

0052010

**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  
M. J. Galgoul, H9-12

DATE: April 21, 1997

COPIES: See Below

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

SUBJECT: **200-ZP-1 PHASE II PERFORMANCE MONITORING, GROUNDWATER RESULTS, MARCH 1997, REV 0**

REFERENCES:

1. BHI, 1997, *On-Site Measurements Quality Assurance Plan*, BHI-QA-03, Plan 5.2, REV 1, Bechtel Hanford, Inc., Richland, Washington.
2. BHI, 1995, *Field Screening Procedures*, BHI-EE-05, Bechtel Hanford, Inc., Richland, Washington.
3. BHI, 1997, *200-ZP-1 Field Screening Support Logbook*, EL-1359, 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 QC-1 as specified in reference 1 (BHI 1997). Samples collected and analyzed during March 1997 were managed under SAF C97-014, C97-015, and C97-018

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) 1.29, *Aqueous Headspace Analysis of Volatile Organic Compounds in Water Using Hewlett Packard 5890 Gas Chromatograph* (BHI 1997). 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

*R.T. Coffman*  
RTC:rtc



Attachments:

M. A. Buckmaster, H4-80

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Attachment 1. 200-ZP-1 IRM Phase II Performance Monitoring, Groundwater Results,  
March 1997

Attachment 2. Sample Chain of Custody Sheets

Copies:

D. E. Ayres, B1-35, w/attachments 1 and 2

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

J. D. Isaacs, H0-19, w/attachment 1 only

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

R. B. Kerkow, H9-10, w/attachment 1 only

S. A. Strobe, T7-12, w/attachment 1 only

D. A. St John, N1-28, 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, March 1997**  
**SAF C97-014, C97-015, and C97-018**

<i>Sample Location</i>	<i>HEIS Number</i>	<i>Sample Date</i>	<i>Analysis Date</i>	<i>Chloroform (µg/L)</i>	<i>Carbon Tetrachloride (µg/L)</i>	<i>Trichloroethylene (µg/L)</i>
299-W15-1	BOJRN7	3/20/97	3/27/97	24	3000	17
Duplicate @ 299-W15-1	BOJRN8	3/20/97	3/27/97	23	2600	16
299-W15-7	BOJRN9	3/19/97	3/27/97	40	2600	19
299-W15-10	BOJRP0	3/19/97	3/27/97	33	3200	15
299-W15-11	BOJRP1	3/19/97	3/27/97	26	2600	6.5
299-W15-30	BOJRP7	3/20/97	3/27/97	61	6000	9.4
299-W15-31A	BOJRP9	3/20/97	3/27/97	44	4000	8.0
299-W15-38	BOJRP4	3/20/97	3/27/97	32	2400	<2.0
299-W18-23	BOJRP6	3/18/97	3/27/97	2.1	380	<2.0
299-W18-26	BOJKZ6	3/18/97	3/27/97	33	300	<2.0
699-39-79	BOJKZ5	3/18/97	3/27/97	<2.0	170	<2.0
699-47-60	BOKOV5	3/28/97	4/2/97	<2.0	<2.0	<2.0
699-51-63	BOKOV6	3/24/97	3/27/97	<2.0	<2.0	<2.0

j - Value less than practical quantitation limit

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-1359

Analyst:

*R. T. Coffman* 4-21-97  
 R. T. Coffman

Collector JG HOGAN (RFS)	Company Contact J.H. KESSNER	Telephone No. (509) 372-9538	Project Coordinator Stewart, DL	Data Turnaround Field
Project Designation 200-ZP-1 IRM (Group 1) Groundwater Sampling--FY1997	Sampling Location 200-W	SAF No. C97-014		
Ice Chest No.	Field Logbook No. WHC-N-205 #65	Method of Shipment GOUT. TRUCK		
Shipped To Mobile Laboratory	Offsite Property No. N/A	Bill of Lading/Air Bill No. N/A		

