

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.



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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.



Cust ID:	BOW9P1	BOW9P1	BOW9P1	SBLKCO	SBLKCO BS
RFW#:	002	002 MS	002 MSD	99LE1093-MB1	99LE1093-MB1
2-Chloronaphthalene	10 U	20 U	20 U	10 U	10 U
2-Nitroaniline	25 U	50 U	50 U	25 U	25 U
Dimethylphthalate	10 U	20 U	20 U	10 U	10 U
Acenaphthylene	10 U	20 U	20 U	10 U	10 U
2,6-Dinitrotoluene	10 U	20 U	20 U	10 U	10 U
3-Nitroaniline	25 U	50 U	50 U	25 U	25 U
Acenaphthene	10 U	85 %	76 %	10 U	82 %
2,4-Dinitrophenol	25 U	50 U	50 U	25 U	25 U
4-Nitrophenol	25 U	55 %	46 %	25 U	61 %
Dibenzofuran	10 U	20 U	20 U	10 U	10 U
2,4-Dinitrotoluene	10 U	90 %	82 %	10 U	85 %
Diethylphthalate	0.5 JB	20 U	20 U	0.5 J	10 U
4-Chlorophenyl-phenylether	10 U	20 U	20 U	10 U	10 U
Fluorene	10 U	20 U	20 U	10 U	10 U
4-Nitroaniline	25 U	50 U	50 U	25 U	25 U
4,6-Dinitro-2-methylphenol	25 U	50 U	50 U	25 U	25 U
N-Nitrosodiphenylamine (1)	10 U	20 U	20 U	10 U	10 U
4-Bromophenyl-phenylether	10 U	20 U	20 U	10 U	10 U
Hexachlorobenzene	10 U	20 U	20 U	10 U	10 U
Pentachlorophenol	25 U	74 %	82 %	25 U	87 %
Phenanthrene	10 U	20 U	20 U	10 U	10 U
Anthracene	10 U	20 U	20 U	10 U	10 U
Carbazole	10 U	20 U	20 U	10 U	10 U
Di-n-butylphthalate	0.7 JB	1 JB	20 U	0.8 J	0.8 JB
Fluoranthene	10 U	20 U	20 U	10 U	10 U
Pyrene	10 U	101 %	96 %	10 U	101 %
Butylbenzylphthalate	10 U	20 U	20 U	10 U	10 U
3,3'-Dichlorobenzidine	10 U	20 U	20 U	10 U	10 U
Benzo(a)anthracene	10 U	20 U	20 U	10 U	10 U
Chrysene	10 U	20 U	20 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	2 JB	14 JB	3 JB	4 J	5 JB
Di-n-octyl phthalate	10 U	20 U	20 U	0.5 J	10 U
Benzo(b)fluoranthene	10 U	20 U	20 U	0.6 J	10 U
Benzo(k)fluoranthene	10 U	20 U	20 U	10 U	10 U
Benzo(a)pyrene	10 U	20 U	20 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10 U	20 U	20 U	10 U	10 U
Dibenz(a,h)anthracene	10 U	20 U	20 U	10 U	10 U
Benzo(g,h,i)perylene	10 U	20 U	20 U	10 U	10 U

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

005

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B0W9P1

Lab Name: Recra.LabNet Work Order: 10985001001

Client: TNU-HANFORD B99-085

Matrix: (soil/water) WATER Lab Sample ID: 9909L006-002

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D091405

Level: (low/med) LOW Date Received: 09/03/99

% Moisture: decanted: (Y/N) Date Extracted: 09/08/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/14/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.92	2	J
2.	UNKNOWN	21.80	2	J

Recra LabNet - Lionville Laboratory
BNA ANALYTICAL DATA PACKAGE FOR
TNU-HANFORD B99-085

DATE RECEIVED: 09/03/99

RFW LOT # :9909L006

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B0W9P1	002	W	99LE1093	09/01/99	09/08/99	09/14/99
B0W9P1	002 MS	W	99LE1093	09/01/99	09/08/99	09/14/99
B0W9P1	002 MSD	W	99LE1093	09/01/99	09/08/99	09/14/99

LAB QC:

SBLKCO	MB1	W	99LE1093	N/A	09/08/99	09/14/99
SBLKCO	MB1 BS	W	99LE1093	N/A	09/08/99	09/14/99

Bechtel Hanford Inc.	000	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B99-085-03	Page 1
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Collector Doug Bowers/Brent Porter	Company Contact Chris Cearlock	Telephone No. 372-9574	Project Coordinator TRENT, SJ	Price Code 7N	Data Turnaround 45 Days
Project Designation 200 Area Source characterization - 200-CW-1 OU - QC Sa	Sampling Location 200 East 200 CW1 GP #12 9-1-99 AS-103	SAF No. B99-085			
Ice Chest No. ELC96-035	Field Logbook No. EL-1511	Method of Shipment Federal Express			
Shipped To TMA/RECRA 9-1-99	Offsite Property No. A990243	Bill of Lading/Air Bill No. 423570529057			
COA B20CW1671C					

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	ZnAc+NaOH to pH >9 Cool	Cool 4C	H2SO4 to pH <2 Cool 4C	Cool 4C	HNO3 to pH <2	HCl to pH <2 Cool 4C	HNO3 to pH <2			
		Type of Container	P	P	P	aG	G/P	aGs*	P		
		No. of Container(s)	1	1	1	2	2	3	3		
Special Handling and/or Storage	Volume	500mL	1000mL	1000mL	1000mL	1000mL	40mL	500mL			

SAMPLE ANALYSIS	Sulfides - 9030	See item (1) in Special Instructions.	NO2/NO3 - 353.1; Ammonia - 350.3	Semi-VOA - 8270A (TCL)	Gross Alpha; Gross Beta	VOA - 8260A (TCL); VOA - 8260A (Add-On) (1-Propanol, Ethanol)	See item (2) in Special Instructions.		

Sample No.	Matrix *	Sample Date	Sample Time						
B0W9P0	Water	9-1-99	0500					X	
B0W9P1	Water	9-1-99	0630	X	X	X	X	X	X

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS See Chain of Custody comments on SAF for special instructions.	Matrix *
Relinquished By Doug Bowers 9-1-99/1200	Received By R. F. IA 9-1-99/1200	(1) IC Anions - 300.0 (Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate); pH (Water) - 9040 (2) ICP Metals - 6010A (Supertrace) (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver); ICP Metals - 6010A (Supertrace Add-On) (Copper, Nickel, Vanadium, Zinc) collector unavailable to relinquish samples. From non Rod area	Soil Water Vapor Other Solid Other Liquid
Relinquished By REF # IA 9/2/99 1230	Received By KENET Nicks / R. Nelson 9/2/99		
Relinquished By KENET Nicks / R. Nelson 9/2/99	Received By FedEx		
Relinquished By FedEx 9-3-99 0930	Received By JMurray 9-3-99 0930		
LABORATORY SECTION	Received By _____ Title _____	Date/Time _____	
FINAL SAMPLE DISPOSITION	Disposal Method _____	Disposed By _____	Date/Time _____