

**Recra LabNet Philadelphia  
Analytical Report  
\*\*REVISION\*\***

0052706

Client : TNU-HANFORD B99-078  
RFW# : 9908L863  
SDG/SAF #: H0502/B99-078

W.O. #: 10985-001-001-9999-00  
Date Received: 08-25-99

**SEMIVOLATILE**

**RECEIVED**  
MAR 20 2000

This narrative was corrected to add the TIC search for Tributylphosphate.

**EDMC**

Eight (8) soil samples were collected on 08-23-99.

The samples and their associated QC samples were extracted on 09-02-99 and analyzed according to criteria set forth in Recra OPs based on SW 846 Method 8270B for TCL Semivolatile target compounds on 09-21-99.

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 temperatures upon receipt have been recorded on the chain-of-custody.
2. The required holding times for extraction and analysis were met.
3. Non-target compounds were detected in the samples.
4. All surrogate recoveries were within EPA QC limits.
5. All matrix spike recoveries were within EPA QC limits.
6. One (1) of eleven (11) blank spike recoveries was outside EPA QC limits.
7. A spectral search was conducted for the compound Butylated Hydroxytoluene and Tributylphosphate; these compounds were not identified in the samples.



*J. Michael Taylor*

J. Michael Taylor  
Vice President  
Philadelphia Analytical Laboratory

01-27-00

Date

pef\gornup\data\bna\tnu08863.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 18 pages.

## GLOSSARY OF BNA 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.
- A** = Indicates that a TIC is a suspected aldol-condensation product.
- 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.



## GLOSSARY OF BNA 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.



Recra LabNet - Lionville Laboratory

Semivolatiles by GC/MS, HSL List

Report Date: 09/28/99 17:09

RFW Batch Number: 9908L863

Client: TNU-HANFORD B99-078

Work Order: 10985001001

Page: 1a

04

Sample Information	Cust ID:	BOW5L0	BOW5L2	BOW5K4	BOW5K5	BOW5K6	BOW5K7
	RFW#:	001	002	003	004	005	006
	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	Nitrobenzene-d5	82 %	78 %	90 %	92 %	83 %	75 %
Recovery	2-Fluorobiphenyl	75 %	78 %	81 %	81 %	81 %	68 %
	Terphenyl-d14	80 %	77 %	86 %	94 %	85 %	72 %
	Phenol-d5	64 %	65 %	67 %	70 %	67 %	62 %
	2-Fluorophenol	61 %	61 %	64 %	69 %	66 %	58 %
	2,4,6-Tribromophenol	72 %	69 %	74 %	77 %	69 %	58 %
		-----fl	-----fl	-----fl	-----fl	-----fl	-----fl
	Phenol	360 U	350 U	350 U	410 U	350 U	380 U
	bis(2-Chloroethyl) ether	360 U	350 U	350 U	410 U	350 U	380 U
	2-Chlorophenol	360 U	350 U	350 U	410 U	350 U	380 U
	1,3-Dichlorobenzene	360 U	350 U	350 U	410 U	350 U	380 U
	1,4-Dichlorobenzene	360 U	350 U	350 U	410 U	350 U	380 U
	1,2-Dichlorobenzene	360 U	350 U	350 U	410 U	350 U	380 U
	2-Methylphenol	360 U	350 U	350 U	410 U	350 U	380 U
	2,2'-oxybis(1-Chloropropane)	360 U	350 U	350 U	410 U	350 U	380 U
	4-Methylphenol	360 U	350 U	350 U	410 U	350 U	380 U
	N-Nitroso-di-n-propylamine	360 U	350 U	350 U	410 U	350 U	380 U
	Hexachloroethane	360 U	350 U	350 U	410 U	350 U	380 U
	Nitrobenzene	360 U	350 U	350 U	410 U	350 U	380 U
	Isophorone	360 U	350 U	350 U	410 U	350 U	380 U
	2-Nitrophenol	360 U	350 U	350 U	410 U	350 U	380 U
	2,4-Dimethylphenol	360 U	350 U	350 U	410 U	350 U	380 U
	bis(2-Chloroethoxy) methane	360 U	350 U	350 U	410 U	350 U	380 U
	2,4-Dichlorophenol	360 U	350 U	350 U	410 U	350 U	380 U
	1,2,4-Trichlorobenzene	360 U	350 U	350 U	410 U	350 U	380 U
	Naphthalene	360 U	350 U	350 U	410 U	350 U	380 U
	4-Chloroaniline	360 U	350 U	350 U	410 U	350 U	380 U
	Hexachlorobutadiene	360 U	350 U	350 U	410 U	350 U	380 U
	4-Chloro-3-methylphenol	360 U	350 U	350 U	410 U	350 U	380 U
	2-Methylnaphthalene	360 U	350 U	350 U	410 U	350 U	380 U
	Hexachlorocyclopentadiene	360 U	350 U	350 U	410 U	350 U	380 U
	2,4,6-Trichlorophenol	360 U	350 U	350 U	410 U	350 U	380 U
	2,4,5-Trichlorophenol	890 U	870 U	880 U	1000 U	870 U	940 U

\*= Outside of EPA CLP QC limits.

Cust ID: BOW5L0 BOW5L2 BOW5K4 BOW5K5 BOW5K6 BOW5K7

RFW#: 001 002 003 004 005 006

	001	002	003	004	005	006
2-Chloronaphthalene	360 U	350 U	350 U	410 U	350 U	380 U
2-Nitroaniline	890 U	870 U	880 U	1000 U	870 U	940 U
Dimethylphthalate	360 U	350 U	350 U	410 U	350 U	380 U
Acenaphthylene	360 U	350 U	350 U	410 U	350 U	380 U
2,6-Dinitrotoluene	360 U	350 U	350 U	410 U	350 U	380 U
3-Nitroaniline	890 U	870 U	880 U	1000 U	870 U	940 U
Acenaphthene	360 U	350 U	350 U	410 U	350 U	380 U
2,4-Dinitrophenol	890 U	870 U	880 U	1000 U	870 U	940 U
4-Nitrophenol	890 U	870 U	880 U	1000 U	870 U	940 U
Dibenzofuran	360 U	350 U	350 U	410 U	350 U	380 U
2,4-Dinitrotoluene	360 U	350 U	350 U	410 U	350 U	380 U
Diethylphthalate	360 U	350 U	66 J	88 J	64 J	67 J
4-Chlorophenyl-phenylether	360 U	350 U	350 U	410 U	350 U	380 U
Fluorene	360 U	350 U	350 U	410 U	350 U	380 U
4-Nitroaniline	890 U	870 U	880 U	1000 U	870 U	940 U
4,6-Dinitro-2-methylphenol	890 U	870 U	880 U	1000 U	870 U	940 U
N-Nitrosodiphenylamine (1)	360 U	350 U	350 U	410 U	350 U	380 U
4-Bromophenyl-phenylether	360 U	350 U	350 U	410 U	350 U	380 U
Hexachlorobenzene	360 U	350 U	350 U	410 U	350 U	380 U
Pentachlorophenol	890 U	870 U	880 U	1000 U	870 U	940 U
Phenanthrene	360 U	350 U	350 U	410 U	350 U	380 U
Anthracene	360 U	350 U	350 U	410 U	350 U	380 U
Carbazole	360 U	350 U	350 U	410 U	350 U	380 U
Di-n-butylphthalate	480	320 J	1300	1500	1100	1200
Fluoranthene	360 U	350 U	350 U	410 U	350 U	380 U
Pyrene	360 U	350 U	350 U	410 U	350 U	380 U
Butylbenzylphthalate	140 J	160 J	350 U	33 J	38 J	160 J
3,3'-Dichlorobenzidine	360 U	350 U	350 U	410 U	350 U	380 U
Benzo(a)anthracene	360 U	350 U	350 U	410 U	350 U	380 U
Chrysene	360 U	350 U	350 U	410 U	350 U	380 U
bis(2-Ethylhexyl)phthalate	360 U	350 U	350 U	410 U	350 U	380 U
Di-n-octyl phthalate	360 U	350 U	350 U	410 U	350 U	380 U
Benzo(b)fluoranthene	360 U	350 U	350 U	410 U	350 U	380 U
Benzo(k)fluoranthene	360 U	350 U	350 U	410 U	350 U	380 U
Benzo(a)pyrene	360 U	350 U	350 U	410 U	350 U	380 U
Indeno(1,2,3-cd)pyrene	360 U	350 U	350 U	410 U	350 U	380 U
Dibenz(a,h)anthracene	360 U	350 U	350 U	410 U	350 U	380 U
Benzo(g,h,i)perylene	360 U	350 U	350 U	410 U	350 U	380 U

