

RECEIVED JUNE 24, 2008

Lionville Laboratory, Inc.  
INORGANIC ANALYTICAL DATA PACKAGE FOR  
TNU-HANFORD F08-066 43699

DATE RECEIVED: 04/24/08

LVL LOT # :0804L988

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B1TFC3						
% SOLIDS	001	S	08L%S041	04/03/08	04/25/08	04/26/08
% SOLIDS	001 REP	S	08L%S041	04/03/08	04/25/08	04/26/08
CHROMIUM VI	001	S	08LVI039	04/03/08	04/28/08	04/28/08
CHROMIUM VI	001 REP	S	08LVI039	04/03/08	04/28/08	04/28/08
CHROMIUM VI	001 MS	S	08LVI039	04/03/08	04/28/08	04/28/08
CHROMIUM VI	001 MSD	S	08LVI039	04/03/08	04/28/08	04/28/08
SULFIDE	001	S	08LSD030	04/03/08	04/28/08	04/28/08
SPECIFIC CONDUCTANCE	001	S	08LSP008	04/03/08	04/30/08	04/30/08
SPECIFIC CONDUCTANCE	001 REP	S	08LSP008	04/03/08	04/30/08	04/30/08

B1TFC6

CHROMIUM VI	002	S	08LVI039	04/10/08	04/28/08	04/28/08
SULFIDE	002	S	08LSD030	04/10/08	04/28/08	04/28/08
SPECIFIC CONDUCTANCE	002	S	08LSP008	04/10/08	04/30/08	04/30/08

B1TFC9

CHROMIUM VI	003	S	08LVI039	04/10/08	04/28/08	04/28/08
SULFIDE	003	S	08LSD030	04/10/08	04/28/08	04/28/08
SULFIDE	003 REP	S	08LSD030	04/10/08	04/28/08	04/28/08
SULFIDE	003 MS	S	08LSD030	04/10/08	04/28/08	04/28/08
SPECIFIC CONDUCTANCE	003	S	08LSP008	04/10/08	04/30/08	04/30/08

LAB QC:

CHROMIUM VI	MB1	S	08LVI039	N/A	04/28/08	04/28/08
CHROMIUM VI	MB1 BS	S	08LVI039	N/A	04/28/08	04/28/08
CHROMIUM VI	MB1 BSD	S	08LVI039	N/A	04/28/08	04/28/08
SULFIDE	MB1	S	08LSD030	N/A	04/28/08	04/28/08
SULFIDE	MB1 BS	S	08LSD030	N/A	04/28/08	04/28/08
SULFIDE	MB1 BSD	S	08LSD030	N/A	04/28/08	04/28/08
SPECIFIC CONDUCTANCE	MB1	W	08LSP008	N/A	04/30/08	04/30/08
SPECIFIC CONDUCTANCE	MB1 BS	W	08LSP008	N/A	04/30/08	04/30/08

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Analytical Report

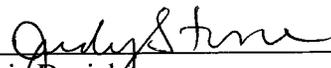
Client: TNU-HANFORD F08-066 H3699  
LVL#: 0804L988

W.O.#: 11343-606-001-9999-00  
Date Received: 04-24-08

INORGANIC NARRATIVE

1. This narrative covers the analyses of 3 soil samples.
2. The samples were prepared and analyzed in accordance with the methods checked on the attached glossary.  

LvLI is NELAP accredited by the State of Pennsylvania. For a complete list of accrediting authorities and the corresponding analytes/methods, please contact your Project Manager. LvLI certifies that all test results meet the requirements of NELAC with any exception noted in the following statements.
3. Sample holding times as required by the method and/or contract were met.
4. The results presented in this report are derived from samples that met LvLI's sample acceptance policy.
5. The method blanks were within the method criteria.
6. The Laboratory Control Samples (LCS) were within the laboratory control limits. The duplicate LCS for Sulfide was within the 20% Relative Percent Difference (RPD) control limit.
7. The matrix spike recoveries were within the 75-125% control limits.
8. The replicate analyses were within the 20% RPD control limit.
9. Results for soil samples are reported on a dry weight basis.
10. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard copy package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

  
Iain Daniels  
Laboratory Manager  
Lionville Laboratory Incorporated

6/16/08  
Date

njpl04-988

The results presented in this report relate to the analytical testing and conditions of the samples upon 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 14 pages.