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	HCl to pH <2 Cooled to 4C											
	Type of Container	Gs*											
	No. of Container(s)	1											
Special Handling and/or Storage	Volume	40ml											
SAMPLE ANALYSIS		VOA BY FIELD GC -- Chlorinated Hydrocarbon											

Sample No.	Matrix *	Sample Date	Sample Time										
BOJRN7	Water	3-20-97	0919	X									

CHAIN OF POSSESSION	Sign/Print Names		SPECIAL INSTRUCTIONS TOTAL ACTIVITY EXEMPT										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 JG HOGAN (RFS)	Date/Time 3-25-97 1000	Received By R2 Steffler R.P. Hoff	Date/Time 3-25-97 1000											
	Relinquished By R.P. Hoff	Date/Time 3-25-97 1015	Received By R.T. Coffman R.T. Coffman	Date/Time 3-25-97											
	Relinquished By	Date/Time	Received By	Date/Time											

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

05415

Collector <b>JG HOGAN (RFS)</b>	Company Contact J.H. KESSNER	Telephone No. (509) 372-9538	Project Coordinator Stewart, DL	Data Turnaround Field
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Project Designation 200-ZP-1 IRM (Group 1) Groundwater Sampling--FY1997	Sampling Location 200-W	SAF No. C97-014
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Ice Chest No.	Field Logbook No. WHC-N-205 #65	Method of Shipment GOVT. TRUCK
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Shipped To Mobile Laboratory	Offsite Property No. N/A	Bill of Lading/Air Bill No. N/A
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POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	HCl to pH <2 Cooled to 4C																		
	Type of Container	Gs*																		
	No. of Container(s)	1																		

Special Handling and/or Storage	Volume	40ml																		
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SAMPLE ANALYSIS	VOA BY FIELD GC -- Chlorinated Hydrocarbon																			
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Sample No.	Matrix *	Sample Date	Sample Time																	
BOJRN8	Water	3-20-97	0919																	

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS TOTAL ACTIVITY EXEMPT	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 JG HOGAN (RFS)	Date/Time 3-25-97 1000	Received By R2 Stiller R.P. Still	Date/Time 3-25-97 1000
Relinquished By R.P. Still	Date/Time 3-25-97 1015	Received By RT Coffman RT Coffman	Date/Time 3-25-97
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

LABORATORY SECTION	Received By	Title	Date/Time
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FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time
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Collector **RF THORNTON (RFS)** Company Contact **J.H. KESSNER** Telephone No. **(509) 372-9538** Project Coordinator **Stewart, DL** Data Turnaround **Field**

Project Designation **200-ZP-1 IRM (Group 1) Groundwater Sampling-FY1997** Sampling Location **200-W 299-1415-10** SAF No. **C97-014**

Chest No. **SAL 325** Field Logbook No. **WHC N. 205-63** Method of Shipment **GOVT U.S. 14**

Shipped To **Mobile Laboratory** Offsite Property No. **MA** Bill of Lading/Air Bill No. **MA**

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	HCl to pH <2 Cooled to 4C									
	Type of Container	Gs*									
	No. of Container(s)	1									
Special Handling and/or Storage	Volume	40ml									

SAMPLE ANALYSIS

VOA BY  
FIELD GC -  
Chlorinated  
Hydrocarbon

Sample No.	Matrix *	Sample Date	Sample Time									
10JRPO	Water	MAR 19 1997	1103	X								

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS TOTAL ACTIVITY EXEMPT	Matrix *
Relinquished By <b>RF THORNTON (RFS)</b>	Date/Time <b>1350</b> <b>MAR 19 1997</b>	Received By <b>KB Hulse</b>	Date/Time <b>1350</b> <b>3-19-97</b>
Relinquished By <b>KB Hulse</b>	Date/Time <b>13:42</b>	Received By <b>RT Coffman</b>	Date/Time <b>1342</b> <b>3/19/97</b>
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

- 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

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

Collector: RF THORNTON (RFS)      Company Contact: J.H. KESSNER      Telephone No.: (509) 372-9538      Project Coordinator: Stewart, DL      Data Turnaround: Field

