

FIELD SCREENING
FINAL RESULT DATA DELIVERABLE COVER SHEET

Date: Monday, May 14, 2001

Sample Authorization Form Number: C01-004

SDG Number (assigned by Sample Management): F50385

Attachments (check all that apply or N/A):

☒ Test Results
☒ Narrative Summary
☒ Chain of Custody(s)
☒ Logbook Pages
☒ Anomaly Report

Total number of pages (including cover sheet): 19

Comments:



M. G. Baehler

Analyst Signature

6/27/01

Date

Distribution: Sample Management - H9-03
Project (specify)

RECEIVED
NOV 06 2001

EDMC

____ Requires distribution to listed project personnel by Sample Management (check if applicable)

PRELIMINARY RESULT DATA DELIVERABLE COVER SHEET

Date: Thursday, April 05, 2001

Sample Authorization Form Number: C01-004

Attachments (check all that apply or N/A): ☒ **Test Results**
☒ **Chains of Custody**
☒ **Logbook Pages**
☐ **N/A** **Anomaly Report**

Total number of pages (including cover sheet): 18

Comments: 200-UP-1 Groundwater VOA Data

M. G. Baehler
Analyst signature

4/5/01
Date



Distribution: Sample Management – H9-03
Project (specify)

☐ **Requires distribution to listed project personnel by Sample Management (Check if applicable)**

0000002

**200-UP-1 Groundwater
Field Screening Results
Advanced Data Copy
SAF C01-004**

<i>Well Number</i>	<i>HEIS Number</i>	<i>Date Sampled</i>	<i>Time Sampled</i>	<i>Sampler</i>	<i>Analysis Date</i>	<i>Chloroform (ug/L)</i>	<i>CCI4 (ug/L)</i>	<i>TCE (ug/L)</i>	<i>Uranium* (ug/L)</i>	<i>Comments</i>
299-W19-40	B109L1	10/26/2000	9:05	DPC	11/03/2000	< 2.0	29	< 2.0		
299-W19-40	B10BN2	10/26/2000	8:06	DPC	11/03/2000	< 2.0	< 2.0	< 2.0		
299-W19-37	B109K7	10/26/2000	10:56	DPC	11/03/2000	2.7	44	< 2.0		
299-W19-35	B109K3	10/26/2000	9:42	KBH	11/03/2000	< 2.0	60	4.4		
299-W19-35	B109K4	10/26/2000	9:42	KBH	11/03/2000	< 2.0	66	4.6		
DLY36	B10BN3	10/30/2000	8:00	DEP	11/07/2000	< 2.0	< 2.0	< 2.0		
DLY37	B10BN4	11/02/2000	7:30	RFS	11/07/2000	< 2.0	< 2.0	< 2.0		
DLY38	B10NV8	11/03/2000	7:45	RFS	11/07/2000	< 2.0	< 2.0	< 2.0		
299-W19-30	B109L6	11/02/2000	10:56	RFS	11/07/2000	< 2.0	< 2.0	< 2.0		
299-W19-39	B109K1	11/03/2000	8:28	RFS	11/07/2000	< 2.0	49	< 2.0		
299-W19-34A	B109L8	10/30/2000	11:17	RFS	11/07/2000	5.3	84	2.3		
299-W19-36	B109K9	11/02/2000	9:06	RFS	11/07/2000	5.7	180	2.2		

* Uranium samples have not been analyzed

0000003

200-ZP-1/200-UP-1 Groundwater Daily Activity Log

(Logbook EL-1329-2, C01-005/C01-004)

