0059620

FIELD SCREENING
FINAL DATA DELIVERABLE COVER SHEET

Date: Monday, March 03, 2003

Sample Authorization Form (SAF) Number: I03-015

SDG Number (assigned by Sample Management): FP0079 Daynes 3/3/03

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

X	Test Results
N/A	Narrative Summary
X	Chain of Custody(s)
X	Logbook Pages
N/A	Anomaly Report

Total number of pages (including cover sheet): ~~23~~ ~~30~~ 83 TMJ 3/12/03 TMJ 3/3/03

Comments:
ISRM - Hexavalent Chromium – Sulfate - Water

THESE TESTS WERE CONDUCTED USING QC-1

MAR 2003 RECEIVED

Analyst Signature — Date: 3/3/03

Reviewer's Signature — Date: 3-12-03

Distribution: CPP Sample Management A0-21
Project (Specify)

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

RECEIVED JUN 09 2003 EDMC

0000001

On-Site Measurement of Cr +6

ISRM Groundwater

SAF: I03-015
Procedure: BHI-EE-05, FSP 1.17
Logbook: HNF-N-296 1 Page 83

2/21/2003

Location	Heis Number	SAF	Date Collected	Time Collected	Sampler (Initials)	Sample Media	Date Analyzed	Time Analyzed	Analyst (Initials)	Cr +6 (mg/L)
199-D4-15	**B16C80	I03-015	2/20/2003	11:09	RTS	Water	2/21/2003	8:35	TMJ	1.46
199-D5-36	B16CF0	I03-015	2/21/2003	8:31	DRB	Water	2/21/2003	12:50	TMJ	0.034
199-D5-38	*B16CF2	I03-015	2/21/2003	10:22	RTS	Water	2/21/2003	12:50	TMJ	1.37
199-D5-39	***B16CF4	I03-015	2/21/2003	8:14	RTS	Water	2/21/2003	12:50	TMJ	5.44

* 2X Dilution
** 4X Dilution
*** 10X Dilution

Logbook: HNF-N-296 1 Page 90

2/25/2003

Location	Heis Number	SAF	Date Collected	Time Collected	Sampler (Initials)	Sample Media	Date Analyzed	Time Analyzed	Analyst (Initials)	Cr +6 (mg/L)
MS	B16DX1	I03-015	2/24/2003	11:00	KBH	Water	2/25/2003	8:30	MAB	0.026
MSD	B16DX2	I03-015	2/24/2003	11:00	KBH	Water	2/25/2003	8:30	MAB	0.025
199-D4-20	B16C82	I03-015	2/24/2003	9:15	FMH	Water	2/25/2003	8:30	MAB	0.151
199-D4-20	B16C84	I03-015	2/24/2003	9:15	FMH	Water	2/25/2003	8:30	MAB	0.154
199-D4-26	B16C88	I03-015	2/24/2003	12:19	DPC	Water	2/25/2003	8:30	MAB	0.209
199-D4-32	B16C92	I03-015	2/24/2003	11:11	DPC	Water	2/25/2003	8:30	MAB	<0.005
199-D4-32	B16C94	I03-015	2/24/2003	11:11	DPC	Water	2/25/2003	8:30	MAB	<0.005
199-D4-36	B16C96	I03-015	2/24/2003	10:00	DPC	Water	2/25/2003	8:30	MAB	0.007
199-D4-83	B16CC8	I03-015	2/24/2003	11:52	FMH	Water	2/25/2003	8:30	MAB	0.214
199-D4-83	B16CD0	I03-015	2/24/2003	11:52	FMH	Water	2/25/2003	8:30	MAB	0.214

Logbook: HNF-N-296 1 Page 92

2/26/2003

Location	Heis Number	SAF	Date Collected	Time Collected	Sampler (Initials)	Sample Media	Date Analyzed	Time Analyzed	Analyst (Initials)	Cr +6 (mg/L)
199-D4-1	B16C76	I03-015	2/25/2003	11:29	DEP	Water	2/26/2003	8:20	TMJ	<0.005
199-D4-4	B16CB2	I03-015	2/25/2003	10:23	FMH	Water	2/26/2003	8:20	TMJ	0.006
199-D4-6	B16CC0	I03-015	2/25/2003	9:34	FMH	Water	2/26/2003	8:20	TMJ	0.016
199-D4-22	*B16C86	I03-015	2/25/2003	10:15	RTS	Water	2/26/2003	8:40	TMJ	1.01
199-D4-38	B16C98	I03-015	2/25/2003	9:45	DEP	Water	2/26/2003	8:20	TMJ	0.104
199-D4-62	B16CC2	I03-015	2/25/2003	12:43	FMH	Water	2/26/2003	8:20	TMJ	<0.005
199-D4-84	B16CD2	I03-015	2/25/2003	10:41	RTS	Water	2/26/2003	8:20	TMJ	0.586
199-D4-86	B16CD8	I03-015	2/25/2003	11:52	RTS	Water	2/26/2003	8:20	TMJ	0.041
199-D5-43	B16CF6	I03-015	2/25/2003	10:30	DEP	Water	2/26/2003	8:20	TMJ	0.670
199-D4-78	B16CC6	I03-015	2/26/2003	11:01	RTS	Water	2/26/2003	13:50	TMJ	<0.005

* Diluted sample 2X

Analyst: T. M. Johansen Date: 2/26/2003

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0000002

On-Site Measurement of SO_4

ISRM Groundwater

I03-015

Logbook: HNF-N-296 1 Page 84

2/21/2003

Location	Heis Number	SAF	Date Collected	Time Collected	Sampler (Initials)	Sample Media	Date Analyzed	Time Analyzed	Analyst (Initials)	SO_4 (mg/L
199-D5-36	B16CF1	I03-015	2/21/2003	8:31	DRB	Water	2/21/2003	14:00	TMJ	22
199-D5-38	**B16CF3	I03-015	2/21/2003	10:22	RTS	Water	2/21/2003	14:00	TMJ	108
199-D5-39	**B16CF5	I03-015	2/21/2003	8:14	RTS	Water	2/21/2003	14:00	TMJ	116
199-D4-15	**B16C81	I03-015	2/20/2003	11:09	RTS	Water	2/21/2003	14:00	TMJ	128

** Sample diluted 4X

Logbook: HNF-N-296 1 Page 91

2/26/2003

Location	Heis Number	SAF	Date Collected	Time Collected	Sampler (Initials)	Sample Media	Date Analyzed	Time Analyzed	Analyst (Initials)	SO_4 (mg/L
199-D4-20	**B16C83	I03-015	2/24/2003	9:15	FMH	Water	2/26/2003	10:07	TMJ	128
199-D4-20	**B16C85	I03-015	2/24/2003	9:15	FMH	Water	2/26/2003	10:07	TMJ	128
199-D4-26	***B16C89	I03-015	2/24/2003	12:19	DPC	Water	2/26/2003	10:07	TMJ	320
199-D4-32	**B16C93	I03-015	2/24/2003	11:11	DPC	Water	2/26/2003	10:07	TMJ	236
199-D4-32	**B16C95	I03-015	2/24/2003	11:11	DPC	Water	2/26/2003	10:07	TMJ	236
199-D4-36	***B16C97	I03-015	2/24/2003	10:00	DPC	Water	2/26/2003	10:07	TMJ	580
199-D4-83	*B16CC9	I03-015	2/24/2003	11:52	FMH	Water	2/26/2003	10:07	TMJ	64
199-D4-83	*B16CD1	I03-015	2/24/2003	11:52	FMH	Water	2/26/2003	10:07	TMJ	64
199-D4-1	****B16C77	I03-015	2/25/2003	11:29	DEP	Water	2/26/2003	10:07	TMJ	980
199-D4-4	****B16CB3	I03-015	2/25/2003	10:23	FMH	Water	2/26/2003	10:07	TMJ	980
199-D4-6	****B16CC1	I03-015	2/25/2003	9:34	FMH	Water	2/26/2003	10:07	TMJ	580
199-D4-22	**B16C87	I03-015	2/25/2003	10:15	RTS	Water	2/26/2003	10:07	TMJ	196
199-D4-38	**B16C99	I03-015	2/25/2003	9:45	DEP	Water	2/26/2003	10:07	TMJ	120
199-D4-62	***B16CC3	I03-015	2/25/2003	12:43	FMH	Water	2/26/2003	10:07	TMJ	540
199-D4-84	*B16CD3	I03-015	2/25/2003	10:41	RTS	Water	2/26/2003	10:07	TMJ	90
199-D4-86	*B16CD9	I03-015	2/25/2003	11:52	RTS	Water	2/26/2003	10:07	TMJ	82
199-D5-43	*B16CF7	I03-015	2/25/2003	10:30	DEP	Water	2/26/2003	10:07	TMJ	116

* Sample diluted 2X
** Sample diluted 4X
*** Sample diluted 10X
**** Sample diluted 20X

Logbook: HNF-N-296 1 Page 94

2/26/2003

Location	Heis Number	SAF	Date Collected	Time Collected	Sampler (Initials)	Sample Media	Date Analyzed	Time Analyzed	Analyst (Initials)	SO_4 (mg/L
199-D4-78	*B16CC7	I03-015	2/26/2003	11:01	RTS	Water	2/26/2003	14:40	TMJ	600

* Sample diluted 10X

Analyst: T. M. Johansen Date: 2/26/2003

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0000003

100 HR3 Cr+6
100 ISRM Cr+6

T.M. JOHANSEN / TM Johansen

Hexavalent Chromium Daily Activity Log
Project: 100-HR-3 GW Monitoring / SAF I03-013
ISRM Groundwater Monitoring / SAF I03-015
Logbook HNF-N-296 1
Date: 02/21/03

0810	T. M. Johansen arrived on-site at 200W, HO 68N-1985 mobile laboratory. Set up to analyze samples for hexavalent chromium using a HACH DR 2010 spectrophotometer, S/N 980600009425, Method 950, low range hexavalent chromium.
0815	Prepared 0.10 mg/L standard by adding 240 µL of 12.5 mg/L HACH hexavalent chromium standard, lot # A0234, no expiration, to 29.76 mL of deionized water.
0810	Analyzed samples. Sample B16C80 are over range and require dilution.
0820	Diluted sample B16C80 (4X) by placing 5 mL sample into 15 mL deionized water.
0835	Analyzed samples B16C25 through B16C80.
1218	T. M. Johansen arrived on-site at 200W, HO 68N-1985 mobile laboratory. Set up to analyze samples for hexavalent chromium using a HACH DR 2010 spectrophotometer, S/N 980600009425, Method 950, low range hexavalent chromium.
1225	Analyzed samples. Samples B16CF2 and B16CF4 are over range and require dilution.
1235	Diluted sample B16CF2 (2X) by placing 10 mL sample into 10 mL deionized water. Diluted sample B16CF4 (10X) by placing 2 mL sample into 18 mL deionized water.
1250	Analyzed samples B16C47 through B16C49.
NOTE: Sample B16C27 24-hour hold time expired.	

Sample #	Well #	Concentration (mg/L)	Date Sampled	Time Sampled	Sampler
Blank	-	<0.005	-	- TMJ 3/3/03	-
0.10 mg/L std.	-	0.101	-	-	-
B16C25	199-D2-6	0.086	2/20/03	~~07:30~~ 10:45	RTS
B16C27	FTB758/199-D2-6	<0.005	2/20/03	07:30	RTS
B16C29	199-D3-2	0.030	2/20/03	12:14	RTS
B16C31	199-D3-2	0.030	2/20/03	12:14	RTS
B16C33	199-D4-13	<0.005	2/20/03	11:45	RTS
**B16C80	199-D4-15	1.46	2/20/03	11:09	RTS
B16C47	199-D5-14	0.296	2/21/03	09:41	DRB
B16C48	199-D5-15	0.103	2/21/03	09:10	DRB
B16C52	199-D5-20	0.687	2/21/03	10:19	DRB
B16CF0	199-D5-36	0.034	2/21/03	08:31	DRB
B16C53	199-D5-37	0.458	2/21/03	09:50	RTS
*B16CF2	199-D5-38	1.37	2/21/03	10:22	RTS
***B16CF4	199-D5-39	5.44	2/21/03	08:14	RTS
B16C55	199-D5-40	0.144	2/21/03	10:55	RTS
B16C57	199-D5-41	0.606	2/21/03	09:11	RTS
B16C59	199-D5-42	0.036	2/21/03	08:40	RTS
0.10 mg/L std.	-	0.101	-	-	-

* Sample diluted 2X
** Sample diluted 4X
*** Sample diluted 10X

1430 Packed up equipment and left site.

Data recorded real time using a laptop computer.