Project Designation: 200-ZP-1 IRM (Group 1) Groundwater Sampling--FY1997      Sampling Location: 200-W 299-W15-11      SAF No.: C97-014

Chest No.: SML 325      Field Logbook No.: WHC-N-205-63      Method of Shipment: FAA GOVT UEH

Shipped To: Mobile Laboratory      Offsite Property No.: NA      Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	HCl to pH <2 Cooled to 4C													
	Type of Container	Gs*													
	No. of Container(s)	1													
Special Handling and/or Storage	Volume	40ml													

SAMPLE ANALYSIS

VOA BY  
FIELD GC--  
Chlorinated  
Hydrocarbon

Sample No.	Matrix *	Sample Date	Sample Time												
30JRP1 ✓	Water	MAR 19 1997	0958	X											

CHAIN OF POSSESSION		Sign/Print Names	
Relinquished By	Date/Time	Received By	Date/Time
RF THORNTON (RFS)	MAR 18 1997 1330	KB Hulce	3-19-97 1530
Relinquished By	Date/Time	Received By	Date/Time
KB Hulce	3-19-97 1342	RT Coffman	3/19/97 1342
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

SPECIAL INSTRUCTIONS  
TOTAL ACTIVITY EXEMPT

- 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

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

# CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Collector <b>JG HOGAN (RFS)</b>	Company Contact <b>J.H. KESSNER</b>	Telephone No. <b>(509) 372-9538</b>	Project Coordinator <b>Stewart, DL</b>	Data Turnaround <b>Field</b>
Project Designation <b>200-ZP-1 IRM (Group 2) Groundwater Sampling--FY1997</b>	Sampling Location <b>200-W</b>	SAF No. <b>C97-015</b>		
Ice Chest No.	Field Logbook No. <b>WHC-N-205 #65</b>	Method of Shipment <b>GOVT. TRUCK</b>		
Shipped To <b>Mobile Laboratory</b>	Offsite Property No. <b>N/A</b>	Bill of Lading/Air Bill No. <b>N/A</b>		

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	HCl to pH <2 Cooled to 4C							
	Type of Container	Gs*							
	No. of Container(s)	1							
	Special Handling and/or Storage	Volume	40ml						

SAMPLE ANALYSIS									
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Sample No.	Matrix *	Sample Date	Sample Time						
30JRP7	Water	3-20-97	1017	X					

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS TOTAL ACTIVITY EXEMPT DOES NOT APPLY <i>sd</i> 3-13-97	Matrix *
Relinquished By <b>JG HOGAN (RFS)</b>	Date/Time <b>3-25-97 1000</b>	Received By <i>R. J. Kessner</i>	Date/Time <b>3-25-97 1000</b>
Relinquished By <i>R. J. Kessner</i>	Date/Time <b>3-25-97 1015</b>	Received By <i>R. J. Kessner</i>	Date/Time <b>3-25-97 1015</b>
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

- 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

Collector JG HOGAN (RFS)	Company Contact J.H. KESSNER	Telephone No. (509) 372-9538	Project Coordinator Stewart, DL	Data Turnaround Field
Project Designation 200-ZP-1 IRM (Group 2) Groundwater Sampling--FY1997	Sampling Location 200-W	299-415-310	SAF No. C97-015	
Ice Chest No.	Field Logbook No. WHC-N-205 #65		Method of Shipment BOAT TRUNK	
Shipped To Mobile Laboratory	Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	HCl to pH <2 Cooled to 4C																		
	Type of Container	Gs*																		
	No. of Container(s)	1																		
Special Handling and/or Storage	Volume	40ml																		

SAMPLE ANALYSIS		VOA BY FIELD GC - Chlorinated Hydrocarbon																		
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Sample No.	Matrix *	Sample Date	Sample Time																		
30JRP9	Water	3-20-97	1139	X																	

