrix OC Chosen (✓)		Matrix	Date Collected	Time Collected	MS		MSD
			MS	MSD						
S - Soil	001	BIL081	X	X	S	5-6-03	0945			
SE - Sediment										
SO - Solid										
SL - Sludge										
W - Water										
O - Oil										
A - Air										
DS - Drum										
DL - Drum										
L - Liquids										
EP/TC/LP										
L - Leachate										
WI - Wipe										
X - Other										
F - Fish										

Special Instructions: SAF # F03-006

DATE/REVISIONS: 5-14-03 1. Per Client Due Date: 6-16-03

Both OC for L339, 357, 366, 372

ADD: A<sub>1</sub>, A<sub>2</sub>, B<sub>1</sub>, B<sub>2</sub>, B<sub>3</sub>, B<sub>4</sub>, B<sub>5</sub>, B<sub>6</sub>, B<sub>7</sub>, C<sub>1</sub>, C<sub>2</sub>, C<sub>3</sub>, H<sub>1</sub>, H<sub>2</sub>, H<sub>3</sub>, H<sub>4</sub>, H<sub>5</sub>, H<sub>6</sub>, H<sub>7</sub>, H<sub>8</sub>, H<sub>9</sub>, H<sub>10</sub>, H<sub>11</sub>, H<sub>12</sub>, H<sub>13</sub>, H<sub>14</sub>, H<sub>15</sub>, H<sub>16</sub>, H<sub>17</sub>, H<sub>18</sub>, H<sub>19</sub>, H<sub>20</sub>, H<sub>21</sub>, H<sub>22</sub>, H<sub>23</sub>, H<sub>24</sub>, H<sub>25</sub>, H<sub>26</sub>, H<sub>27</sub>, H<sub>28</sub>, H<sub>29</sub>, H<sub>30</sub>, H<sub>31</sub>, H<sub>32</sub>, H<sub>33</sub>, H<sub>34</sub>, H<sub>35</sub>, H<sub>36</sub>, H<sub>37</sub>, H<sub>38</sub>, H<sub>39</sub>, H<sub>40</sub>, H<sub>41</sub>, H<sub>42</sub>, H<sub>43</sub>, H<sub>44</sub>, H<sub>45</sub>, H<sub>46</sub>, H<sub>47</sub>, H<sub>48</sub>, H<sub>49</sub>, H<sub>50</sub>, H<sub>51</sub>, 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H<sub>983</sub>, H<sub>984</sub>, H<sub>985</sub>, H



# LIONVILLE LABORATORY INCORPORATED SAMPLE RECEIPT CHECKLIST

CLIENT: TNU Hanford  
Purchase Order/Project:

DATE: 5.8.03

AF# / SOW# / Release #: F03-006

Laboratory SDG #: 0305L366

NOTE: ALL ENTRIES MARKED "NO" MUST BE EXPLAINED IN THE COMMENT SECTION

- |  | <input type="checkbox"/> Yes        | <input type="checkbox"/> No | <input type="checkbox"/> N/A        | <input type="checkbox"/> see Comment # |
|--|-------------------------------------|-----------------------------|-------------------------------------|--|
| 1. Custody seals on coolers or shipping container intact, signed and dated?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 2. Outside of coolers or shipping containers are free from damage?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 3. Airbill # recorded?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 4. All expected paperwork received (coc and other client specific: historical data, alpha/beta or other screening data as applicable)? (paperwork sealed in plastic bag and taped to inside lid) | <input checked="" type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 5. Sample containers are intact?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 6. Custody seals on sample containers intact, signed and dated?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 7. All samples on coc received?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 8. All sample label information matches coc?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 9. Laboratory QC samples designated on coc? (QC stickers placed on bottles?)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 10. Shipment meets LvLl Sample Acceptance Policy? (identify all bottles not within policy. See reverse side for policy)  | <input checked="" type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 11. Where applicable, bar code labels are affixed to coc?  | <input type="checkbox"/>            | <input type="checkbox"/>    | <input checked="" type="checkbox"/> | <input type="checkbox"/>               |
| 12. coc signed and dated?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 13. coc will be faxed or emailed to client?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/>            | <input type="checkbox"/>               |
| 14. Project Manager/Client contacted concerning discrepancies? (name/date)   | <input type="checkbox"/>            | <input type="checkbox"/>    | <input checked="" type="checkbox"/> | <input type="checkbox"/>               |

