

Environmental  
Restoration  
Contractor

**ERC Team**

**Interoffice Memorandum**



0052039

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: April 11, 1997

COPIES: See Below

FROM: R. T. Coffman  
Onsite Measurement Services  
H9-11/372-9373

SUBJECT: 200-ZP-1 PHASE II PUMP AND TREAT PROCESS MONITORING, FIELD SCREENING RESULTS, SPLIT SAMPLE B0JXJ5, MARCH 13, 1997

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, 1995, *200-ZP-1 Field Screening Support Logbook*, EL-1273, Bechtel Hanford, Inc., Richland, Washington.

The following data is field screening results for process water split sample B0JXJ5. This sample is for comparative analysis to off-site laboratory analysis, as part of the monitoring requirements of the 200-ZP-1 Phase II Pump and Treat System during the first quarter of FY 1997. The Quality Assurance level for this work corresponds to QA-1 as specified in the reference 1 (BHI 1996). The sample collected and analyzed was managed under SAF B97-002.

Table 1 contains Volatile Organic Compound (VOC), and pH results for the process water split sample for 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). The pH results were acquired using an Orion 290A pH meter. Information concerning operation and calibration of the gas chromatograph is contained in the instrument logbook EL-1329 and logbook EL-1273 for the Orion 290A pH meter. 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

**Table 1**

<b>Sample Location</b>	<b>HEIS Number</b>	<b>Sample Date</b>	<b>Analysis Date</b>	<b>Chloroform (ug/L)</b>	<b>Carbontetrachloride (ug/L)</b>	<b>TCE (ug/L)</b>	<b>pH</b>
200-ZP-1	B0JXJ5	3/13/97	3/19/97	12.	2600.	8.8	7.9

**Attachments:**

Attachment 1- Sample Chain of Custody Sheet

**Copies:**

B. H. Ford, H0-02, wo/attachment

I. D. Jacques, H9-10, wo/attachment

R.B. Kerkow, H9-10, wo/attachment

J. E. Hodgson, T7-12, wo/attachment

D.A. St. John, N1-28, wo/attachment

S. A. Strobe, T7-12, wo/attachment

L. C. Swanson, H9-11, wo/attachment

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

Bechtel Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

B97-002-22

Page 1 of 1

Collector Doug Bryant/Dave St. John	Company Contact Jhivaun Freeman-Pollard	Telephone No. 372-9347	Project Coordinator Koerner, CC	Data Turnaround Field
Project Designation 200-ZP-1Phase II Process Sampling and Analysis	Sampling Location 200 West	SAF No. B97-002		
Ice Chest No. 6W5044	Field Logbook No. EL-1330	Method of Shipment		
Shipped To Mobile Laboratory? <i>Randy Coffman</i>	Offsite Property No.	Bill of Lading/Air Bill No.		

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	None HCL	None	None
	Type of Container	Gs	P	P
	No. of Container(s)	3	1	1
	Special Handling and/or Storage	Volume 20ml 4ml	125	20

SAMPLE ANALYSIS	See item (1) in Special Instructions.	pH(water) 9.40	Activity Scan
-----------------	---------------------------------------	-------------------	------------------

Sample No.	Matrix *	Sample Date	Sample Time										
605XJ5	water	3-13-97	1035	X	X	X							

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS	Matrix *
Relinquished By <i>Randy Coffman</i> Date/Time 1305	Received By <i>Doug Bryant</i> Date/Time 1305	(1) VOA BY FIELD GC - Chloronated Hydrocarbon (Carbon tetrachloride, Chloroform, Trichloroethene)	S - Soil
Relinquished By <i>Dave St. John</i> Date/Time 3/14/97	Received By <i>Doug Bryant</i> Date/Time 3-14-97		SE - Sediment
Relinquished By <i>Dave St. John</i> Date/Time 1238	Received By <i>Randy Coffman</i> Date/Time 3/10/97		SO - Solid
Relinquished By <i>Dave St. John</i> Date/Time	Received By <i>Randy Coffman</i> Date/Time		SL - Sludge
Relinquished By	Received By		W - Water
Relinquished By	Received By		O - Oil
Relinquished By	Received By		A - Air
Relinquished By	Received By		DS - Drum Solids
Relinquished By	Received By		DL - Drum Liquids
Relinquished By	Received By		T - Tissue
Relinquished By	Received By		WI - Wipe
Relinquished By	Received By		L - Liquid
Relinquished By	Received By		V - Vegetation
Relinquished By	Received By		X - Other

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

Collector: Doug Bryant/Dave St. John  
 Company Contact: Jhivaun Freeman-Pollard  
 Telephone No.: 372-9347  
 Project Coordinator: Koerner, CC  
 Data Turnaround: Field

Project Designation: 200-ZP-1Phase II Process Sampling and Analysis  
 Sampling Location: 200 West  
 SAF No.: B97-002

Ice Chest No.: **GW5044**  
 Field Logbook No.: EL-1330  
 Method of Shipment:

Shipped To: Mobile Laboratory? *Randy Coffman*  
 Offsite Property No.:  
 Bill of Lading/Air Bill No.:

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	None		
		HCL	None	None
	Type of Container	Gs	P	P
	No. of Container(s)	3	1	1

Special Handling and/or Storage: Volume: <sup>20ml</sup> 4ml, 125, 20

SAMPLE ANALYSIS

See item (1) in Special Instructions.  
 PH(water) 9.40  
 Actual Scan

Sample No.	Matrix *	Sample Date	Sample Time										
605XJ5	water	3-13-97	1035	X	X	X							

CHAIN OF POSSESSION

Sign/Print Names

SPECIAL INSTRUCTIONS

(1) VOA BY FIELD GC -- Chlorinated Hydrocarbon (Carbon tetrachloride, Chloroform, Trichloroethene)

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>Rhonda Weger</i> <i>Rhonda Weger</i>	Date/Time: 1305 3/14/97	Received By: <i>Doug Bryant</i> <i>Doug Bryant</i>	Date/Time: 1305 3-14-97
Relinquished By: <i>Dave Bryant</i>	Date/Time: 1258 3/14/97	Received By: <i>Randy Coffman</i> <i>Randy Coffman</i>	Date/Time: 1238 3/14/97
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