CHAIN OF POSSESSION	Sign/Print Names		SPECIAL INSTRUCTIONS TOTAL ACTIVITY EXEMPT DOES NOT APPLY <i>rd</i> 3-13-97										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 JG HOGAN (RFS)	Date/Time 3-25-97 1600	Received By R2 Steffler	Date/Time 3-25-97 1000											
	Relinquished By R.P. Steffler	Date/Time 3-25-97 1015	Received By R.J. COFFMAN	Date/Time 3-25-97											
	Relinquished By	Date/Time	Received By	Date/Time											

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

Collector <b>JG HOGAN (RFS)</b>	Company Contact <b>J.H. KESSNER</b>	Telephone No. <b>(509) 372-9538</b>	Project Coordinator <b>Stewart, DL</b>	Data Turnaround Field
Project Designation <b>200-ZP-1 IRM (Group 1) Groundwater Sampling--FY1997</b>	Sampling Location <b>200-W</b>	<b>299-1015-38</b>	SAF No. <b>C97-014</b>	
Ice Chest No.	Field Logbook No. <b>WAC-N-205 #65</b>		Method of Shipment <b>GOVT. TRUCK</b>	
Shipped To Mobile Laboratory	Offsite Property No. <b>N/A</b>		Bill of Lading/Air Bill No. <b>N/A</b>	

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	HCl to pH <2 Cooled to 4C												
	Type of Container	Gs*												
	No. of Container(s)	1												
Special Handling and/or Storage	Volume	40ml												

SAMPLE ANALYSIS		VOA BY FIELD GC -- Chlorinated Hydrocarbon												
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Sample No.	Matrix *	Sample Date	Sample Time											
BOJRP4	Water	3-20-97	1250	X										

CHAIN OF POSSESSION	Sign/Print Names		SPECIAL INSTRUCTIONS TOTAL ACTIVITY EXEMPT DOES NOT APPLY <i>del</i> 3-13-97										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 <b>JG HOGAN (RFS)</b>	Date/Time <b>3-25-97 1000</b>	Received By <b>RZ Stiller</b>	Date/Time <b>3-25-97 1000</b>											
	Relinquished By <b>R.Z. Stiller</b>	Date/Time <b>3-25-97 1015</b>	Received By <b>R.T. Coffman</b>	Date/Time <b>3-25-97</b>											
	Relinquished By	Date/Time	Received By	Date/Time											

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

Collector **KB HULSE (RFS)** Company Contact **J.H. KESSNER** Telephone No. **(509) 372-9538** Project Coordinator **Stewart, DL** Data Turnaround Field

Project Designation **200-ZP-1 IRM (Group 2) Groundwater Sampling--FY1997** Sampling Location **200-W 299-W18-23** SAF No. **C97-015**

Ice Chest No. Field Logbook No. **WHC-N-205 #65** Method of Shipment **GOVT. TRUCK**

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

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	HCl to pH <2 Cooled to 4C											
	Type of Container	Gs*											
	No. of Container(s)	1											

Special Handling and/or Storage Volume 40ml

SAMPLE ANALYSIS	VOA BY FIELD GC - Chlorinated Hydrocarbon												
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Sample No.	Matrix *	Sample Date	Sample Time										
BOJRP6	Water	3-18-97	0939	X									

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS TOTAL ACTIVITY EXEMPT	Matrix *
Relinquished By <b>KB HULSE (RFS)</b>	Date/Time <b>1342</b> <b>3-19-97</b>	Received By <b>RT COFFMAN / RT Coffman</b>	Date/Time <b>1342</b> <b>3/19/97</b>
Relinquished By	Date/Time	Received By	Date/Time
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