Cooler # / temp (°C) and Comments:

# ERC 99-022 / 2.0°

Laboratory Sample Custodian:

*[Signature]*

Laboratory Project Manager:



**FH-Central Plateau Project**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

F03-006-71 Page 1 of 1

Collector: Johansen/Pope/Fister

Company Contact: LC Hulstrom

Telephone No.: 373-3928

Project Coordinator: TRENT, SJ

Price Code: 8N

Data Turnaround: 45 Days

Project Designation: 200-PW-2/200-PW-4 OU - Borehole Soil Sampling

Sampling Location: 216-A-37 (C4106), (237.5'-240')

Field Logbook No.: HNF-N-3361

COA: 11750AES10

Method of Shipment: Federal Express

Air Quality:

Ice Chest No.: ERG-01-01/3

Offsite Property No.:

Bill of Lading/Air Bill No.: See OSR

Shipped To: EBERLINE SERVICES (formerly TMA) 4/22/03

POSSIBLE SAMPLE HAZARDS/REMARKS:

Special Handling and/or Storage

Preservation	Cool 4C	Cool 4C	Cool 4C	None	None
Type of Container	aG	aG	aG	aG	aG
No. of Container(s)	1	1	1	1	1
Volume	120mL	60mL	120mL	60mL	60mL
	Chromium Hex - 7196	NO2/NO3 - 3532	Oil & Grease - 413.1	See item (1) for Special Instructions	Tritium - H3

SAMPLE ANALYSIS

Sample No.	Matrix *	Sample Date	Sample Time						
B16WB8	SOIL	5-7-03	1050	X	X	X			

CHAIN OF POSSESSION

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
3728 Det 1B	5/8/03 0830	Received By/Stored In	5/8/03 0830
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
3728 Det 1B	5/8/03 0830	Received By/Stored In	5/8/03 0830
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
FEDEX	5-9-03 0930	Received By/Stored In	5-9-03 0930

SPECIAL INSTRUCTIONS

\*\*\*The laboratory is to achieve a detection limit of 500 pCi/g for Carbon-14. \*\* The laboratory is to report both kerosene and diesel range compounds from WTPH-D analysis.

(1) Technetium-99, Strontium-89, 90 -- Total Sr. Isotopic Thorium (Thorium-232), Carbon-14, technetium-129, Nickel-63, Neptunium-237

Personnel not available to relinquish samples from the 3728 Ref # 1B on 5/8/03

Sign/Print Names

Received By/Stored In: SSPACE, Mabel

Received By/Stored In: REF 1B, 3728

LABORATORY SECTION

Received By: Disposed By:

Disposal Method

BH-EE-011 (03/01/2002)

# LIONVILLE LABORATORY INCORPORATED SAMPLE RECEIPT CHECKLIST

CLIENT: TNU HANFORD  
Purchase Order/Project:

DATE: 5-9-03

RF# / SOW# / Release #: F03-006

Laboratory SDG #: 0305L372

NOTE: ALL ENTRIES MARKED "NO" MUST BE EXPLAINED IN THE COMMENT SECTION

	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<input type="checkbox"/> see Comment #
1. Custody seals on coolers or shipping container intact, signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Outside of coolers or shipping containers are free from damage?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Airbill # recorded?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. All expected paperwork received (coc and other client specific: historical data, alpha/beta or other screening data as applicable)? (paperwork sealed in plastic bag and taped to inside lid)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Sample containers are intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Custody seals on sample containers intact, signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. All samples on coc received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. All sample label information matches coc?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Laboratory QC samples designated on coc? (QC stickers placed on bottles?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Shipment meets LVLJ Sample Acceptance Policy? (identify all bottles not within policy. See reverse side for policy)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Where applicable, bar code labels are affixed to coc?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. coc signed and dated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. coc will be faxed or emailed to client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Project Manager/Client contacted concerning discrepancies? (name/date)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Cooler # / temp (°C) and Comments:

1.5°  
ERC 01-040

Laboratory Sample Custodian: *Carl King*

Laboratory Project Manager: