

H1654
0056762

Lionville Laboratory, Inc.
VOA ANALYTICAL DATA PACKAGE FOR
TNU-HANFORD B01-114 H1654



RFW LOT # : 026742

CLIENT ID	RFW #	MTX	PREP #	COLLECTN DATE	REC	EXT/PREP	ANALYSIS
B13F33	001	W	02LVG005	01/03/02	01/08/02	N/A	01/10/02
B13F33	001 MS	W	02LVG005	01/03/02	01/08/02	N/A	01/10/02
B13F33	001 MSD	W	02LVG005	01/03/02	01/08/02	N/A	01/10/02
LAB QC:							
VBLKHI	MB1	W	02LVG005	N/A	N/A	N/A	01/10/02
VBLKHI	MB1 BS	W	02LVG005	N/A	N/A	N/A	01/10/02

RECEIVED
MAR 26 2002
EDMC



Client: TNU-HANFORD B01-114
LVL #: 0201L742
SDG/SAF #: H1654/B01-114

W.O. #: 11343-606-001-9999-00
Date Received: 01-08-2002

GC/MS VOLATILE

One (1) soil sample was collected on 01-03-2002.

The sample and its associated QC samples were analyzed according to criteria set forth in Lionville Laboratory OPs based on SW 846 Method 8260A for TCL Volatile target compounds on 01-10-2002.

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

1. The cooler temperature (0.5° C) upon receipt has been recorded on the chain-of-custody.
2. All results presented in this report are derived from samples that met LVLI's sample acceptance policy.
3. The analysis holding time was met.
4. Non-target compounds were not detected in the sample.
5. One (1) of fifteen (15) surrogate recoveries was outside EPA QC limits. The analysis of associated matrix spike duplicate fulfills the reanalysis requirement of sample B13F33 MS.
6. All matrix spike recoveries were within EPA QC limits.
7. All blank spike recoveries were within EPA QC limits.
8. Internal standard area and retention time criteria were met.
9. "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."


J. Michael Taylor
President
Lionville Laboratory Incorporated

01-31-02
Date

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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 9 pages.

GLOSSARY OF VOA DATA

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.

GLOSSARY OF VOA DATA

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.
- 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.

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.

Cust ID: B13F33 B13F33 B13F33 VBLKHI VBLKHI BS

RFW#: 001 001 MS 001 MSD 02LVG005-MB1 02LVG005-MB1

Chlorobenzene	5 U	106 %	103 %	5 U	99 %
Ethylbenzene	5 U	5 U	5 U	5 U	5 U
Styrene	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5 U	5 U	5 U	5 U	5 U
N-butylbenzene	5 U	5 U	5 U	5 U	5 U

*= Outside of EPA CLP QC limits.

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			B01-114-37	Page 1 of 1
Collector Renee Nielson	Company Contact Virginia Rohay	Telephone No. 372-9100	Project Coordinator Trent, SJ	Price Code 7N	Data Turnaround 45 Days	
Project Designation PFP Well Installation Sampling and Analysis - Water	Sampling Location 200 West	SAF No. B01-114	Air Quality <input type="checkbox"/>			
Ice Chest No. ERC-01-043	Field Logbook No. EL-1562	COA T20ZP1D722	Method of Shipment Federal Express			
Shipped To TMA/RECRA RECRA	Offsite Property No. A020100	Bill of Lading/Air Bill No. 42357455-0030				

POSSIBLE SAMPLE HAZARDS/REMARKS Samples did not originate in radiological controlled area. No total activity associated with sample/samples. <i>RT 1-7-02</i>	Preservation	HCl to pH <2 Cool 4C									
	Type of Container	aG ⁺									
	No. of Container(s)	3									
	Volume	40mL									
Special Handling and/or Storage	SAMPLES STORED IN REF.# 2B AT THE 3728 SHIPPING FACILITY ON 1/14/02. COLLECTOR NOT AVAILABLE TO RELINQUISH SAMPLES ON 1/17/02 FOR SHIPMENT. <i>RT 1-7-02</i>										
SAMPLE ANALYSIS		VOA - 8260A (TCL); VOA - 8260A (Add-On) (n-Butylbenzene)									

Sample No.	Matrix *	Sample Date	Sample Time									
B13F33	WATER	1-3-02	1700	X								

CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS				Matrix * S=Soil SE=Soilment SO=Solid S=Sludge W=Water O=Oil A=Air DS=Drum Solid DL=Drum Liquid T=Trash W=Wipe L=Liquid V=Vegetation O=Other
Relinquished By <i>R. Nielson</i>	Date/Time 01/15	Received By/stored in <i>Ref #2B</i>	Date/Time 01/15	<i>File to B130/RT 1-7-02</i>				
Relinquished By <i>Removed from Ref 2B 3728</i>	Date/Time 0800 1-7-02	Received By <i>R. Thoren</i>	Date/Time 0800 1-7-02					
Relinquished By <i>R. Thoren</i>	Date/Time 0800 1-7-02	Received By <i>FE 0901</i>	Date/Time					
Relinquished By <i>Fed Ex</i>	Date/Time 01/08/02 1010	Received By <i>Jackie Pury</i>	Date/Time 01/08/02 1010					
Relinquished By	Date/Time	Received By	Date/Time					

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