Date: 11/03/00

0700	T. M. Johansen arrived on-site at laboratory trailer located at 200-ZP-1 to analyze 200-ZP-1 groundwater VOA samples. Turned on HP 5890 S/N 3235A47685 gas chromatograph and HP 7694 headspace autosampler S/N 3617101945. Loaded methods HSECDFID.MTH (HP 5890) and HSECDFID.HSM (HP 7694).
0712	Split flow = 39.9 mL/min. Septum purge = 3.17 mL/min.
0723	Prepared new warm-up standards of 5 and 10 ug/L, revised, and started sample sequence "Z080300.S" <u>2110300.S MAB 12/4/00</u>
0740	Prepared calibration standards of 5, 100, 200, 2000, 4000, and 8000 ug/L.
0833	Prepared 200-ZP-1 GW samples for analysis. Transferred 10 mL of each sample to clean 20 mL HP vial using a pipette. <u>u/mL MAB 11/10/01</u>
0900	Prepared matrix spike and matrix spike duplicate. Added 2 u/L of 50 u/L of LCS parent stock for a total of 10 u/L to 10 ml of sample 299-W14-9(MS) and 299-W14-9(MSD).
0937	Started calibration of HP 5890 gas chromatograph. <u>0 u/L MAB 11/10/01</u>
0921	Completed calibration of HP 5890 gas chromatograph. Calibration curves are acceptable.
0925	Prepared calibration check standard of 100 ug/L.
0954	100 ug/L calibration check: DCM = 98 (98 %), TCM = 100 (100 %), CCl ₄ = 93 (93 %), TCE = 94 (94 %), PCE = 91 (91 %). Acceptable recoveries.
1038	Started analysis of groundwater samples.
1049	Matrix spike recovery for 299-W14-9 = <u>97% 11-3-00 77%</u>
1100	Matrix spike duplicate recovery for 299-W14-9 = <u>97% 11-3-00 87%</u> Note: Relative Percent Difference = 20 %
1315	Prepared calibration check standard of 3000 ug/L.
1321	Completed analysis of groundwater samples.
1343	3000 ug/L calibration check: DCM = 3018 (101 %), TCM = 3024 (101 %), CCl ₄ = 2963 (99 %), TCE = 3023 (101 %), PCE = 3005 (100 %). Acceptable recoveries.
1505	Loaded standby method, shut down equipment, left site.

200-ZP-1

11-03-00

T. M. Johansen

Continued on Page

Read and Understood By

T. M. Johansen
Signed

11-03-00
Date

Signed

Date

200-ZP-1/200-UP-1 Groundwater Daily Activity Log (Logbook EL-1329-2, SAF C01-005/C01-004)

Date: 11/07/00

0700	T.M Johansen arrived on-site at laboratory trailer located at 200-ZP-1 to perform groundwater samples from 200-ZP-1 and 200-UP-1. Turned on HP 5890 gas chromatograph S/N 3235A47685 and HP 7694 headspace autosampler S/N 3617I01945. Loaded methods HSECFID.MTH (HP 5890) and HSECFID.HSM (HP 7694).
0745	Prepared new warm-up standards of 5 and 10 ug/L. Created sample sequence "Z110700.S"
0800	Prepared calibration standards of 5, 100, 200, 2000, 4000, and 8000 ug/L.
0815	Split flow = 40.1 mL/min. Septum purge = 3.16 mL/min.
0930	Prepared 200-ZP-1 GW samples for GC analysis. Transferring 10 mL of sample to a clean 20 mL HP vial using a pipette.
0932	Started calibration of HP 5890 gas chromatograph.
1000	Prepared 100 ug/L calibration check standard.
1027	Completed calibration of HP 5890 gas chromatograph. Calibration curves are acceptable. ml MAB 11/10/01
1045	Prepared new 1000 ug/L working standard from #52893 parent stock of custom VOA mix (2000 ug/mL). 250 uL methanol + 250 uL parent stock.
1100	100 ug/L calibration check: DCM = 103 (103 %), TCM = 105 (105 %), CCl ₄ = 90 (90 %), TCE = 97 (97 %), PCE = 91 (91 %). Recoveries Acceptable.
1210	Prepared matrix spike and matrix spike duplicate. Added 2 uL of 50 u/L of LCS parent stock for a total of 10 uL to 10 ml of sample 299-W19-30. u/L MAB 11/10/01
1220	Started analysis of process water samples. 0.1 ug/L MAB 11/10/01
1258	Percent recovery for 299-W19-30 matrix spike = 75%
1309	Percent recovery for 299-W19-30 matrix spike duplicate = 64% Note: Relative Percent Difference = 14%
1440	Prepared 3000 ug/L calibration check standard.
1442	Completed analysis of process water samples.
1504	3000 ug/L calibration check: DCM = 3292 (110 %), TCM = 3123 (104 %), CCl ₄ = 3291 (110 %), TCE = 3199 (107 %), PCE = 3242 (108 %). Acceptable Rec.
1540	Disposed of liquid and solid waste.
1610	Loaded standby method, shut down equipment, left site.

Data was recorded in real time using a laptop computer.

T.M. Johansen 11-09-00

Continued on Page

NA

Read and Understood By

T.M. Johansen

11-09-00

Signed

Date

Signed

0000005

Date

1

M.A. Baechler, CH1-AFS, M.G. Baechler EL-1334

MOBILE LABORATORY DATA/LOG SHEET (Logbook EL-1359-2, SAF C01-005/C01-004)

EL-1334

Site Name: 200-ZP-1/200-UP-1 Groundwater

Date: 11/03/00

Sample Number	HEIS Number	Sample Time	Sample Type	Sampler (Initials)	Analysis Time	Analytical Results			Comments
						TCM ug/L	CCl4 ug/L	TCE ug/L	
DI Blank	----	07:00	Water	TMJ	943	< 2.0	< 2.0	< 2.0	hs012.d
100 ug/L Cal. check	----	09:13	Water	TMJ	954	100 100%	93 93%	95 95%	hs013.d; Acceptable recovery.
DI Blank	----	07:00	Water	TMJ	1005	< 2.0	< 2.0	< 2.0	hs014.d
299-W14-9	B10F20	09:32	Water	TMJ	1038	97	22	2.5	hs017.d; 10/25/00
299-W14-9, MS	B10F20	09:32	Water	TMJ	1049	8.5 85%	7.7 77%	11.5 115%	hs018.d; 10/25/00, % RPD= 20
299-W14-9, MSD	B10F20	09:32	Water	TMJ	1100	8.2 82%	8.7 87%	11.6 116%	hs019.d; 10/25/00, % RPD= 20
299-W19-40	B109L1	09:05	Water	TMJ	1111	< 2.0	29	< 2.0	hs020.d; 10/26/00
299-W19-40	B10BN2	08:06	Water	TMJ	1122	< 2.0	< 2.0	< 2.0	hs021.d; 10/26/00
299-W19-37	B109K7	10:56	Water	TMJ	1133	2.7	44	< 2.0	hs022.d; 10/26/00
299-W18-4	B10F19	12:12	Water	TMJ	1144	19	39	< 2.0	hs023.d; 10/25/00
299-W19-35	B109K3	09:42	Water	TMJ	1155	< 2.0	60	4.4	hs024.d; 10/26/00
299-W19-35	B109K4	09:42	Water	TMJ	1206	< 2.0	66	4.6	hs025.d; 10/26/00
299-W18-30	B10F21	12:09	Water	TMJ	1218	7.4	178	< 2.0	hs026.d; 10/26/00
299-W18-1	B10F24	10:39	Water	TMJ	1228	< 2.0	417	< 2.0	hs027.d; 10/25/00
299-W15-38	B10F29	12:38	Water	TMJ	1239	14	2450	2.5	hs028.d; 10/24/00
299-W15-7	B10F23	12:27	Water	TMJ	1250	14	2968	12	hs029.d; 10/26/00
299-W15-31A	B10F28	11:27	Water	TMJ	1321	19	3032	< 2.0	hs030.d; 10/24/00
DI Blank	----	07:00	Water	TMJ	1332	< 2.0	< 2.0	< 2.0	hs031.d
3000ug/L Cal. check	----	13:15	Water	TMJ	1343	3025 101%	2963 99%	3023 101%	hs032.d; Acceptable recovery.
DI Blank	----	07:00	Water	TMJ	1354	< 2.0	< 2.0	< 2.0	hs033.d

For instrument operation information, please refer to logbook EL-1329-2, page 47

Data recorded in real time using a laptop computer.