**Lionville Laboratory Incorporated**

**WET CHEMISTRY**

**METHODS GLOSSARY FOR SOIL/SOLIDS SAMPLE ANALYSIS**

	<u>ASTM</u>	<u>SW846</u>	<u>OTHER</u>
% Ash	___ D2216-80		
% Moisture	___ D2216-80		___ ILMO4.0 (e)
% Solids	<input checked="" type="checkbox"/> D2216-80		___ ILMO4.0 (e)
% Volatile Solids	___ D2216-80		
ASTM Extraction in Water	___ D3987-81/85		
BTU	___ D240-87		
CEC		___ 9081	___ c
Chromium VI		<input checked="" type="checkbox"/> 3060A/7196A	
Corrosivity ___ by coupon ___ by pH		___ 1110(mod) ___ 9045C	
Cyanide, Total		___ 9010B	___ ILMO4.0 (e)
Cyanide, Reactive		___ Section 7.3/9014	
Halides, Extractable Organic		___ 9020B	___ EPA 600/4/84-008
Halides, Total		___ 9020B	___ EPA 600/4/84-008
EP Toxicity		___ 1310A	
Flash Point		___ 1010	
Ignitability		___ 1010	
Oil & Grease		___ 9071A	
Carbon, Total Organic		___ 9060	___ Lloyd Kahn (mod)
Oxygen Bomb Prep for Anions	___ D240-87(mod)	___ 5050	
Petroleum Hydrocarbons, Total Recoverable		___ 9071	___ EPA 418.1
pH, Soil		___ 9045C	
Sulfide, Reactive		___ Section 7.3/9030B	
Sulfide		<input checked="" type="checkbox"/> 9030B(mod)/9034	
Specific Gravity	___ D1429-76C/	___ D5057-90	
Sulfur, Total		___ 9056	
Synthetic Preparation Leach		___ 1312	
Paint Filter		___ 9095A	
Other: <i>Specific Conductance</i>	Method: <i>SW9050A (mod.)</i>		
Other:	Method		

# Lionville Laboratory Incorporated

## 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  
LC = Laboratory Control Sample.  
NC = Not calculated.

A suffix of -R, -S, or -T following these codes indicate a replicate, spike or sample duplicate analysis respectively.

### ANALYTICAL WET CHEMISTRY METHODS

1. ASTM Standard Methods.
2. USEPA Methods for Chemical Analysis of Water and Wastes (USEPA 600/4-79-020).
3. Test Methods for Evaluating Solid Waste (USEPA SW-846).
  - a. Standard Methods for the Examination of Water and Waste, 16 ed, (1983).
  - b. Standard Methods for the Examination of Water and Waste, 17 ed, (1989)/18ed (1992).
  - c. Method of Soil Analysis, Part 1, Physical and Mineralogical Methods, 2nd ed, (1986).
  - d. Method of Soil Analysis, Part 2, Chemical and Microbiological Properties, Am. Soc. Agron., Madison, WI (1965).
  - e. USEPA Contract Laboratory Program, Statement of Work for Inorganic Analysis.
  - f. Code of Federal Regulations.

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 05/01/08

CLIENT: TNU-HANFORD F08-066  
 WORK ORDER: 11343-606-001-9999-00

LVL LOT #: 0804L988

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-001	B1TFC3	% Solids	88.4	%	0.01	1.0
		Chromium VI	0.23	u MG/KG	0.23	1.0
		Sulfide	28.2	u MG/KG	28.2	1.0
		Specific Conductance	79.5	UMHOS/C	1.0	1.0
-002	B1TFC6	Chromium VI	0.20	u MG/KG	0.20	1.0
		Sulfide	37.7	u MG/KG	37.7	1.0
		Specific Conductance	70.3	UMHOS/C	1.0	1.0
-003	B1TFC9	Chromium VI	0.20	u MG/KG	0.20	1.0
		Sulfide	39.9	u MG/KG	39.9	1.0
		Specific Conductance	89.4	UMHOS/C	1.0	1.0

Lionville Laboratory, Inc.

INORGANICS METHOD BLANK DATA SUMMARY PAGE 05/01/08

CLIENT: TNU-HANFORD F08-066  
 WORK ORDER: 11343-606-001-9999-00

LVL LOT #: 0804L988

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
BLANK10	08LVI039-MB1	Chromium VI	0.20	u MG/KG	0.20	1.0
BLANK10	08LSD030-MB1	Sulfide	20.4	u MG/KG	20.4	1.0
BLANK10	08LSP008-MB1	Specific Conductance	1.0	u UMHOS/C	1.0	1.0

Lionville Laboratory, Inc.

INORGANICS ACCURACY REPORT 05/01/08

CLIENT: TNU-HANFORD F08-066  
WORK ORDER: 11343-606-001-9999-00

LVL LOT #: 0804L988

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	INITIAL RESULT	SPIKED AMOUNT	%RECOV	DILUTION FACTOR (SPK)
-001	BITFC3	Soluble Chromium VI	4.9	0.23u	4.5	105.3	1.0
		Insoluble Chromium VI	1200	0.23u	1190	100.2	100
-003	BITFC9	Sulfide	495	18.0	546	87.3	1.0
BLANK10	08LVI039-MB1	Soluble Chromium VI	4.1	0.20u	4.0	102.4	1.0
		Insoluble Chromium VI	1110	0.20u	1110	100.4	100
BLANK10	08LSD030-MB1	Sulfide	271	20.4 u	282	96.1	1.0
		Sulfide MSD	236	20.4 u	252	93.8	1.0
BLANK10	08LSP008-MB1	Specific Conductance	723	1.0 u	718	100.7	1.0

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Lionville Laboratory, Inc.

INORGANICS DUPLICATE SPIKE REPORT 05/01/08

CLIENT: TNU-HANFORD F08-066  
WORK ORDER: 11343-606-001-9999-00

LVL LOT #: 0804L988

SAMPLE	SITE ID	ANALYTE	SPIKE#1 SPIKE#2		%DIFF
			%RECOV	%RECOV	
BLANK10	08LSD030-MB1	Sulfide	96.1	93.8	2.5

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Lionville Laboratory, Inc.

INORGANICS PRECISION REPORT 05/01/08

CLIENT: TNU-HANFORD F08-066  
 WORK ORDER: 11343-606-001-9999-00

LVL LOT #: 0804L988

SAMPLE	SITE ID	ANALYTE	INITIAL			DILUTION FACTOR(REP)
			RESULT	REPLICATE	RPD	
-001REP	B1TFC3	% Solids	88.4	87.2	1.4	1.0
		Chromium VI	0.23u	0.23u	NC	1.0
		Specific Conductance	79.5	76.2	4.3	1.0
-003REP	B1TFC9	Sulfide	39.9 u	41.4 u	NC	1.0



Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-066-059

PAGE 1 OF 1

COLLECTOR NCO Sampler *D Conroy 14* COMPANY CONTACT TRENT, SJ TELEPHONE NO. 373-5869 PROJECT COORDINATOR WIDRIG, DL PRICE CODE 8N DATA TURNAROUND 45 Days / 45 Days

SAMPLING LOCATION 66174, 1-002 PROJECT DESIGNATION 216-S-6 Crib Sampling - Soil FIELD LOGBOOK NO. *1402-N-5805-5 Pg 23* ACTUAL SAMPLE DEPTH 7' - 9' SAF NO. F08-066 METHOD OF SHIPMENT FEDERAL EXPRESS

ICE CHEST NO. SHIPPED TO Lionville Laboratory Incorporated OFFSITE PROPERTY NO. *See PTR* BILL OF LADING/AIR BILL NO. *See PTR*

MATRIX\* POSSIBLE SAMPLE HAZARDS/REMARKS Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993) *MAB 2/29/08*

SE=Solid T=Tissue V=Vegetation W=Water WI=Wipe X=Other SPECIAL HANDLING AND/OR STORAGE Radioactive Tie To: BITF80

SAMPLE NO. BITFC3 MATRIX\* SOIL SAMPLE DATE 4-3-8 SAMPLE TIME 1305 SAMPLE ANALYSIS Chromium Hex - 2196, Sulfoxes - 9030 (Sulfides)

Table with columns: CHAIN OF POSSESSION, SIGN/PRINT NAMES, SPECIAL INSTRUCTIONS. Includes dates and times for relinquished and received items.