(1) - Cannot be separated from Diphenylamine. \*= Outside of EPA CLP QC limits.

CO



Cust ID:	B0W5K8	B0W5K9	B0W5K9	B0W5K9	SBLKCB	SBLKCB BS
RFW#:	007	008	008 MS	008 MSD	99LE1076-MB1	99LE1076-MB1

2-Chloronaphthalene	390 U	360 U	360 U	360 U	330 U	330 U
2-Nitroaniline	980 U	890 U	890 U	890 U	840 U	840 U
Dimethylphthalate	390 U	360 U	360 U	360 U	330 U	330 U
Acenaphthylene	390 U	360 U	360 U	360 U	330 U	330 U
2,6-Dinitrotoluene	390 U	360 U	360 U	360 U	330 U	330 U
3-Nitroaniline	980 U	890 U	890 U	890 U	840 U	840 U
Acenaphthene	390 U	360 U	70 %	74 %	330 U	99 %
2,4-Dinitrophenol	980 U	890 U	890 U	890 U	840 U	840 U
4-Nitrophenol	980 U	890 U	42 %	41 %	840 U	80 %
Dibenzofuran	390 U	360 U	360 U	360 U	330 U	330 U
2,4-Dinitrotoluene	390 U	360 U	76 %	78 %	330 U	98 * %
Diethylphthalate	57 J	50 J	46 J	74 J	330 U	330 U
4-Chlorophenyl-phenylether	390 U	360 U	360 U	360 U	330 U	330 U
Fluorene	390 U	360 U	360 U	360 U	330 U	330 U
4-Nitroaniline	980 U	890 U	890 U	890 U	840 U	840 U
4,6-Dinitro-2-methylphenol	980 U	890 U	890 U	890 U	840 U	840 U
N-Nitrosodiphenylamine (1)	390 U	360 U	360 U	360 U	330 U	330 U
4-Bromophenyl-phenylether	390 U	360 U	360 U	360 U	330 U	330 U
Hexachlorobenzene	390 U	360 U	360 U	360 U	330 U	330 U
Pentachlorophenol	980 U	890 U	57 %	58 %	840 U	87 %
Phenanthrene	390 U	360 U	360 U	360 U	330 U	330 U
Anthracene	390 U	360 U	360 U	360 U	330 U	330 U
Carbazole	390 U	360 U	360 U	360 U	330 U	330 U
Di-n-butylphthalate	1800	1500	1300	1700	330 U	330 U
Fluoranthene	390 U	360 U	360 U	360 U	330 U	330 U
Pyrene	390 U	360 U	74 %	78 %	330 U	108 %
Butylbenzylphthalate	390 U	360 U	360 U	360 U	330 U	330 U
3,3'-Dichlorobenzidine	390 U	360 U	360 U	360 U	330 U	330 U
Benzo(a)anthracene	390 U	360 U	360 U	360 U	330 U	330 U
Chrysene	390 U	360 U	360 U	360 U	330 U	330 U
bis(2-Ethylhexyl)phthalate	390 U	360 U	360 U	360 U	330 U	330 U
Di-n-octyl phthalate	390 U	360 U	360 U	360 U	330 U	330 U
Benzo(b)fluoranthene	390 U	360 U	360 U	360 U	330 U	330 U
Benzo(k)fluoranthene	390 U	360 U	360 U	360 U	330 U	330 U
Benzo(a)pyrene	390 U	360 U	360 U	360 U	330 U	330 U
Indeno(1,2,3-cd)pyrene	390 U	360 U	360 U	360 U	330 U	330 U
Dibenz(a,h)anthracene	390 U	360 U	360 U	360 U	330 U	330 U
Benzo(g,h,i)perylene	390 U	360 U	360 U	360 U	330 U	330 U

(1) - Cannot be separated from Diphenylamine. \*= Outside of EPA CLP QC limits.

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B0W5L0

Lab Name: Recra.LabNet                      Work Order: 10985001001

Client: TNU-HANFORD B99-078

Matrix: (soil/water) SOIL    Lab Sample ID: 9908L863-001

Sample wt/vol: 30.1                      (g/mL) G    Lab File ID: A092106

Level:            (low/med) LOW    Date Received: 08/25/99

% Moisture: 7    decanted: (Y/N)       Date Extracted: 09/02/99

Concentrated Extract Volume: 1000(uL)    Date Analyzed: 09/21/99

Injection Volume: 2.0(uL)    Dilution Factor: 1.00

GPC Cleanup:    (Y/N) N    pH:       

Number TICs found: 3    CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ADIPATE	23.70	200	J
2.	UNKNOWN	24.35	100	J
3.	PHTHALATE	25.20	100	J

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B0W5L2

Lab Name: Recra.LabNet                      Work Order: 10985001001

Client: TNU-HANFORD B99-078

Matrix: (soil/water) SOIL    Lab Sample ID: 9908L863-002

Sample wt/vol: 30.0                      (g/mL) G    Lab File ID: A092107

Level:            (low/med) LOW    Date Received: 08/25/99

% Moisture: 4            decanted: (Y/N)       Date Extracted: 09/02/99

Concentrated Extract Volume: 1000 (uL)    Date Analyzed: 09/21/99

Injection Volume: 2.0 (uL)    Dilution Factor: 1.00

GPC Cleanup:    (Y/N) N    pH:       

Number TICs found: 5    CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	23.05	100	J
2.	ADIPATE	23.71	800	J
3.	UNKNOWN	24.23	100	J
4.	UNKNOWN	24.35	100	J
5.	PHTHALATE	25.20	300	J

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOW5K4

Lab Name: Recra.LabNet                      Work Order: 10985001001

Client: TNU-HANFORD B99-078

Matrix: (soil/water) SOIL                                      Lab Sample ID: 9908L863-003

Sample wt/vol: 30.0                      (g/mL) G                                      Lab File ID: A092108

Level:            (low/med) LOW                                      Date Received: 08/25/99

% Moisture: 5    decanted: (Y/N)                                         Date Extracted: 09/02/99

Concentrated Extract Volume: 1000 (uL)                                      Date Analyzed: 09/21/99

Injection Volume: 2.0 (uL)                                      Dilution Factor: 1.00

GPC Cleanup:    (Y/N) N                                      pH:       

Number TICs found: 1                                      CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	18.18	100	J

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOW5K5

Lab Name: Recra.LabNet                      Work Order: 10985001001

Client: TNU-HANFORD B99-078

Matrix: (soil/water) SOIL                      Lab Sample ID: 9908L863-004

Sample wt/vol: 30.0                      (g/mL) G                      Lab File ID: A092109

Level: (low/med) LOW                      Date Received: 08/25/99

% Moisture: 18      decanted: (Y/N)                         Date Extracted: 09/02/99

Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 09/21/99

Injection Volume: 2.0 (uL)                      Dilution Factor: 1.00

GPC Cleanup: (Y/N) N                      pH:       

Number TICs found: 1

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	18.18	100	J

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOW5K6

Lab Name: Recra.LabNet                      Work Order: 10985001001

Client: TNU-HANFORD B99-078

Matrix: (soil/water) SOIL    Lab Sample ID: 9908L863-005

Sample wt/vol: 30.0                      (g/mL) G    Lab File ID: A092110

Level: (low/med) LOW    Date Received: 08/25/99

% Moisture: 4      decanted: (Y/N)       Date Extracted: 09/02/99

Concentrated Extract Volume: 1000 (uL)    Date Analyzed: 09/21/99

Injection Volume: 2.0 (uL)    Dilution Factor: 1.00

GPC Cleanup: (Y/N) N    pH:       

Number TICs found: 1    CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	18.18	90	J

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOW5K7
--------

Lab Name: Recra.LabNet                      Work Order: 10985001001

Client: TNU-HANFORD B99-078

Matrix: (soil/water) SOIL    Lab Sample ID: 9908L863-006

Sample wt/vol: 30.0                      (g/mL) G    Lab File ID: A092111

Level:        (low/med) LOW    Date Received: 08/25/99

% Moisture: 12    decanted: (Y/N)        Date Extracted: 09/02/99

Concentrated Extract Volume: 1000 (uL)    Date Analyzed: 09/21/99

Injection Volume: 2.0 (uL)    Dilution Factor: 1.00

GPC Cleanup: (Y/N) N    pH:       

Number TICs found: 4    CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	18.18	90	J
2.	ADIPATE	23.70	90	J
3.	PHTHALATE	25.20	200	J
4.	UNKNOWN	27.68	90	J

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOW5K8

Lab Name: Recra.LabNet                      Work Order: 10985001001

Client: TNU-HANFORD B99-078

Matrix: (soil/water) SOIL

Lab Sample ID: 9908L863-007

Sample wt/vol: 30.0                      (g/mL) G

Lab File ID: A092112

Level: (low/med) LOW

Date Received: 08/25/99

% Moisture: 15    decanted: (Y/N)   

Date Extracted: 09/02/99

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 09/21/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N                      pH:       

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	18.18	100	J

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B0W5K9

Lab Name: Recra.LabNet                      Work Order: 10985001001

Client: TNU-HANFORD B99-078

Matrix: (soil/water) SOIL                      Lab Sample ID: 9908L863-008

Sample wt/vol: 30.0                      (g/mL) G                      Lab File ID: A092113

Level:            (low/med) LOW                      Date Received: 08/25/99

% Moisture: 7            decanted: (Y/N)                         Date Extracted: 09/02/99

Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 09/21/99

Injection Volume: 2.0 (uL)                      Dilution Factor: 1.00

GPC Cleanup:    (Y/N) N                      pH:       

Number TICs found: 2

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.36	80	J
2.	UNKNOWN	18.18	90	J

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SBLKCB
--------

Lab Name: Recra.LabNet                      Work Order: 10985001001

Client: TNU-HANFORD B99-078

Matrix: (soil/water) SOIL    Lab Sample ID: 99LE1076-MB1

Sample wt/vol: 30.0                      (g/mL) G    Lab File ID: D092105

Level:        (low/med) LOW    Date Received: 09/02/99

% Moisture:               decanted: (Y/N)        Date Extracted: 09/02/99

Concentrated Extract Volume: 1000(uL)    Date Analyzed: 09/21/99

Injection Volume: 2.0(uL)    Dilution Factor: 1.00

GPC Cleanup:    (Y/N) N    pH:       

Number TICs found:   0      CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

Recra LabNet - Lionville Laboratory  
 BNA ANALYTICAL DATA PACKAGE FOR  
 TNU-HANFORD B99-078

