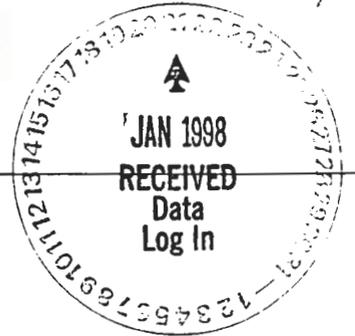# RECRA LabNet
a division of Recra Environmental, Inc.

Virtual Laboratories Everywhere

0048717

Recra LabNet Philadelphia
Analytical Report

Client : TNU HANFORD
RFW # : 9711L444
SDG #: H0121

W.O. #: 10985-001-001-9999-00
Date Received: 11-21-97

SEMIVOLATILE

One (1) soil sample was collected on 11-12-97.

The sample and its associated QC samples were extracted on 11-26-97 and 01-12-98 and analyzed according to criteria set forth in SW 846 Method 8270 for TCL Semivolatile target compounds on 12-01,02-97 and 01-19-98.

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 upon receipt has been recorded on the chain-of-custody.

2.   The matrix spike analyses were performed outside holding time (as per client request). A copy of the Sample Discrepancy Report (SDR) has been included in this data package.

3.   Non-target compounds were detected in sample BOMD81.

4.   All surrogate recoveries were within EPA QC limits.

5.   All blank spike recoveries were within EPA QC limits.

6.   All matrix spike recoveries were within EPA QC limits.

J. Michael Taylor
Vice President and Laboratory Manager
Lionville Analytical Laboratory

1-20 98
Date

mmz/bna/11-444b.cn

208 Welsh Pool Road • Lionville, PA 19341-1333 • (610)-280-3000 • Fax (610) 280-3041

Sample Disposition Record	Control #:	B97-050
	Revision#:	0
	Date Initiated:	7/1/97

Section 1 - BACKGROUND

SAF#: B97-120, B97-129, B97-133, B97-136

OU: 300-FF-1

Project ID: 300-FF-1 RD

Task ID: 1

Sampling Event: 300-FF-1 Process Trenches Verification Sampli, 300FF-1 SOUTH PROCESS POND, 300FF-1 NORTH

Laboratory: Quanterra, TMA   PROCESS POND, AND 300FF-1 ASHPITS / CLEAN SOIL.

Project Coordinator: Koerner. CC

Task Manager: Johnson. CR

Section 2 - SAMPLE INFORMATION

Number of Samples:

ID Numbers: ALL OFF-SITE SAMPLES.

MATRIX: Soil

Collection Date:

Section 3 - ISSUE

Class: Lab Direction

NCR Number: N/A

Type: Clarification of Direction

Description: Chain of Custody (COC) for off-site analysis requests SemiVOA (8270A) TCL list with benzo(a)pyrene and chrysene. COC also requests ICP metals (6010A) with add-ons for arsenic and thallium.

N/A

NCR Validation (Print/Sign)	Date

Section 4 - DISPOSITION

Type: Repair

Description: All off-site samples requesting SemiVOA or ICP metals analysis for SAF's B97-120, B97-129, B97-133, and B97-136 should be specifically analyzed for the mentioned tests as follows: Perform SemiVOA (8270A) analysis for benzo(a)pyrene and chrysene only. Perform ICP metals (6010A) analysis for arsenic and thallium only. Other requested analysis shall be performed according to COC directions.

Koerner. CC *C L Top L C. Kun*	7-8-97
Project Coordinator (Print/Sign)	Date
Johnson. CR *Charlie Johnson*	7/16/97
Task Manager (Print/Sign)	Date
N/A	
QA (Print/Sign)	Date

Section 5 - INSPECTION (Issue Class: Nonconformance Only)

Inspection Number: N/A

Inspection Results: N/A

N/A

Inspector (Print/Sign)	Date

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.

mmz\10-94\gloss.bna

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.

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Recra LabNet Philadelphia Sample Discrepancy Report (SDR) SDR #: 98C008

Initiator: 2Durke   RFW Batch: 9711L444   Parameter: OPCB, 0625
Date: 1-7-98   Samples: 001   Matrix: Soil
Client: TNU Hanford   Method: SW846/MCAWW/CLP/   Prep Batch: 97LE2226

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1. Reason for SDR
a. COC Discrepancy __ Tech Profile Error __ Client Request __ Sampler Error on C-O-C
__ Transcription Error __ Wrong Test Code __ Other _____

b. General Discrepancy
X Missing Sample/Extract __ Container Broken __ Wrong Sample Pulled __ Label ID's Illegible
__ Hold Time Exceeded __ Insufficient Sample __ Preservation Wrong __ Received Past Hold
__ Improper Bottle Type __ Not Amenable to Analysis

Note : Verified by [Log-In] or [Prep Group] (circle)...signature/date: _____

c. QC Problem (Include all relevant specific results; attach data if necessary)

No MS/MSD extracted although required
as indicated on the chain
BNA Data previously reported

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2. Known or Probable Causes(s) Extraction Scheduling error

→ second occurrance for this client

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3. Discussion and Proposed Action   Other Description:
__ Re-log
__ Entire Batch   Please advise
__ Following Samples: _____   Extract out of hold?
__ Re-leach
__ Re-extract
__ Re-digest
__ Revise EDD
__ Change Test Code to _____
__ Place On/Take Off Hold (circle)

---

4. Project Manager Instructions...signature/date: _____ 1/7/98 --
__ Concur with Proposed Action
__ Disagree with Proposed Action; See Instruction   Extract out of Hold.
X Include in Case Narrative
__ Client Contacted:
__ Date/Person _____
__ Add
__ Cancel

---

5. Final Action...signature/date: _____   Other Explanation:
__ Verified re-[log][leach][extract][digest][analysis] (circle)
__ Included in Case Narrative   BNA: batch 98LE0056   eldd 1/20/98   BNA report
__ Hard Copy COC Revised   PCB: batch 98LE0057   1-21-98
__ Electronic COC Revised   TM
__ EDD Corrections Completed

When Final Action has been recorded, forward original to QA Specialist for distribution and filing.

Route	Distribution of Completed SDR	Route	Distribution of Completed SDR
	X Initiator		__ Metals: Doughty
(1)	X Lab Manager: J. Michael Taylor		__ Inorganic: Perrone/Leonards
	X Project Mgr: Kyle Clay	(2)	__ GC/LC: Jarvis/Skrzat/Schnell (Rychlak)
	X Section Mgr: Siery/Durke/Daniels		__ MS: LeMin/McIntyre/Taylor/Kasdras/Steele
	X QA File: Feldman/Racioppi/Basuthakur		__ Log-in: Dodson
	__ Data Management: Miller		__ Admin: Brewer/Keehn/Shafer
	__ Sample Prep: Schnell/Swisher		__ Other: _____

RFW 21-21-006/E-05/97

004