RELEASABLE BY/REMOVED FROM *D Conroy 14* DATE/TIME 4-3-8 1330 RECEIVED BY/STORED IN *ON SITE STORAGE REF* DATE/TIME 4-3-8 1330

LABORATORY SECTION RECEIVED BY TITLE DATE/TIME FINAL SAMPLE DISPOSITION DISPOSAL METHOD

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

COLLECTOR NCO Sampler *D Conolly* COMPANY CONTACT TRENT, SJ TELEPHONE NO. 373-5869 PROJECT COORDINATOR W/DRIQ, DL PRICE CODE 8N DATA TURNAROUND 45 Days / 45 Days

SAMPLING LOCATION *D Conolly* PROJECT DESIGNATION 216-S-6 Crib Sampling - Soil FIELD LOGBOOK NO. *141E-N-585-5 pg 25* ACTUAL SAMPLE DEPTH *15'-17.5'* SAF NO. F08-066 AIR QUALITY  METHOD OF SHIPMENT FEDERAL EXPRESS

ICE CHEST NO. *None* OFFSITE PROPERTY NO. *151-175* BILL OF LADING/AIR BILL NO. *See PTR*

SHIPPED TO Lionville Laboratory Incorporated

MATRIX\* POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993) *mbs 4/23/07*

SPECIAL HANDLING AND/OR STORAGE Radioactive Tie To: B1TFB1

SAMPLE NO. B1TFC6 MATRIX\* SOIL SAMPLE DATE 4-10-8 SAMPLE TIME 1210 VOLUME 120ml

RECEIVED BY/STORER IN	DATE/TIME	RECEIVED BY/STORER IN	DATE/TIME	SIGN/PRINT NAMES	SPECIAL INSTRUCTIONS
<i>D Conolly</i>	4-10-8 1315	<i>on site fridge</i>	4-10-8 1315	<i>LOT# 024875</i>	** The 200 Area SRGRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. ** Analytical batch QC must be run on a sample associated with this SAF.
<i>on site fridge</i>	4-16-8 1100	<i>D Conolly</i>	4-16-8 1100		
<i>D Conolly</i>	4-16-8 1600	<i>none kept #3</i>	4-16-8 1600		
<i>D Conolly</i>	4-16-8 0907	<i>none kept #3</i>	4-16-8 0907		
<i>D Conolly</i>	4-24-08 1155	<i>none kept #3</i>	4-24-08 1155		

REINQUISHED BY/REMOVED FROM: *D Conolly* DATE/TIME: 4-10-8 1315 RECEIVED BY/STORER IN: *on site fridge* DATE/TIME: 4-10-8 1315

REINQUISHED BY/REMOVED FROM: *on site fridge* DATE/TIME: 4-16-8 1100 RECEIVED BY/STORER IN: *D Conolly* DATE/TIME: 4-16-8 1100

REINQUISHED BY/REMOVED FROM: *D Conolly* DATE/TIME: 4-16-8 1600 RECEIVED BY/STORER IN: *none kept #3* DATE/TIME: 4-16-8 1600

REINQUISHED BY/REMOVED FROM: *D Conolly* DATE/TIME: 4-16-8 0907 RECEIVED BY/STORER IN: *none kept #3* DATE/TIME: 4-16-8 0907

REINQUISHED BY/REMOVED FROM: *D Conolly* DATE/TIME: 4-24-08 1155 RECEIVED BY/STORER IN: *none kept #3* DATE/TIME: 4-24-08 1155

LABORATORY SECTION: \_\_\_\_\_ RECEIVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_

FINAL SAMPLE DISPOSITION: \_\_\_\_\_ DISPOSAL METHOD: \_\_\_\_\_

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-066-061

PAGE 1 OF 1

COLLECTOR  
NCO Sampler  
D Connolly

COMPANY CONTACT  
TRENT, SJ

TELEPHONE NO.  
373-5869

PROJECT COORDINATOR  
WIDRIG, DL

PRICE CODE  
8N

DATA  
TURNAROUND  
45 Days / 45 Days

SAMPLING LOCATION  
C6174, 1-003-D

PROJECT DESIGNATION  
216-S-6 Chb Sampling - Soil

ACTUAL SAMPLE DEPTH  
15'-17.5'

SAF NO.  
F08-066

AIR QUALITY

ICE CHEST NO.