T.M. JOHANSEN / TM Johansen 2/24/03

Tamara Johansen 2/24/03

0080004

100 ISRM SO4
100 HR3 SO4

T.M. JOHANSEN /B Johansen

Sulfate Daily Activity Log
Project: ISRM GW Monitoring/SAF I03-015
HR-3 GW Monitoring/SAF I03-013
Date: 02/21/03

1300	T. M. Johansen arrived on-site at 200W, HO 68N-1985 mobile laboratory. Set up to analyze samples for sulfate using a HACH DR 2010 spectrophotometer, S/N 980600009425, Method 952, sulfate. Removed samples from refrigerator and allowed to warm to room temperature.
1310	Prepared 50 mg/L standard by adding 1.5 mL of 1000 mg/L HACH sulfate standard, lot # N7108, no expiration, to 28.50 mL of deionized water.
1330	Analyzed sample. Samples B16CF3, B16CF5, B16C56, B16C60, B16C26, B16C30, B16C32, B16C34 and B16C81 are over range and requires dilution.
1344	Diluted samples B16C60, B16C30 and B16C32 (2X) by adding 10 mL sample to 10 mL deionized water. Diluted samples B16CF5, B16C26, B16CF3, B16C56 and B16C81 (4X) by adding 5 mL sample to 15 mL deionized water. Diluted sample B16C34 (20X) by adding 1 mL sample to 19 mL deionized water.
1400	Analyzed sample.

Sample #	Well #	Concentration (mg/L)	Date Sampled	Time Sampled	Sampler
Blank	-	0	-	-	-
50 mg/L std.	-	49	-	-	-
B16CF1	199-D5-36	22	2/21/03	08:31	DRB
B16C54	199-D5-37	37	2/21/03	09:50	RTS
**B16CF3	199-D5-38	108	2/21/03	10:22	RTS
**B16CF5	199-D5-39	116	2/21/03	08:14	RTS
**B16C56	199-D5-40	128	2/21/03	10:55	RTS
B16C58	199-D5-41	42	2/21/03	09:11	RTS
*B16C60	199-D5-42	62	2/21/03	08:40	RTS
B16C28	FTB758/ 199-D2-6	0	2/20/03	07:30	RTS
**B16C26	199-D2-6	144	2/20/03	10:45	RTS
*B16C30	199-D3-2	76	2/20/03	12:14	RTS
*B16C32	199-D3-2	78	2/20/03	12:14	RTS
***B16C34	199-D4-13	360	2/20/03	11:45	RTS
**B16C81	199-D4-15	128	2/20/03	11:09	RTS
50 mg/L std.	-	49	-	-	-

* Sample diluted 2X
** Sample diluted 4X
*** Sampl.e diluted 20X

1430 Packed up equipment.

Data were recorded real-time using a laptop computer.

Tmanthansen 2/25/03

T.M. JOHANSEN /Johansen 2/25/03

100-HR-3 Cr+6
100-ISRM Cr+6

T.M. JOHANSEN TM Johansen

Hexavalent Chromium Daily Activity Log
Project: 100-HR-3 GW Monitoring / SAF I03-013
ISRM Groundwater Monitoring / SAF I03-015
Logbook HNF-N-296 1
Date: 02/25/03

0745	T. M. Johansen and M. A. Baechler arrived on-site at 200W, HO 68N-1985 mobile laboratory. Set up to analyze samples for hexavalent chromium using a HACH DR 2010 spectrophotometer, S/N 980600009425, Method 950, low range hexavalent chromium.
0750	Prepared 0.10 mg/L standard by adding 240 µL of 12.5 mg/L HACH hexavalent chromium standard, lot # A0234, no expiration, to 29.76 mL of deionized water.
0815	Analyzed samples B16C35 through B16C16.
0830	Analyzed samples B16DX1 through B16CD0.

Sample #	Well #	Concentration (mg/L)	Date Sampled	Time Sampled	Sampler
Blank	-	<0.005	-	-	-
0.10 mg/L std.	-	0.107	-	-	-
B16C35	199-D4-14	0.009	2/24/03	09:26	RTS
B16C40	199-D4-19	<0.005	2/24/03	10:36	FMH
B16C49	199-D5-16	0.147	2/24/03	10:21	RTS
B16C61	199-D5-44	<0.005	2/24/03	09:49	RTS
B16C63	199-D5-44	<0.005	2/24/03	09:49	RTS
B16C65	199-D8-55	0.045	2/24/03	11:06	RTS
B16C24	199-D8-69	0.102	2/24/03	11:31	RTS
B16C16	199-D8-70	0.164	2/24/03	11:50	RTS
B16DX1	MS	0.026	2/24/03	11:00	KBH
B16DX2	MSD	0.025	2/24/03	11:00	KBH
B16C82	199-D4-20	0.151	2/24/03	09:15	FMH
B16C84	199-D4-20	0.154	2/24/03	09:15	FMH
B16C88	199-D4-26	0.209	2/24/03	12:19	DPC
B16C92	199-D4-32	<0.005	2/24/03	11:11	DPC
B16C94	199-D4-32	<0.005	2/24/03	11:11	DPC
B16C96	199-D4-36	0.007	2/24/03	10:00	DPC
B16CC8	199-D4-83	0.214	2/24/03	11:52	FMH
B16CD0	199-D4-83	0.214	2/24/03	11:52	FMH
0.10 mg/L std.	-	0.110	-	-	-

0845 Packed up equipment and left site.

Data recorded real time using a laptop computer.

Tamara Johansen 2/27/03

TMJ 2/27/03

T.M. JOHANSEN TM Johansen 2/27/03

304
304

T.M. JOHANSEN / TM Johansen

Sulfate Daily Activity Log
Project: ISRM GW Monitoring/SAF I03-015
100-HR-3 GW Monitoring/SAF I03-013
Date: 2/26/03

0900	T. M. Johansen arrived on-site at 200W, HO 68N-1985 mobile laboratory. Set up to analyze samples for sulfate using a HACH DR 2010 spectrophotometer, S/N 980600009425, Method 952, sulfate. Removed samples from refrigerator and allowed to warm to room temperature.
0910	Prepared 50 mg/L standard by adding 1.5 mL of 1000 mg/L HACH sulfate standard, lot # N7108, no expiration, to 28.50 mL of deionized water.
0925	Diluted samples B16CC9, B16CD1, B16CD3, B16CD9, B16CF7 (2X) by adding 10 mL sample to 10 mL deonized water. Diluted samples B16C83, B16C85, B16C93, B16C95, B16C36, B16C87 and B16C99 (4X) by adding 5 mL sample to 15 mL deonized water. Diluted samples B16C89, B16C97 and B16CC3 (10X) by adding 2 mL sample to 18 mL deionized water. Diluted samples B16C41, B16C77, B16CB3 and B16CC1 (20X) by adding 1 mL sample to 19 mL deionized water. All samples filtered through 0.45 filter.
1007	Analyzed samples.

Sample #	Well #	Concentration (mg/L)	Date Sampled	Time Sampled	Sampler
Blank	-	0	-	-	-
mg/L std.	-	50	-	-	-
*B16C83	199-D4-20	128	2/24/03	09:15	FMH
*B16C85	199-D4-20	128	2/24/03	09:15	FMH
**B16C89	199-D4-26	320	2/24/03	12:19	DPC
*B16C93	199-D4-32	236	2/24/03	11:11	DPC
*B16C95	199-D4-32	236	2/24/03	11:11	DPC
**B16C97	199-D4-36	580	2/24/03	10:00	DPC
B16CC9	199-D4-83	64	2/24/03	11:52	FMH
B16CD1	199-D4-83	64	2/24/03	11:52	FMH
*B16C36	199-D4-14	152	2/24/03	09:26	RTS
**B16C41	199-D4-19	820	2/24/03	10:36	FMH
B16C62	199-D5-44	16	2/24/03	09:49	RTS
B16C64	199-D5-44	15	2/24/03	09:49	RTS
**B16C77	199-D4-1	980	2/25/03	11:29	DEP
**B16CB3	199-D4-4	980	2/25/03	10:23	FMH
**B16CC1	199-D4-6	580	2/25/03	09:34	FMH
*B16C87	199-D4-22	196	2/25/03	10:15	RTS
*B16C99	199-D4-38	120	2/25/03	09:45	DEP
*B16CC3	199-D4-62	540	2/25/03	12:43	FMH
B16CD3	199-D4-84	90	2/25/03	10:41	RTS
B16CD9	199-D4-86	82	2/25/03	11:52	RTS
B16CF7	199-D5-43	116	2/25/03	10:30	DEP
mg/L std.	-	50	-	-	-

* Sample diluted 2X
** Sample diluted 4X
*** Sample diluted 10X
**** Sample diluted 20X

1130 Packed up equipment and left site.

Tamara Johansen 2/27/03

T.M. JOHANSEN Johansen 2/27/03

92

100-ISRM Cr+6
100-HR3 Cr+6

T.M. JOHANSEN / TM Johansen

Hexavalent Chromium Daily Activity Log
Project: 100-ISRM GW Monitoring / SAF I03-015
Logbook HNF-N-296 1
Date: 2/26/03

100-HR3 GW Monitoring / I03-013

0800	T. M. Johansen arrived on-site at 200W, HO 68N-1985 mobile laboratory. Set up to analyze samples for hexavalent chromium using a HACH DR 2010 spectrophotometer, S/N 980600009425, Method 950, low range hexavalent chromium.
0805	Prepared 0.10 mg/L standard by adding 240 µL of 12.5 mg/L HACH hexavalent chromium standard, lot # A0234, no expiration, to 29.76 mL of deionized water.
0820	Analyzed samples.
0825	Sample B16C86 over range. Sample diluted (2X) by adding 10 mL sample to 10 mL deionized water.
0840	Analyzed samples.

Sample #	Well #	Concentration (mg/L)	Date Sampled	Time Sampled	Sampler
Blank	-	<0.005	-	-	-
0.10 mg/L std.	-	0.109	-	-	-
B16C76	199-D4-1	<0.005	2/25/03	11:29	DEP
B16CB2	199-D4-4	0.006	2/25/03	10:23	FMH
B16CC0	199-D4-6	0.016	2/25/03	09:34	FMH
*B16C86	199-D4-22	1.01	2/25/03	10:15	RTS
B16C98	199-D4-38	0.104	2/25/03	09:45	DEP
B16CC2	199-D4-62	<0.005	2/25/03	12:43	FMH
B16CD2	199-D4-84	0.586	2/25/03	10:41	RTS
B16CD8	199-D4-86	0.041	2/25/03	11:52	RTS
B16C46	199-D5-13	0.785	2/25/03	12:34	DEP
B16CF6	199-D5-43	0.670	2/25/03	10:30	DEP
0.10 mg/L std.	-	0.109	-	-	-

* Sample diluted 2X

TMJ 2-27-03

~~1500 Packed up equipment and left site.~~
~~0900~~ TMJ 2-27-03

Data recorded real time using a laptop computer.

2/27/03

Tamara Johansen

T.M. JOHANSEN / TM Johansen 2/27/03

100-ISRM 304

T.M. JOHANSEN

Sulfate Daily Activity Log
Project: ISRM GW Monitoring/SAF I03-015
Date: 02/26/03

1410	T. M. Johansen arrived on-site at 200W, HO 68N-1985 mobile laboratory. Set up to analyze samples for sulfate using a HACH DR 2010 spectrophotometer, S/N 980600009425, Method 952, sulfate. Removed samples from refrigerator and allowed to warm to room temperature.
1415	Prepared 50 mg/L standard by adding 1.5 mL of 1000 mg/L HACH sulfate standard, lot # N7108, no expiration, to 28.50 mL of deionized water.
1422	Analyzed sample
1430	Diluted sample B16CC7 (10X) by adding 2 mL sample to 18 mL deionized water.
1440	Analyzed sample.

Sample #	Well #	Concentration (mg/L)	Date Sampled	Time Sampled	Sampl
Blank	-	0	-	-	-
50 mg/L std.	-	50	-	-	-
*B16CC7	199-D4-78	600	2/26/03	11:01	RTS
50 mg/L std.	-	50	-	-	-

* Sample diluted 10X

1500 Packed up equipment.

Data were recorded real-time using a laptop computer.

T.M. JOHANSEN 2/27/03

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-3

Page 1 of 1

Collector D. E. PARCHEN	Contact/Requester DL STEWART	Telephone No. (509) 376-5056 MSIN FAX
SAF No. I03-015	Sampling Origin HANFORD SITE	Purchase Order/Charge Code
Project Title CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No. DFSNW-SMW5-1165	Ice Chest No. SML-125 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16C76 (F)		W	2-25-03	1129	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B16C77		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	D. E. PARCHEN	[signature]	2/26/03 0745	T.M. Johansen	T.M. Johansen	[signature]	2/26/03 0745
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

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	

FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By T.M. JOHANSEN

Date/Time

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-5

Page 1 of 1

Collector: DURATEK R. T. SICKLE	Contact/Requester: DL STEWART	Telephone No.: (509) 376-5056 MSIN FAX
SAF No.: I03-015	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No.: DFSNW-SAWS-H62	Ice Chest No.: SML137 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16C80 (F)		W	2-20-03	1109	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B16C81		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK R. T. SICKLE			2/21/03 0800				2/21/03 0800
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