- 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

<b>Collector</b> KB HULSE (RFS)	<b>Company Contact</b> J.H. KESSNER	<b>Telephone No.</b> (509) 372-9538	<b>Project Coordinator</b> Stewart, DL	<b>Data Turnaround</b> Field
<b>Project Designation</b> 200-ZP-1 IRM (Group 2) Groundwater Sampling--FY1997	<b>Sampling Location</b> 200-W 299-1418-26		<b>SAF No.</b> C97-015	
<b>Ice Chest No.</b>	<b>Field Logbook No.</b> WHC-N-205 #65		<b>Method of Shipment</b> G OUT. TRUCK	
<b>Shipped To</b> Mobile Laboratory	<b>Offsite Property No.</b> N/A		<b>Bill of Lading/Air Bill No.</b> N/A	

<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>	<b>Preservation</b>	HCl to pH <2 Cooled to 4C																		
	<b>Type of Container</b>	Gs*																		
	<b>No. of Container(s)</b>	1																		

<b>Special Handling and/or Storage</b>	<b>Volume</b>	40ml																		
<b>SAMPLE ANALYSIS</b>		VOA BY FIELD GC - Chlorinated Hydrocarbon																		

Sample No.	Matrix *	Sample Date	Sample Time																	
B0JKZ6	Water	3-18-97	1019	X																

<b>CHAIN OF POSSESSION</b>	<b>Sign/Print Names</b>	<b>SPECIAL INSTRUCTIONS</b> TOTAL ACTIVITY EXEMPT	<b>Matrix *</b>
Relinquished By KB HULSE (RFS)	Date/Time 1342 3-19-97	Received By R. Coffman / R. Coffman	S - Soil
Relinquished By	Date/Time	Received By	SE - Sediment
Relinquished By	Date/Time	Received By	SO - Solid
Relinquished By	Date/Time	Received By	SL - Sludge
Relinquished By	Date/Time	Received By	W - Water
Relinquished By	Date/Time	Received By	O - Oil
Relinquished By	Date/Time	Received By	A - Air
Relinquished By	Date/Time	Received By	DS - Drum Solids
Relinquished By	Date/Time	Received By	DL - Drum Liquids
Relinquished By	Date/Time	Received By	T - Tissue
Relinquished By	Date/Time	Received By	WI - Wipe
Relinquished By	Date/Time	Received By	L - Liquid
Relinquished By	Date/Time	Received By	V - Vegetation
Relinquished By	Date/Time	Received By	X - Other

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

Collector <b>KB HULSE (RFS)</b>	Company Contact <b>J.H. KESSNER</b>	Telephone No. <b>(509) 372-9538</b>	Project Coordinator <b>Stewart, DL</b>	Data Turnaround <b>Field</b>
Project Designation <b>200-ZP-1 IRM (Group 2) Groundwater Sampling--FY1997</b>	Sampling Location <b>200-W 699-39-79</b>		SAF No. <b>C97-015</b>	
Ice Chest No.	Field Logbook No. <b>WHC-N-205#65</b>		Method of Shipment <b>GOVT. TRUCK</b>	
Shipped To <b>Mobile Laboratory</b>	Offsite Property No. <b>N/A</b>		Bill of Lading/Air Bill No. <b>N/A</b>	

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	HCl to pH <2 Cooled to 4C																	
	Type of Container	Gs*																	
	No. of Container(s)	1																	

Special Handling and/or Storage	Volume	40ml																	
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SAMPLE ANALYSIS		VOABY FIELD GC -- Chlorinated Hydrocarbon																	
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Sample No.	Matrix *	Sample Date	Sample Time																
BOJKZ5	Water	3-18-97	0904	X															

CHAIN OF POSSESSION	Sign/Print Names				SPECIAL INSTRUCTIONS TOTAL ACTIVITY EXEMPT										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 <b>KB HULSE (RFS)</b>	Date/Time <b>1342</b>	Received By <b>RT Coffman</b>	Date/Time <b>1342</b>												
		<b>3-19-97</b>	<b>RT Coffman</b>	<b>3/19/97</b>												
	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

Collector **AG RIZZO (RFS)** Company Contact **J.H. KESSNER** Telephone No. **(509) 372-9538** Project Coordinator **Stewart, DL** Data Turnaround **Field**