M.A. Baechler / M.G. Baechler 4/5/01

0000006

M.A. Baechler, C.H. AFS, M.G. Baechler EL-1334

MOBILE LABORATORY DATA/LOG SHEET (Logbook EL-1359-2, C01-005/C01-004)

Site Name: 200-ZP-1/200-UP-1 Groundwater Samples

EL-1334

Date: 11/07/00

Sample Number	HEIS Number	Sample Time	Sample Type	Sampler (Initials)	Analysis Time	Analytical Results			Comments
						TCM ug/L	CCM ug/L	TCE ug/L	
DI Blank	----	07:00	Water	TMJ	1049	<2.0	<2.0	<2.0	hs012.d
100ug/L Cal. Check	----	10:00	Water	TMJ	1100	105 105%	90 90%	97 97%	hs013.d; Acceptable recoveries.
DI Blank	----	07:00	Water	TMJ	1111	<2.0	<2.0	<2.0	hs014.d
DLY36	B10BN3	08:00	Water	TMJ	1220	<2.0	<2.0	<2.0	hs017.d;
DLY37	B10BN4	07:30	Water	TMJ	1231	<2.0	<2.0	<2.0	hs018.d;
DLY38	B10NV8	07:45	Water	TMJ	1242	<2.0	<2.0	<2.0	hs019.d;
299-W19-30	B109L6	10:56	Water	TMJ	1253	<2.0	<2.0	<2.0	hs020.d
299-W19-30 MS	B109L6	10:56	Water	TMJ	1303	<2.0	7.5 75%	<2.0	hs021.d
299-W19-30 MSD	B109L6	10:56	Water	TMJ	1314	<2.0	6.4 64%	<2.0	hs022.d (RPD =14%)
299-W19-39	B109K1	08:28	Water	TMJ	1325	<2.0	49	<2.0	hs023.d
299-W15-15	B10F26	13:24	Water	TMJ	1336	<2.0	48	<2.0	hs024.d
299-W19-34A	B109L8	11:17	Water	TMJ	1348	<2.0	84	<2.0	hs025.d;
299-W18-27	B10F22	12:25	Water	TMJ	1358	<2.0	81	<2.0	hs026.d
299-W19-36	B109K9	09:06	Water	TMJ	1410	<2.0	180	<2.0	hs027.d
299-W15-39	B10F30	11:21	Water	TMJ	1420	<2.0	798	<2.0	hs028.d;
299-W15-11	B10F25	10:11	Water	TMJ	1430	<2.0	4599	<2.0	hs029.d;
299-W15-1	B10F18	09:54	Water	TMJ	1442	<2.0	5883	<2.0	hs030.d;
DI Blank	----	0700	Water	TMJ	1453	<2.0	<2.0	<2.0	hs031.d
3000ug/L Cal. Check	----	1435	Water	TMJ	1504	3123 104%	3291 110%	3199 107%	hs032.d; Acceptable recoveries
DI Blank	----	0700	Water	TMJ	1515	<2.0	<2.0	<2.0	hs033.d

For instrument operation information, please refer to logbook EL-1329-2, page 15
Data recorded in real time using a laptop computer.