FIELD LOGBOOK NO.

COA  
123210ES20

METHOD OF SHIPMENT  
FEDERAL EXPRESS

SHIPPER TO  
Nooner 1

OFFSITE PROPERTY NO.  
HW-N-5855 pg 25

BILL OF LADING/AIR BILL NO.  
See PTR

Lionville Laboratory Incorporated

See PTR

See PTR

MATRIX\*

POSSIBLE SAMPLE HAZARDS/ REMARKS  
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

PRESERVATION  
Cool~4C

TYPE OF CONTAINER  
G

NO. OF CONTAINER(S)  
1

VOLUME  
120ml

SAMPLE ANALYSIS  
Chromium Hex - 7136, Sulides - 9030 (Sulides)

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

SPECIAL HANDLING AND/OR STORAGE  
Radioactive Tie To: BITFBI

SAMPLE NO.  
BITFC9

MATRIX\*  
SOIL

SAMPLE DATE  
4-10-8

SAMPLE TIME  
12:10

DATE/TIME  
4-10-8 1315

DATE/TIME  
4-10-8 1100

DATE/TIME  
4-16-8 1600

DATE/TIME  
4-16-8 1100

DATE/TIME  
4-16-8 1600

CHAIN OF POSSESSION

SIGN/PRINT NAMES

RECEIVED BY/STORER IN  
ON SITE Frigate

DATE/TIME  
4-10-8 1315

DATE/TIME  
4-10-8 1100

DATE/TIME  
4-16-8 1600

DATE/TIME  
4-16-8 1100

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4-16-8 1100

DATE/TIME  
4-16-8 1600

SPECIAL INSTRUCTIONS

\*\* The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

\*\* Analytical batch QC must be run on a sample associated with this SAF.

RELINQUISHED BY/REMOVED FROM

RECEIVED BY/STORER IN  
D Connolly

DATE/TIME  
4-10-8 1315

DATE/TIME  
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RELINQUISHED BY/REMOVED FROM

RECEIVED BY/STORER IN  
D Connolly

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RELINQUISHED BY/REMOVED FROM

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RELINQUISHED BY/REMOVED FROM

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D Connolly

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4-16-8 1600

LABORATORY SECTION

RECEIVED BY

DATE/TIME

DATE/TIME

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DATE/TIME

FINAL SAMPLE DISPOSITION

DISPOSAL METHOD

DATE/TIME

DATE/TIME

DATE/TIME

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DATE/TIME

**Lionville Laboratory Incorporated  
SAMPLE RECEIPT CHECKLIST (SRC)**

CLIENT: TNU Hanford  
Project/SAF/SOW/Release #: F08-066

Date: 4.24.08

LvLI Batch #: 0804L988

Sample Custodian: [Signature]

NOTE: EXPLAIN ALL DISCREPANCIES

1. Samples Hand Delivered or Shipped?	Carrier <u>FEDEX</u>	Airbill # <u>7989 2669 9910</u>
2. Custody Seals on coolers or shipping containers intact, signed & dated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> No Seals
3. Outside of coolers or shipping containers are free from damage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Comments:
4. All expected paperwork received (coc & other client specific information) sealed in plastic bag and easily accessible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Samples received <u>cooled</u> or ambient?	Temp <u>2.1</u> °C	Cooler # <u>1</u>
How was the temperature taken?	<input checked="" type="checkbox"/> IR <input type="checkbox"/> Temp. Blank	<input type="checkbox"/> Other (Specify):
Is the Temp. Criteria met for these samples? (Hg in soils @ 4°C)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
6. Custody seals on sample containers intact, signed and dated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> No Seals
7. COC (Client & LvLI) signed & dated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
8. Sample containers are intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
9. All samples on COC received? All samples received on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
10. All sample label information matches COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
11. Samples properly preserved? (If #5 is no, then this is no.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
12. Samples received within hold times? Short holds taken to wet lab?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
13. VOA, TOC, TOX free of headspace?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
14. QC stickers placed on bottles designated by client?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
15. Shipment meets LvLI Sample Acceptance Policy? (Identify all bottles that do not meet the policy, which is on the reverse of this page.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
16. Project Manager contacted concerning any discrepancies? Person Contacted _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A Date _____