Project Designation **200-ZP-1 IRM (Group 1) Groundwater Sampling--FY1997** Sampling Location **600** *699-47-60* SAF No. **C97-014**

Ice Chest No. **SMK 435** Field Logbook No. **WHL-N-205 44 PAGE 13** Method of Shipment **GOVT. VEHICLE**

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

POSSIBLE SAMPLE HAZARDS/REMARKS  <b>N/A</b>	Preservation	HCl to pH <2 Cooled to 4C																	
	Type of Container	Gs*																	
	No. of Container(s)	1																	

Special Handling and/or Storage **COOL 4°C** Volume **40ml**

SAMPLE ANALYSIS VOA BY FIELD GC - Chlorinated Hydrocarbon

Sample No.	Matrix *	Sample Date	Sample Time																
BOKOV5	Water	<b>MAR 28 1997</b>	<b>0856</b>	<input checked="" type="checkbox"/>															

CHAIN OF POSSESSION	Sign/Print Names		SPECIAL INSTRUCTIONS		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>AG Rizzo</i>	Date/Time <b>4-1-97 1340</b>	Received By <i>RB Kent</i>	Date/Time <b>1340</b>		<del>TOTAL ACTIVITY RESULT REQUIRED</del> <b>3-20-97</b> <del>FOR COPIES OF QES LOG IN TO DL STEWART 372-1704</del> <del>&amp; ON DURETT 372-9052</del>
	AG RIZZO (RFS)	<del>3-28-97</del>	<i>RD Kerkow</i>	<b>4-1-97</b>		
	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 \_\_\_\_\_

Collector <b>RF THORNTON (RF)</b>	Company Contact <b>J.H. KESSNER</b>	Telephone No. <b>(509) 372-9538</b>	Project Coordinator <b>Stewart, DL</b>	Data Turnaround Field
Project Designation <b>200-ZP-1 IRM (Group 1) Groundwater Sampling--FY1997</b>	Sampling Location <b>600</b>	<b>699 - 51-63 12600</b>	SAF No. <b>C97-014</b>	
Ice Chest No. <b>SML 268</b>	Field Logbook No. <b>W H C - N - 205 #63</b>		Method of Shipment <b>GOVT. VEHICLE</b>	
Shipped To <b>Mobile Laboratory</b>	Offsite Property No. <b>N/A</b>		Bill of Lading/Air Bill No. <b>N/A</b>	

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	HCl to pH <2 Cooled to 4C																	
	Type of Container	Gs*																	
	No. of Container(s)	1																	

Special Handling and/or Storage	Volume	40ml																	
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SAMPLE ANALYSIS		VOA BY FIELD GC -- Chlorinated Hydrocarbon																	
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Sample No.	Matrix *	Sample Date	Sample Time																
BOK0V6	Water	3-24-97	1130	✓															

<b>CHAIN OF POSSESSION</b>				<b>SPECIAL INSTRUCTIONS</b>												<b>Matrix *</b>							
Sign/Print Names																				<ul style="list-style-type: none"> <li>S - Soil</li> <li>SE - Sediment</li> <li>SO - Solid</li> <li>SL - Sludge</li> <li>W - Water</li> <li>O - Oil</li> <li>A - Air</li> <li>DS - Drum Solids</li> <li>DL - Drum Liquids</li> <li>T - Tissue</li> <li>WI - Wipe</li> <li>L - Liquid</li> <li>V - Vegetation</li> <li>X - Other</li> </ul>			
Relinquished By <b>RF THORNTON (RF)</b>	Date/Time <b>3-24-97 1000</b>	Received By <b>R2 Stiller</b>	Date/Time <b>3-24-97 1000</b>																				
Relinquished By <b>R2 Stiller</b>	Date/Time <b>3-25-97 1015</b>	Received By <b>RT Goffman</b>	Date/Time <b>3-25-97</b>																				
Relinquished By	Date/Time	Received By	Date/Time																				
Relinquished By	Date/Time	Received By	Date/Time																				

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