M.A. Baechler / M.G. Baechler 4/5/01

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~~THAT 5.11~~

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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

C01-004-8

Page 1 of 1

Collector KB HULSE	Contact/Requester JH KESSNER	Telephone No. (509) 376-4688	MSIN FAX
SAF No. C01-004	Sampling Origin HANFORD SITE	Purchase Order/Charge Code	
Project Title 200 UPI IAM GW MONITORING, OCTOBER 2000	Logbook No. UPL-SHUS-#37	Ice Chest No.	Temp.
Shipped To (Lab) Mobile Field Laboratory	Method of Shipment GOVT VEHICLE	Bill of Lading/Air Bill No. N/A	
Protocol CERCLA	Data Turnaround 45 Days	Offsite Property No. N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

** **

SPECIAL INSTRUCTIONS

Hold Time

Total Activity Exemption: Yes ☒ No ☐

Submit deliverables & invoices to JH Kessner (FAX 372-9487)

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B109K4		W	10/26/00	0942	1x40-mL aGs*	VOA_GC_FLD: List-1 (3)	HCl to pH <2 Cool 4C
B109K4		W	↓	↓	1x125-mL GP	UTGT_KPA_FLD: Uranium (1)	HNO3 to pH <2
COPY							

Relinquished By KB HULSE	Print <i>KB Hulse</i>	Sign <i>KB Hulse</i>	Date/Time 10-31-00 1410	Received By <i>Thomars</i>	Print <i>Thomars</i>	Sign <i>Thomars</i>	Date/Time 10-31-00 1410	Matrix * S = Soil DS = Drum Solid SE = Sediment DL = Drum Liqui SO = Solid T = Tissue SL = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By <i>Thomars</i>			Date/Time 4-5-01 1000	Received By <i>M.A. Baehler</i>			Date/Time 4/5/01 1000	
Relinquished By			Date/Time	Received By			Date/Time	
Relinquished By			Date/Time	Received By			Date/Time	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process) <i>Return to Proj</i>	Disposed By <i>Thomars</i>	Date/Time 11-3-00 1400
		<i>3/14/01</i>	<i>4-5-01</i>

[illegible]

C01-004-15

Page 1 of 1

Telephone No.	MSIN	FAX
(509) 376-4688		

Purchase Order/Charge Code

Ice Chest No.	Temp.
---------------	-------

Bill of Lading/Air Bill No.

Offsite Property No.

SPECIAL INSTRUCTIONS **Hold Time** **Total Activity Exemption:** Yes ☒ No ☐
 Submit deliverables & invoices to JH Kessner (FAX 372-9487)

[illegible]

COPY

Matrix *

S	= Soil	DS	= Drum Solid
SE	= Sediment	DL	= Drum Liquid
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

Received by M. C. Brachler Date/Time 4/5/01

Received By W.A. [Signature] Date/Time 11/5/11

Received By _____ Date/Time _____

Disposed By: 11/2/2016 Date/Time: 11/2/2016

DISPOSITION

Disposal Method (e.g., Return to customer, per lab protocol): Return to Project

~~Mattias / MORALES~~ 11-3-06 ~~1420~~

SLEF MAR 4/5/07 1420 FMT 4-

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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

C01-004-27

Page 1 of 1

Collector B. P. CONNOLLY	Contact/Requester JH KESSNER	Telephone No. (509) 376-4688	MSIN	FAX
SAF No. C01-004	Sampling Origin HANFORD SITE	Purchase Order/Charge Code		
Project Title 200 UPLIAM GW MONITORING, OCTOBER 2000	Logbook No. W.M-SAWS-737	Ice Chest No.	Temp.	
Shipped To (Lab) Mobile Field Laboratory	Method of Shipment GOVT VEHICLE	Bill of Lading/Air Bill No.		
Protocol CERCLA	Data Turnaround 45 Days	Offsite Property No.		

POSSIBLE SAMPLE HAZARDS/REMARKS

.. ..

