



H1593

0056947

Analytical Report

Client: TNU HANFORD B02-004
LVL#: 0111L331
SDG/SAF#: H1593/B02-004

W.O.#: 11343-606-001-9999-00
Date Received: 11-13-01

PESTICIDE

One (1) water sample was collected on 11-12-01.

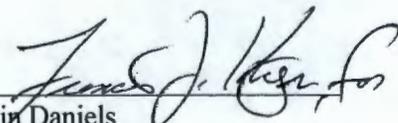
The sample and its associated QC samples were extracted on 11-14-01 and analyzed according to Lionville Laboratory OPs based on SW846, 3rd Edition procedures on 12-01,02-01. The extraction procedure was based on method 3520 and the extracts were analyzed based on method 8081.

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

1. The cooler temperature has been recorded on the chain-of-custody.
2. All required holding times for extraction and analysis have been met.
3. The method blank was below the reporting limits for all target compounds.
4. All surrogate recoveries were within acceptance criteria.
5. The blank spike recovery was within acceptance criteria.
6. All matrix spike recoveries were within acceptance criteria.
7. All initial calibrations associated with this data set were within acceptance criteria.
8. All continuing calibration standards analyzed prior to sample extracts were within acceptance criteria, with the exception of target compounds 4,4-DDD and 4,4-DDE analyzed on 12-01-01 at 15:21 and 16:10 on both columns. The data reflected an increase in instrument response, so the ability to identify the spiked compounds was not impaired. A copy of the Sample Discrepancy Report (SDR) has been enclosed.
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.

RECEIVED
APR 19 2002

EDMC


Iain Daniels
Deputy Laboratory Manager
Lionville Laboratory Incorporated


Date

pefr:\group\data\pest\11L-331.pes

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 7 pages.



GLOSSARY OF PESTICIDE/PCB 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 PESTICIDE/PCB DATA

- P** = This flag is used for an PESTICIDE/PCB 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 1 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/MS.

Lionville Laboratory, Inc.
Pesticides/PCB by GC, Special List

Report Date: 12/04/01 10:44

RFW Batch Number: 0111L331

Client: TNUHANFORD B02-004 H1593 Work Order: 11343606001 Page: 1

Sample Information	Cust ID:	B139F4	B139F4	B139F4	PBLKWT	PBLKWT BS
RFW#:	001	001 MS	001 MSD	01LE1364-MB1	01LE1364-MB1	
Matrix:	WATER	WATER	WATER	WATER	WATER	
D.F.:	1.00	1.00	1.00	1.00	1.00	
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	
Surrogate:	Decachlorobiphenyl	91 %	75 %	101 %	93 %	88 %
	Tetrachloro-m-xylene	98 %	95 %	92 %	85 %	88 %
		fl	fl	fl	fl	fl
4,4'-DDE		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDD		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT		0.10 U	100 %	114 %	0.10 U	106 %

*lt 12-4-01
7/20/01/01*

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

Lionville Laboratory Use Only
0111L331

Custody Transfer Record/Lab Work Request Page 1 of 1



FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Client <u>TNU-HANFORD B02-004</u>	Refrigerator # <u>2</u>												
Est. Final Proj. Sampling Date _____	#/Type Container Liquid <u>4AG</u>												
Project # <u>11343-606-001-9999-00</u>	Solid _____												
Project Contact/Phone # _____	Volume Liquid <u>1L</u>												
Lionville Laboratory Project Manager <u>03</u>	Solid _____												
QC <u>SPEC</u> Del <u>STD</u> TAT <u>30 day</u>	Preservatives _____												
Date Rec'd <u>11-13-01</u> Date Due <u>12-13-01</u>	ANALYSES REQUESTED →												
	<table border="1"> <tr> <th colspan="4">ORGANIC</th> <th colspan="2">INORG</th> </tr> <tr> <td>VOA</td> <td>BNA</td> <td>Pest/Herb</td> <td>Herb</td> <td>Metal</td> <td>CN</td> </tr> </table>	ORGANIC				INORG		VOA	BNA	Pest/Herb	Herb	Metal	CN
ORGANIC				INORG									
VOA	BNA	Pest/Herb	Herb	Metal	CN								

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	Lionville Laboratory Use Only											
			MS	MSD				VOA	BNA	Pest/Herb	Herb	Metal	CN						
	001	B139F4	✓	✓	W	11-12-01	0820	X											

Special Instructions: SAF # B02-004

DATE/REVISIONS:
0608x 1. 4.4'DDD : 4.4'DDE - 4.4'DDT
 _____ 2. _____
 _____ 3. _____
 _____ 4. _____
 _____ 5. _____
 _____ 6. _____

Lionville Laboratory Use Only

Samples were: 1) Shipped <input checked="" type="checkbox"/> or Hand Delivered Airbill # <u>5-E</u> <u>below</u>	2) Ambient or Chilled <input checked="" type="checkbox"/>	3) Received in Good Condition <input checked="" type="checkbox"/> or N	4) Samples Properly Preserved <input checked="" type="checkbox"/> or N	5) Received Within Holding Times <input checked="" type="checkbox"/> or N
Tamper Resistant Seal was: 1) Present on Outer Package <input checked="" type="checkbox"/> or N	2) Unbroken on Outer Package <input checked="" type="checkbox"/> or N	3) Present on Sample <input checked="" type="checkbox"/> or N	4) Unbroken on Sample <input checked="" type="checkbox"/> or N	COC Record Present Upon Sample Rec't <input checked="" type="checkbox"/> or N
Cooler Temp. <u>2.3</u> °C				

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
<u>FEDEX</u>	<u>Calo Namf</u>	<u>11-13-01</u>	<u>0945</u>	COMPOSITE WASTE	ORIGINAL REWRITTEN		

Discrepancies Between Samples Labels and COC Record? Y or N
 NOTES:
 4235 7954 8898