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	

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, lab procedure, used in process): Return to Origin — Disposed By: [illegible] — Date/Time: 2/21/03 1300

TMJ 2/21/03 1500

10000011

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-6

Page 1 of 1

Collector: F. M. HALL	Contact/Requester: DL STEWART	Telephone No.: (509) 376-5056 MSIN FAX
SAF No.: I03-015	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No.: DFSNW-SAWS H 64	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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16C82 (F)		W	2-24-03	0915	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B16C83		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	F. M. HALL		FEB 25 2003 0725		M. H. Bouchler	M. G. Bouchler	FEB 25 2003 0725
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

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

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By: T.M. JOHANSEN Date/Time

0000012

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-7

Page 1 of 1

Collector: F. M. HALL	Contact/Requester: DL STEWART	Telephone No.: (509) 376-5056 MSIN FAX
SAF No.: I03-015	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA JSRM GW MONITORING, FEBRUARY 2003	Logbook No.: DFSNW-SAWS H64	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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16C84 (F)		W	2-24-03	0915	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B16C85		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. M. HALL			FEB 25 2003 0725	M.H. Bachler		M.H. Bachler	FEB 25 2003 0725
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

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

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By: T.M. JOHANSEN Date/Time

00001 3

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-8

Page 1 of 1

Collector: R.T. SICKLE	Contact/Requester: DL STEWART	Telephone No.: (509) 376-5056 MSIN FAX
SAF No.: I03-015	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No.: DFSNW-SAWS-H62	Ice Chest No.: SML-137 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16C86 (F)		W	2/25/03	1015	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B16C87		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

J. Wall 2/25/03

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R.T. SICKLE			2/26/03 0745				2/26/03 0745
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

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	

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By: T.M. JOHANSEN Date/Time

000014

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-10

Page 1 of 1

Collector: J.P. CONNOLLY	Contact/Requester: DL STEWART	Telephone No.: (509) 376-5056 MSIN FAX
SAF No.: I03-015	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No.: DFSNW-SAWS-H65	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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16C88 (F)		W	2-24-03	1219	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B16C89		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
J.P. CONNOLLY	FEB 25 2003 0725	M.G. Bachler	FEB 25 2003 0725

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	

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By: T.M. JOHANSEN Date/Time

0000015

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-14

Page 1 of 1

Collector: J.P. CONNOLLY	Contact/Requester: DL STEWART	Telephone No.: (509) 376-5056 MSIN FAX
SAF No.: 103-015	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No.: DFSNW-SHWS-H65	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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16C92 (F)		W	2-24-03	1111	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B16C93		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	J.P. CONNOLLY	J P C	FEB 25 2003 0725		M.H. Buchler	M.G. Buchler	FEB 25 2003 0725
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

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

FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By: T.M. JOHANSEN

Date/Time

0004016

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-15

Page 1 of 1

Collector: D.P. CONNOLLY	Contact/Requester: DL STEWART	Telephone No.: (509) 376-5056 MSIN FAX
SAF No.: I03-015	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No.: DFSNW-SAWS-H65	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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16C94 (F)		W	2-24-03	1111	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B16C95		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
D.P. CONNOLLY / [signature]	FEB 25 2003 0725	M.H. Bachler / M.G. Bachler	FEB 25 2003 0725

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	

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By: T.M. JOHANSEN Date/Time

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-16

Collector: D.P. CONNOLLY	Contact/Requester: DL STEWART	Telephone No.: (509) 376-5056 MSIN FAX
SAF No.: I03-015	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No.: DESNW-SHNS-H65	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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16C96 (F)		W	2-24-03	1000	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B16C97		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	D.P. CONNOLLY	[signature]	FEB 25 2003 0725		M.G. Bachler	M.G. Bachler	FEB 25 2003 0725
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By: T.M. JOHANSEN	Date/Time

000017

PNNL

D. E. PARCHEN

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-18

Page 1 of 1

Collector	Contact/Requester DL STEWART	Telephone No. (509) 376-5056 MSIN FAX
SAF No. I03-015	Sampling Origin HANFORD SITE	Purchase Order/Charge Code
Project Title CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No. DFSNW-SHWS-H65	Ice Chest No. SM2-125 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16C98 (F)		W	2-25-03	0945	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B16C99		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

Relinquished By	Received By
Print: D. E. PARCHEN Sign: [signature] Date/Time: 2/25/03 0945	Print: T.M. JOHANSEN Sign: [signature] Date/Time: 2/25/03 0945
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time