SPECIAL INSTRUCTIONS

Hold Time

Total Activity Exemption: Yes ☒ No ☐

Submit deliverables & invoices to JH Kessner (FAX 372-9487)

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B109L1		W	10/26/00	0905	1x40-mL aGs*	VOA_GC_FLD: List-1 (3)	HCl to pH <2 Cool 4C
B109L1		W	I	I	1x125-mL GP	UTGT_KPA_FLD: Uranium (1)	HNO3 to pH <2
COPY							

Relinquished By D. P. CONNOLLY	Print [Signature]	Sign [Signature]	Date/Time 10-31-00 1440	Received By [Signature]	Print [Signature]	Sign [Signature]	Date/Time 10-31-00 1440	Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solid DL = Drum Liqui T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By [Signature]	Print [Signature]	Sign [Signature]	Date/Time 4-5-01 1022	Received By [Signature]	Print [Signature]	Sign [Signature]	Date/Time 4/5/01 1022	
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer per lab procedure, used in process)			Disposed By			Date/Time	

PNNL						CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST								C.O.C. # C01-004-3															
Collector (RFB) XO RW RR FOX (RFS)						Contact/Requester JH KESSNER						Telephone No. (509) 376-4688				MSIN FAX													
SAF No. C01-004						Sampling Origin HANEORD SITE						Purchase Order/Charge Code																	
Project Title 200 UPLIAM GW MONITORING OCTOBER 2000						Logbook No. LWIN-SALUS-H 38						Ice Chest No.				Temp.													
Shipped To (Lab) Mobile Field Laboratory						Method of Shipment GOVT VEHICLE						Bill of Lading/Air Bill No.																	
Protocol CERCLA						Data Turnaround 45 Days						Offsite Property No.																	
POSSIBLE SAMPLE HAZARDS/REMARKS ** **										SPECIAL INSTRUCTIONS Hold Time Submit deliverables & invoices to JH Kessner (FAX 372-9487)						Total Activity Exemption: Yes ☒ No ☐													
Sample No.		Lab ID		*	Date	Time	No/Type Container		Sample Analysis								Preservative												
B109L6				W	11-2-00	1056	1x40-mL aGs*		VOA_GC_FLD: List-1 (3)								HCl to pH <2 Cool 4C												
B109L0				W	✓	✓	1x125-mL G/P		UTOT_KPA_FLD: Uranium (1)								HNO3 to pH <2												
COPY																													
Relinquished By RR FOX (RFB)										Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 11-2-00 1410		Received By <i>[Signature]</i>				Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 11-2-00 1410		Matrix *			
Relinquished By <i>[Signature]</i>										Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022		Received By <i>[Signature]</i>				Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4/5/01 1022		S = Soil DS = Drum Solid SE = Sediment DL = Drum Liqui SO = Solid T = Tissue SL = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other			
Relinquished By <i>[Signature]</i>										Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022		Received By <i>[Signature]</i>				Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022					
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Relinquished By <i>[Signature]</i>										Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022		Received By <i>[Signature]</i>				Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022					
Relinquished By <i>[Signature]</i>										Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022		Received By <i>[Signature]</i>				Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022					
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Relinquished By <i>[Signature]</i>										Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022		Received By <i>[Signature]</i>				Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022					
Relinquished By <i>[Signature]</i>										Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022		Received By <i>[Signature]</i>				Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022					
Relinquished By <i>[Signature]</i>										Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022		Received By <i>[Signature]</i>				Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022					
Relinquished By <i>[Signature]</i>										Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022		Received By <i>[Signature]</i>				Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022					
Relinquished By <i>[Signature]</i>										Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022		Received By <i>[Signature]</i>				Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022					
Relinquished By <i>[Signature]</i>										Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022		Received By <i>[Signature]</i>				Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022					
Relinquished By <i>[Signature]</i>										Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022		Received By <i>[Signature]</i>				Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022					
Relinquished By <i>[Signature]</i>										Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022		Received By <i>[Signature]</i>				Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022					
Relinquished By <i>[Signature]</i>										Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022		Received By <i>[Signature]</i>				Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022					
Relinquished By <i>[Signature]</i>										Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022		Received By <i>[Signature]</i>				Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022					
Relinquished By <i>[Signature]</i>										Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022		Received By <i>[Signature]</i>				Print <i>[Signature]</i>		Sign <i>[Signature]</i>		Date/Time 4-5-01 1022					

