

0052022

**Environmental
Restoration
Contractor** **ERC Team**
Interoffice Memorandum

Job No. 22192
Written Response Required? NO
Closes CCN: N/A
OU: 200-ZP-1
TSD: N/A
ERA: N/A
Subject Code: 8630

TO: M. A. Buckmaster, H4-80
J. A. Lerch, B1-35

DATE: October 29, 1996

COPIES: See Below

FROM: R. T. Coffman
Analytical Services/Field Services
H9-11/372-9373

SUBJECT: 200-ZP-1 PHASE II PERFORMANCE MONITORING, GROUNDWATER RESULTS, OCTOBER 1996, REV 0

REFERENCES:

1. BHI, 1996, *On-Site Measurements Quality Assurance Plan*, BHI-00852, REV 0, Bechtel Hanford, Inc., Richland, Washington.
2. BHI, 1995, *Field Screening Procedures*, BHI-EE-05, Bechtel Hanford, Inc., Richland, Washington.
3. BHI, 1995a, *200-ZP-1 Field Screening Support Logbook*, EL-1273, Bechtel Hanford, Inc., Richland, Washington.

This data package contains field screening results for groundwater samples analyzed to support 200-ZP-1 IRM Phase II performance monitoring. The Quality Assurance level for this work corresponds to QA-1 as specified in the reference 1 (BHI 1996). Samples collected and analyzed during October 1996 were managed under SAF B97-001.

Attachment 1 contains Volatile Organic Compound (VOC) results for groundwater samples collected to support the referenced project. The VOC results were generated using a Hewlett Packard 5890 gas chromatograph with a headspace autosampler operated in accordance with Field Screening Procedure (FSP) 1.1, *Aqueous Headspace Analysis of Volatile Organic Compounds in Water* (BHI 1995). Information concerning operation and calibration of the gas chromatograph is contained in the instrument logbook EL-1329. Please contact me if you have any questions on this information.

R. T. Coffman, Engineer/Analyst

RTC:rtc



M. A. Buckmaster, H4-80

Page 2

Attachments:

Attachment 1. 200-ZP-1 IRM Phase II Performance Monitoring, Groundwater Results, October 1996

Attachment 2. Sample Chain of Custody Sheets

Copies:

J. R. Freeman-Pollard, H9-12, w/attachment 1 only

B. H. Ford, H0-02, w/attachment 1 only

I. D. Jacques, H9-10, w/attachment 1 only

A. Hopkins, H9-11, w/attachment 1 only

T. D. LeFrancois, H9-03, w/attachment 1 only

D. A. Myers, H9-11, w/attachment 1 only

K. M. Singleton, H9-11, w/attachment 1 only

L. C. Swanson, H9-11, w/attachment 1 only

BHI Document Control, H4-79, w/original attachments

200-ZP-1 Phase II Performance Monitoring
Groundwater Results, October 1996
SAF B97-001

Sample Location	HEIS Number	Sample Date	Analysis Date	Chloroform (µg/L)	Carbon Tetrachloride (µg/L)	Trichloroethylene (µg/L)
299-W15-16	B0J2D2	10/10/96	10/16/96	27	4200	5.3
299-W15-18	B0J2D3	10/9/96	10/16/96	27	2800	4.4
299-W15-24	B0J2C6	10/8/96	10/16/96	32	450	<2.0
299-W15-30	B0J2C7	10/10/96	10/16/96	91	5300	6.4
299-W15-31A	B0J2c8	10/10/96	10/16/96	69	4400	7.8
Duplicate @ 299-W15-31A	B0J2C3	10/10/96	10/16/96	71	4600	7.7
299-W18-23	B0J2C9	10/8/96	10/16/96	5.6	710	<2.0
299-W18-24	B0J2D5	10/9/96	10/16/96	22	1100	<2.0
299-W18-26	B0J2D0	10/8/96	10/16/96	16	190	<2.0
Trip Blank	B0J2D7	10/8/96	10/16/96	<2.0	<2.0	<2.0
Trip Blank	B0J2D8	10/9/96	10/16/96	<2.0	<2.0	<2.0
Trip Blank	B0J2D9	10/10/96	10/16/96	<2.0	<2.0	<2.0

j - Value less than practical quantitation limit

Analyst:


 R.T. Coffman

VOA Instrument: Hewlett Packard 5890 GC, Serial # 3235A47685

Method: Dual DB-VRX columns, ECD/FID, 1 mL headspace injection

Logbook: 200-ZP-1 Field Logbook, EL-1273, pgs 96 to 97

Collector <i>Dave Bryant / Ken Trapp</i>	Company Contact J. R. Freeman-Pollard	Telephone No. (509) 372-9347	Data Turnaround Field
Project Designation 200-ZP-1 Interim Remedial Measurements	Sampling Location 200 W	SAF No. B96-155	
Ice Chest No. <i>NA</i>	Field Logbook No. <i>EFL-423-2</i>	Method of Shipment Hand Delivered	
Shipped To Mobile Laboratory	Offsite Property No. NA	Bill of Lading/Air Bill No. NA	

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	HCl to pH <2																		
	Type of Container	Gs*																		
	No. of Container(s)	1																		
Special Handling and/or Storage Maintain samples between 2 degrees C and 6 degrees C.	Volume	40ml																		

SAMPLE ANALYSIS		See item (1) in Special Instructions.																		
-----------------	--	---------------------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Sample No.	Matrix *	Sample Date	Sample Time																	
B0HZ45	Water	9-17-96	1201	X																
B0HZM5	water	9-17-96	0812	X																
B0HZ46	W	9/17/96	1318	X																
B0HZM3	W	9/17/96	1318	X																

CHAIN OF POSSESSION	Sign/Print Names				SPECIAL INSTRUCTIONS Deliver samples to Field Screening personnel.												Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
	Relinquished By <i>K. Trapp / K. Trapp</i>	Date/Time 9/17/96 1330	Received By <i>JT Freeman / JT Freeman</i>	Date/Time 9/17/96 1350	(1) VOA BY FIELD GC -- Chlorinated Hydrocarbon (Carbon tetrachloride, Chloroform, Trichloroethene)												
	Relinquished By	Date/Time	Received By	Date/Time													
	Relinquished By	Date/Time	Received By	Date/Time													

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

B97-001-9

Page 1 of 1

Collector Al Rizzo / D 6511	Company Contact M, A. Buckmaster	Telephone No. 509-372-9272	Project Coordinator Koerner, CC	Data Turnaround 0 Field
Project Designation 200-ZP-1 Phase II Operations Water Monitor Sampling - 1997	Sampling Location 200 ZP-1	SAF No. B97-001		
Ice Chest No.	Field Logbook No. EFL-1123-2	Method of Shipment Hand Delivered		
Shipped To Mobile Laboratory	Offsite Property No. N/A	Bill of Lading/Air Bill No. N/A		

POSSIBLE SAMPLE HAZARDS/REMARKS None	Preservation	HCl to pH <2							
	Type of Container	Gs							
	No. of Container(s)	1							
Special Handling and/or Storage Maintain samples between 2 and 6 degrees C	Volume	40ml							

SAMPLE ANALYSIS	See item (1) in Special Instructions.	
------------------------	---------------------------------------	--

Sample No.	Matrix *	Sample Date	Sample Time								
B0J2C9	Water	10-8-96	0932	X							
B0J2D7	W	10-8-96	0940	X							
B0J2D0	W	10-8-96	1037	X							
B0J2C6	W	10-8-96	1158	X							

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS	Matrix *
Relinquished By: <i>A.G. Rizzo</i> Date/Time: 10-8-96 1400	Received By: <i>K. D. Mann / K. Trapp</i> Date/Time: 10/9/96 1400	(1) VOA BY FIELD GC - Chlorinated Hydrocarbon {Carbon tetrachloride, Chloroform, Trichloroethene}	S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids T - Tissue WI - Wipe L - Liquid V - Vegetation X - Other
Relinquished By: <i>K. D. Mann / K. Trapp</i> Date/Time: 10/16/96 0845	Received By: <i>R. Coffman / R. Coffman</i> Date/Time: 10/16/96 0845		
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____		
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____		

LABORATORY SECTION	Received By _____	Title _____	Date/Time _____
FINAL SAMPLE DISPOSITION	Disposal Method _____	Disposed By _____	Date/Time _____

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

B97-001-13

Page 1 of 1

Collector Al Rizzo / D. Call	Company Contact M. A. Buckmaster	Telephone No. 509-372-9272	Project Coordinator Koerner, CC	Data Turnaround 0 Field
---------------------------------	-------------------------------------	-------------------------------	------------------------------------	----------------------------

Project Designation 200-ZP-1 Phase II Operations Water Monitor Sampling -- 1997	Sampling Location 200 ZP-1	SAF No. B97-001
--	-------------------------------	--------------------

Ice Chest No.	Field Logbook No. E.FZ-1123-2	Method of Shipment Hand Delivered
---------------	----------------------------------	--------------------------------------

Shipped To Mobile Laboratory	Offsite Property No. N/A	Bill of Lading/Air Bill No. N/A
---------------------------------	-----------------------------	------------------------------------

POSSIBLE SAMPLE HAZARDS/REMARKS None	Preservation	HCl to pH <2																		
	Type of Container	Gs																		
	No. of Container(s)	1																		

Special Handling and/or Storage Maintain samples between 2 and 6 degrees C	Volume	40ml																		
---	--------	------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SAMPLE ANALYSIS	See item (1) in Special Instructions.																			
-----------------	---------------------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Sample No.	Matrix *	Sample Date	Sample Time																	
B0J2D3	Water	10-9-96	0935	X																
B0J2D8	Water	10-9-96	0745	X																
B0J2D5	Water	10-9-96	1114	X																

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS	Matrix *
Relinquished By <i>Diane Call</i>	Date/Time	(1) VOA BY FIELD GC - Chlorinated Hydrocarbon (Carbon tetrachloride, Chloroform, Trichloroethene) <i>K. Trapp is failing to 10/16/96 Relinquishing for B. Whitten who is not available.</i>	S - Soil
Received By <i>EAC</i>	Date/Time <i>1216</i>		SE - Sediment
Relinquished By <i>Diane Call</i>	Date/Time <i>10-9-96/12:10</i>		SO - Solid
Received By <i>B. Whitten</i>	Date/Time <i>10-9-96</i>		SL - Sludge
Relinquished By <i>K. Trapp</i>	Date/Time <i>0845</i>		W - Water
Received By <i>R. Coffman</i>	Date/Time <i>0845</i>		O - Oil
Relinquished By <i>K. Trapp</i>	Date/Time <i>10/16/96</i>		A - Air
Received By <i>R. Coffman</i>	Date/Time <i>10/16/96</i>		DS - Drum Solids
Relinquished By	Date/Time		DL - Drum Liquids
Received By	Date/Time		T - Tissue
			WI - Wipe
			L - Liquid
			V - Vegetation
			X - Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

B97-001-8

Page 1 of 1

Collector Al Rizzo	Company Contact M, A, Buckmaster	Telephone No. 509-372-9272	Project Coordinator Koerner, CC	Data Turnaround 0 Field
Project Designation 200-ZP-1 Phase II Operations Water Monitor Sampling -- 1997	Sampling Location 200 ZP-1	SAF No. B97-001		
Ice Chest No.	Field Logbook No. ER-1123-D	Method of Shipment Hand Delivered		
Shipped To Mobile Laboratory	Offsite Property No. N/A	Bill of Lading/Air Bill No. N/A		

POSSIBLE SAMPLE HAZARDS/REMARKS None	Preservation	HCl to pH <2																		
	Type of Container	Gs																		
	No. of Container(s)	1																		
Special Handling and/or Storage Maintain samples between 2 and 6 degrees C	Volume	40ml																		

SAMPLE ANALYSIS	See item (1) in Special Instructions.																			
-----------------	---------------------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Sample No.	Matrix *	Sample Date	Sample Time																	
B0J2C8	Water	10/10/96	1030	X																
B0J2D1	W	10/10/96	0740	X																
B0J2C3	W	10/10/96	1030	X																
B0J2C7	W	10/10/96	1210	6																
B0J2D2	W	10-10-96	1253	0																

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS	Matrix *
Relinquished By <i>A.G. Rizzo (ER)</i>	Date/Time 10/14/96 1415	(1) VOA BY FIELD GC -- Chlorinated Hydrocarbon (Carbon tetrachloride, Chloroform, Trichloroethene)	<ul style="list-style-type: none"> S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Received By <i>K. Umapp / K. Trapp</i>	Date/Time 10/10/96 1415		
Relinquished By <i>K. Umapp / K. Trapp</i>	Date/Time 10/16/96 0845		
Received By <i>R. Coffman / R. Coffman</i>	Date/Time 10/18/96		
Relinquished By	Date/Time		
Received By	Date/Time		

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time