DATE RECEIVED: 08/25/99

RFW LOT # :9908L863

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
BOW5L0	001	S	99LE1076	08/23/99	09/02/99	09/21/99
BOW5L2	002	S	99LE1076	08/23/99	09/02/99	09/21/99
BOW5K4	003	S	99LE1076	08/23/99	09/02/99	09/21/99
BOW5K5	004	S	99LE1076	08/23/99	09/02/99	09/21/99
BOW5K6	005	S	99LE1076	08/23/99	09/02/99	09/21/99
BOW5K7	006	S	99LE1076	08/23/99	09/02/99	09/21/99
BOW5K8	007	S	99LE1076	08/23/99	09/02/99	09/21/99
BOW5K9	008	S	99LE1076	08/23/99	09/02/99	09/21/99
BOW5K9	008 MS	S	99LE1076	08/23/99	09/02/99	09/21/99
BOW5K9	008 MSD	S	99LE1076	08/23/99	09/02/99	09/21/99

LAB QC:

SBLKCB	MB1	S	99LE1076	N/A	09/02/99	09/21/99
SBLKCB	MB1 BS	S	99LE1076	N/A	09/02/99	09/21/99



9908L863

**ALL** FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Client <u>TNU-Hanford B99-078</u>	Refrigerator #	<u>1</u>	<u>6-1</u>					<u>6</u>	<u>6</u>	<u>6</u>					
Est. Final Proj. Sampling Date	#/Type Container	Liquid													
Project # <u>10985-001-001-9999-00</u>		Solid	<u>1g</u>	<u>1g</u>	<u>1</u>			<u>1g</u>	<u>1g</u>	<u>1g</u>					
Project Contact/Phone #	Volume	Liquid													
RECRA Project Manager <u>OT</u>		Solid	<u>2SD</u>	<u>5SD</u>	<u>1</u>			<u>5SD</u>	<u>2SD</u>	<u>10SD</u>					
QC <u>Apec</u> Del <u>std</u> TAT <u>30 days</u>	Preservatives														
Date Rec'd <u>8/25/99</u> Date Due <u>9/24/99</u>	ANALYSES REQUESTED →	ORGANIC					INORG								
Account #		VOA	BNA	Pest/PCB	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	RECRA LabNet Use Only									
			MS	MSD				H2O ZAH	H2O ZSH	OPeB	BSASC	DDRO	MethO	IPH	AngO		
			001	BOWSL0				S	8/23/99	0942	X	X	X	X	X	X	X
2	L2																
3	K9																
4	K5																
5	K6																
6	K7																
7	K8																
8	K9																

Run matrix QC

Special Instructions:  
Saf # B99-078

**COMPOSITE WASTE**

DATE/REVISIONS:  
Met ① = As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se,  
2. Ag, V, Zn, ICR6  
Ang ① = IN3NA, ICCL, ICFL, ICNO2, ICNO3  
4. ICPO4, IC504, ISFD, INH3N, ICNTO  
\* 5. 423579528657 - 3.20C  
6. 35 - 3.10C

RECRA LabNet Use Only	
Samples were: 1) Shipped <input checked="" type="checkbox"/> or Hand Delivered	COC Tape was: 1) Present on Outer Package <input checked="" type="checkbox"/> or N
Airbill # <u>*</u>	2) Unbroken on Outer Package <input checked="" type="checkbox"/> or N
2) Ambient or Chilled <input checked="" type="checkbox"/>	3) Present on Sample <input checked="" type="checkbox"/> or N
3) Received in Good Condition <input checked="" type="checkbox"/> or N	4) Unbroken on Sample <input checked="" type="checkbox"/> or N
4) Labels Indicate Properly Preserved <input checked="" type="checkbox"/> or N	COC Record Present Upon Sample Rec't <input checked="" type="checkbox"/> or N
5) Received Within Holding Times <input checked="" type="checkbox"/> or N	Cooler Temp. <u>3.6</u> C

Relinquished by	Received by	Date	Time
FedEx	<u>Yanson</u>	<u>8/25/99</u>	<u>0930</u>

Relinquished by	Received by	Date	Time
	<b>ORIGINAL REWRITTEN</b>		

Discrepancies Between Samples Labels and COC Record?  Y or  N

NOTES:  
\*423579528646