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

C01-004-5

Page 1 of 1

Collector RR FOX	Contact/Requester JH KESSNER	Telephone No. (509) 376-4688	MSIN FAX
SAF No. C01-004	Sampling Origin HANFORD SITE	Purchase Order/Charge Code	
Project Title 200 UPLI AM GW MONITORING OCTOBER 2000	Logbook No. WM-SAWS-1438	Ice Chest No.	Temp.
Shipped To (Lab) Mobile Field Laboratory	Method of Shipment GOVT VEHICLE	Bill of Lading/Air Bill No.	
Protocol CERCLA	Data Turnaround 45 Days	Offsite Property No.	

POSSIBLE SAMPLE HAZARDS/REMARKS

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SPECIAL INSTRUCTIONS

Hold Time

Total Activity Exemption: Yes ☒ No ☐

Submit deliverables & invoices to JH Kessner (FAX 372-9487)

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B109L8		W	10-30-00	1117	1x40-mL aGs*	VOA_GC_FLD: List-1 (3)	HCl to pH <2 Cool 4C
B109L8		W	↓	↓	1x125-mL G/P	UTOT_KPA_FLD: Uranium (4)	HNO3 to pH <2
COPY							

Relinquished By RR FOX	Print [Signature]	Sign [Signature]	Date/Time 10-31-00 1410	Received By [Signature]	Print [Signature]	Sign [Signature]	Date/Time 10-31-00 1410	Matrix * S = Soil DS = Drum Solid SE = Sediment DL = Drum Liqui SO = Solid T = Tissue SL = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By [Signature]			Date/Time 4-50/1022	Received By [Signature]			Date/Time 4/5/01 1022	
Relinquished By [Signature]			Date/Time	Received By [Signature]			Date/Time	
Relinquished By [Signature]			Date/Time	Received By [Signature]			Date/Time	
FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Returned to project				Disposed By [Signature]				Date/Time 11/3/00 1420

[illegible]

PNNL		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C. # C01-004-34	
Collector		Contact/Requester		Telephone No.		MSIN FAX	
D Connolly		JH KESSNER		(509) 376-4688			
SAF No. C01-004		Sampling Origin HANFORD SITE		Purchase Order/Charge Code			
Project Title 200 UPLIAM GW MONITORING, OCTOBER 2000		Logbook No. WM-514WS 158		Ice Chest No.		Temp.	
Shipped To (Lab) Mobile Field Laboratory		Method of Shipment GOVT. VEHICLE		Bill of Lading/Air Bill No.			
Protocol CERCLA		Data Turnaround 45 Days		Offsite Property No.			
POSSIBLE SAMPLE HAZARDS/REMARKS				SPECIAL INSTRUCTIONS Hold Time Submit deliverables & invoices to JH Kessner (FAX 372-9487)			
				Total Activity Exemption: Yes ☒ No ☐			
Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B10BN3		W	10-30-00	0800	1x40-mL aGs*	VOA_GC_FLD: List-1 (3)	HCl to pH <2 Cool 4C
10-30-00 OC							
Relinquished By		Print	Sign	Date/Time	Received By		Date/Time
D Connolly		OC		10-31-00 1410	T. M. Johansen		10-31-00 1410
Relinquished By				Date/Time	Received By		Date/Time
Relinquished By				Date/Time	Received By		Date/Time
Relinquished By				Date/Time	Received By		Date/Time
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)				Disposed By	
		Returned to owner				T. M. Johansen	
						11/7/00 1540	

