

Recra LabNet - Lionville Laboratory
PCB ANALYTICAL DATA PACKAGE FOR
TNUHANFORD B99-042 H1180

DATE RECEIVED: 12/08/00

RFW LOT # :0012L533

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B112H0	001	S	00LE1616	12/06/00	12/08/00	12/11/00
B112H0	001 MS	S	00LE1616	12/06/00	12/08/00	12/11/00
B112H0	001 MSD	S	00LE1616	12/06/00	12/08/00	12/11/00
B112H1	002	S	00LE1616	12/06/00	12/08/00	12/11/00

LAB QC:

PBLKJW	MB1	S	00LE1616	N/A	12/08/00	12/11/00
PBLKJW	MB1 BS	S	00LE1616	N/A	12/08/00	12/11/00

12/20/00



RECEIVED
JAN 22 2001

EDMC

**Recra LabNet Philadelphia
Analytical Report**

Client: TNU HANFORD B99-042
RFW#: 0012L533
SDG/SAF#: H1180/B99-042

W.O.#: 10985-001-001-9999-00
Date Received: 12-08-00

PCB

The set of samples consisted of two (2) soil samples collected on 12-06-00.

The samples and their associated QC samples were extracted on 12-08-00 and analyzed according to Recra OPs based on SW846, 3rd Edition procedures on 12-11-00. The extraction procedure was based on method 3540 and the extracts were analyzed based on method 8082 for Aroclors only.

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 samples and their associated QC samples received a sulfuric acid cleanup.
4. The method blank was below the reporting limits for all target compounds.
5. All surrogate recoveries were within acceptance criteria.
6. The blank spike recovery was within acceptance criteria.
7. All matrix spike recoveries were within acceptance criteria.
8. All initial calibrations associated with this data set were within acceptance criteria.
9. All continuing calibration standards analyzed prior to sample extracts were within acceptance criteria.
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 data package has been authorized by the laboratory Manager or a designee, as verified by the following signature.



By J. Michael Taylor
J. Michael Taylor
VP, Laboratory General Manager
Lionville Laboratory

12-28-00
Date

pefr:\group\data\pest\12L533.pcb

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 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 a pesticide/Aroclor 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/MS.



Recra LabNet - Lionville Laboratory

PCBs by GC

Report Date: 12/18/00 12:17

RFW Batch Number: 0012L533

Client: TNUHANFORD B99-042 H1180 Work Order: 10985001001 Page: 1

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Sample Information	Cust ID:	B112H0	B112H0	B112H0	B112H1	PBLKJW	PBLKJW BS
	RFW#:	001	001 MS	001 MSD	002	00LE1616-MB1	00LE1616-MB1
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.00	1.00	1.00	1.00
	Units:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

Surrogate:	Tetrachloro-m-xylene	92 %	75 %	92 %	40 %	85 %	90 %
	Decachlorobiphenyl	93 %	75 %	92 %	39 %	84 %	86 %
		fl	fl	fl	fl	fl	fl
Aroclor-1016		33 U	33 U	33 U	33 U	33 U	33 U
Aroclor-1221		66 U	67 U	66 U	67 U	67 U	67 U
Aroclor-1232		33 U	33 U	33 U	33 U	33 U	33 U
Aroclor-1242		33 U	33 U	33 U	33 U	33 U	33 U
Aroclor-1248		33 U	33 U	33 U	33 U	33 U	33 U
Aroclor-1254		33 U	76 %	112 %	33 U	33 U	93 %
Aroclor-1260		33 U	33 U	33 U	33 U	33 U	33 U

Handwritten signature
12-18-00

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

RUAC 107 C

SHIP TO: RCCRA LAB NET		HAZARDOUS MATERIAL SHIPMENT RECORD (HMSR)		Shipment Number 000823
Company		Originating Facility Building 3528	Originator Signature <i>R. Johnson</i>	Date 12-6-00
Address 208 WELSH POOL ROAD		Area 300	From BHI HANFORD	
City, State, Zip LIONVILLE, PA. 19341 1333		OFFSITE ONLY: SHIP: <input checked="" type="checkbox"/> PREPAID <input checked="" type="checkbox"/> COLLECT <input type="checkbox"/>		
Attention ORLETTE JOHNSON		VIA AIR CARGO PASSENGER		
610-286-3012		Cost Code: R11CH72400		

CONTAINERS/PACKAGING						CONTENT/DESCRIPTION
Number of Containers	Type Container	Package Spec.	Package Dimension	Quantity Pkg (Net)	Gross Wt Each Pkg	See 49 CFR 172.101(c) Hazardous Material Table
1	PLASTIC BAG inner Metal Drum outer	IPS inner HAZ outer	50x6cm 30x35cm	850g	11kg	Proper Shipping Name: polymerized diphenyl sulfide Hazard Class 9 UN/NA No.: UN2315 PG II List Secondary Hazards: NONE List Labels Req'd Applied: 9
SAF # B99-CHZ ERG #: 171 Emergency Contact: 1-888-766-0711						Proper Shipping Name: polymerized diphenyl sulfide Hazard Class # 9 II UN/NA No.: PG List Secondary Hazards: operator instruction List Labels Req'd Applied: 1-16
						Proper Shipping Name: Hazard Class UN/NA No.: PG List Secondary Hazards: List Labels Req'd Applied:

Total No. Containers 1	Gross Wt of Shipment 11 kg	Identify Placards Required 1 HA 3 — 2 — 4 —	Identify Property Control or Return Order No. (if applicable)
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Material in manufacturers original container (Circle One) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Describe Internal Packaging GLASS JAR WITH BLUE LABELS IN IAZ
Container free of deterioration or damage Yes <input checked="" type="checkbox"/>	
Container acceptability documented Yes <input checked="" type="checkbox"/>	
Material is packaged, sealed, marked and labelled to meet DOT requirements Yes <input checked="" type="checkbox"/>	

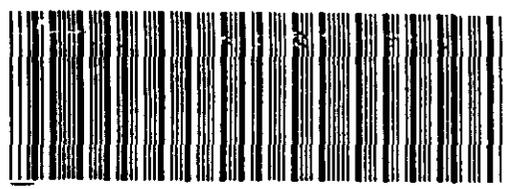
Radiation Release	Survey No. NA	Date NA	RM Signature NA	Print Name
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Transporter		Receiver	
Vehicle Number G42-76304	Driver Signature <i>R. Johnson</i>	Receiver Signature	Date

CERTIFICATION	
CONTRACTORS CERTIFICATION This is to certify that the above named materials are properly classified, described, packaged, marked and labelled and are in proper condition for transport according to the applicable regulations of the Department of Transportation. Authorizing Signature: _____ Print Name: _____	This shipment is within the limitations prescribed for <input type="checkbox"/> Passenger Aircraft <input type="checkbox"/> Cargo Aircraft <input type="checkbox"/> NA Date: 12-6-00

FOR OFFSITE SHIPMENTS - ADDITIONAL APPROVAL REQUIRED					
WMFS	B.L. No.	Date Shipped 12/7/00	ETA 12/8/00	Routing F-F-A-X	Special Considerations
	WMFS Traffic <i>[Signature]</i>	WMFS Shipping:		08	

From **JOHN E. MAXWELL** Phone **(509) 276 7493**
 Date **12-07-00** Sender's FedEx Account Number [REDACTED]



811511013880

Questions? Call 1-800-Go-FedEx (800-463-3335) or Visit our Web site at www.fedex.com

Company **DURATEK FEDERAL SERVICES, INC., FOR U.S. DEPT. OF ENERGY**

Address **2355 STEVENS DRIVE MS 11-14** Dept./Floor/Suite/Room

City **RICHLAND** State **WA** ZIP **99352**

Your Internal Billing Reference **R116H72600**

To **ORLETTE JOHNSON** Phone **610 280-3012**

Company **RECRA LAB NET**

Address **208 WELSH POOL ROAD** Dept./Floor/Suite/Room

City **LIONVILLE** State **PA** ZIP **19341-1333**

For HOLD at FedEx Location check here
 Hold Weekday Hold Saturday
 For WEEKEND Delivery check here
 Saturday Delivery Sunday Delivery

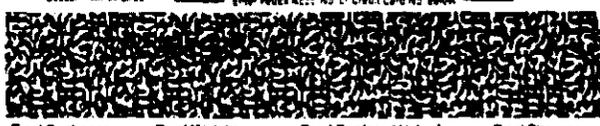
4a Express Package Service Packages up to 150 lbs.
 FedEx Priority Overnight FedEx Standard Overnight
 FedEx 2Day FedEx Express Saver

4b Express Freight Service Packages over 150 lbs.
 FedEx 1Day Freight FedEx 2Day Freight FedEx 3Day Freight

5 Packaging Other Packaging
 Dangerous Goods cannot be shipped in FedEx packaging

6 Special Handling Dangerous Goods as per attached Shipper's Declaration Cargo Aircraft Only

7 Payment Bill to: Sender Recipient Third Party Credit Card Cash Check



Total Packages: 1 Total Weight: 4.7 Total Declared Value: \$ NVD Total Charges: .00

Signature Release Unavailable

FedEx Tracking Number: **811511013880** Form ID No: **0204**

Two completed and signed copies of this Declaration must be handed to the operator.

TRANSPORT DETAILS	
This shipment is within the limitations prescribed for: (delete non-applicable) PASSENGER AND CARGO AIRCRAFT	Airport of Departure: PASCO, WA
Airports of Destination:	

WARNING
 Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.

Shipment type: (delete non-applicable)
NON-RADIOACTIVE

NATURE AND QUANTITY OF DANGEROUS GOODS					Quantity and Type of Packaging	Packing Instr.	Authorization
Dangerous Goods Identification							
Proper Shipping Name	Class or Division	UN or I.D. No.	Packing Group	Subsidiary Risk			
POLYCHLORINATED BIPHENYLS, SOLID	9	UN2315	II		1 METAL DRUM x 850 g	911	PACKAGED PER FX-06

Additional Handling Information: **EMERGENCY RESPONSE GUIDE # 171 ATTACHED**

Prepared for AIR TRANSPORT according to: (Customer MUST check one)
 49 CFR ICAO / IATA

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Name/Title of Signatory: **JOHN E. MAXWELL/TRAFFIC SPEC.**
 Place and Date: **RICHLAND, WA 12-07-00**
 Signature: [Signature]