PNNL		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						C.O.C. # C01-004-35 Page 1 of 1		
Collector <i>Fox</i>			Contact/Requester JH KESSNER			Telephone No. (509) 376-4688			MSIN FAX	
SAF No. C01-004			Sampling Origin HANFORD SITE			Purchase Order/Charge Code				
Project Title 200 UPLI AM GW MONITORING OCTOBER 2000			Logbook No. <i>WIN-SAWS-H38</i>			Ice Chest No.			Temp.	
Shipped To (Lab) Mobile Field Laboratory			Method of Shipment GOVT. VEHICLE			Bill of Lading/Air Bill No.				
Protocol CERCLA			Data Turnaround 45 Days			Offsite Property No.				
POSSIBLE SAMPLE HAZARDS/REMARKS ** **						SPECIAL INSTRUCTIONS Submit deliverables & invoices to JH Kessner (FAX 372-9487)			Hold Time Total Activity Exemption: Yes ☒ No ☐	
Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis				Preservative
B10BN4		W	11-2-00	0730	1x40-mL aGs*	VOA_GC_FLD: List-1 (3)				HCl to pH <2 Cool 4C
Relinquished By <i>Fox</i>	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time 11-2-00 1410	Received By <i>T.M. Johnson</i>	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time 11-2-00 1410	Matrix *		
Relinquished By	Date/Time	Received By	Date/Time			S = Soil	DS = Drum Solid			
Relinquished By	Date/Time	Received By	Date/Time			SE = Sediment	DL = Drum Liqui			
Relinquished By	Date/Time	Received By	Date/Time			SO = Solid	T = Tissue			
Relinquished By	Date/Time	Received By	Date/Time			SL = Sludge	WI = Wipe			
Relinquished By	Date/Time	Received By	Date/Time			W = Water	L = Liquid			
Relinquished By	Date/Time	Received By	Date/Time			O = Oil	V = Vegetation			
Relinquished By	Date/Time	Received By	Date/Time			A = Air	X = Other			
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By <i>T.M. Johnson</i>		Date/Time 11/7/00 0840				

PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. #
		C01-004-37
Page 1 of 1		

Collector <i>Fox</i>	Contact/Requester JH KESSNER	Telephone No. (509) 376-4688	MSIN	FAX
SAF No. C01-004	Sampling Origin HANFORD SITE	Purchase Order/Charge Code		
Project Title 200 UPLI AM GW MONITORING, OCTOBER 2000	Logbook No. <i>WIM-SAW5-H38</i>	Ice Chest No.	Temp.	
Shipped To (Lab) Mobile Field Laboratory	Method of Shipment GOVT VEHICLE	Bill of Lading/Air Bill No.		
Protocol CERCLA	Data Turnaround 45 Days	Offsite Property No.		

POSSIBLE SAMPLE HAZARDS/REMARKS ** **	SPECIAL INSTRUCTIONS	Hold Time	Total Activity Exemption: Yes ☒ No ☐
	Submit deliverables & invoices to JH Kessner (FAX 372-9487)		

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B10NV8		W	11-3-00	0745	1x40-mL aGs*	VOA_GC_FLD: List-1 (3)	HCl to pH <2 Cool 4C

Relinquished By <i>Fox</i>	Print	Sign	Date/Time 11-3-00 1320	Received By <i>Therhansa/Amthansa</i>	Print	Sign	Date/Time 11-3-00 1320	Matrix * S = Soil DS = Drum Solid SE = Sediment DL = Drum Liqui SO = Solid T = Tissue SL = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By			Date/Time	Received By			Date/Time	
Relinquished By			Date/Time	Received By			Date/Time	
Relinquished By			Date/Time	Received By			Date/Time	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, uses in process)	Disposal By	Date/Time
	<i>Returned to project</i>	<i>TJM/Johnson</i>	<i>11/7/00 1540</i>

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