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

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By: T.M. JOHANSEN Date/Time

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PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-22

Collector: F. M. HALL	Contact/Requester: DL STEWART	Telephone No.: (509) 376-5056 MSIN FAX
SAF No.: I03-015	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No.: DFSMW-SAW5 H64	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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16CB2 (F)		W	2-25-03	1023	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B16CB3		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. M. HALL			2/26/03 0745				2/26/03 0745
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

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

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By: T.M. JOHANSEN Date/Time

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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-30

Page 1 of 1

Collector: F. M. HALL	Contact/Requester: DL STEWART	Telephone No.: (509) 376-5056 MSIN FAX
SAF No.: I03-015	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No.: DFJNLW-JAWS H641	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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16CC0 (F)		W	2-25-03	0934	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B16CC1		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
F. M. HALL [signature]	2/26/03 0745	TM Johansen [signature]	2/26/03 0745

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	

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By: T.M. JOHANSEN Date/Time

00000121

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-32

Page 1 of 1

Collector: F. M. HALL	Contact/Requester: DL STEWART	Telephone No.: (509) 376-5056 MSIN FAX
SAF No.: I03-015	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No.: DFSNW-SAWS H 64	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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16CC2 (F)		W	2-25-03	1243	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B16CC3		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. M. HALL			2/26/03 0045	TM Johansen			2/26/03 0045
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

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

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By: T.M. JOHANSEN Date/Time

000092

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-36

Page 1 of 1

Collector: R.T. SICKLE	Contact/Requester: DL STEWART	Telephone No.: (509) 376-5056 MSIN FAX
SAF No.: I03-015	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No.: DFSNW-SAWS-H62	Ice Chest No.: SMC-137 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16CC6 (F)		W	2/26/03	1101	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B16CC7		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

R. Wall 2/26/03

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
R.T. SICKLE	2/26/03 1320	T.M. Johansen	2/26/03 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	

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By: T.M. JOHANSEN Date/Time

0000023

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-38

Page 1 of 1

Collector: F. M. HALL	Contact/Requester: DL STEWART	Telephone No.: (509) 376-5056 MSIN FAX
SAF No.: I03-015	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No.: DFSNW-SAWS H64	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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16CC8 (F)		W	2-24-03	1152	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B16CC9		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. M. HALL			FEB 25 2003 0725	M.H. Buechler		M.H. Buechler	FEB 25 2003 0725
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

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

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By: T.M. JOHANSEN Date/Time

00000024

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-39

Page 1 of 1

Collector: F. M. HALL	Contact/Requester: DL STEWART	Telephone No.: (509) 376-5056 MSIN FAX
SAF No.: I03-015	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No.: DFSNW-SAWS H64	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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16CD0 (F)		W	2-24-03	1152	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B16CD1		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. M. HALL			FEB 25 2003 0725	M.H. Bachler	M.G. Bachler		FEB 25 2003 0725

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	

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By: T.M. JOHANSEN Date/Time

000025

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-40

Page 1 of 1

Collector: R.T. SICKLE	Contact/Requester: DL STEWART	Telephone No.: (509) 376-5056 MSIN FAX
SAF No.: I03-015	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No.: DFSNW-SAWS-H62	Ice Chest No.: SMC-137 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16CD2 (F)		W	2/25/03	1041	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B16CD3		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

L. Wall 2/25/03

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	R.T. SICKLE		2/26/03 0745		T.M. JOHANSEN		2/26/03 0745
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

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

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By: T.M. JOHANSEN Date/Time

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-46

Page 1 of 1

Collector: R.T. SICKLE	Contact/Requester: DL STEWART	Telephone No.: (509) 376-5056 MSIN FAX
SAF No.: 103-015	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No.: DFSNW-SAWS-H62	Ice Chest No.: SML-137 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16CD8 (F)		W	2/25/03	1152	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B16CD9		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

L. Wall 2/25/03

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
R.T. SICKLE	2/26/03 0745	T.M. Johansen	2/26/03 0745

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	

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By: T.M. JOHANSEN Date/Time

0000027

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-48

Page 1 of 1

Collector: D. R. BREWINGTON	Contact/Requester: DL STEWART	Telephone No.: (509) 376-5056 MSIN FAX
SAF No.: I03-015	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No.: DFSNW-SAWS-H65	Ice Chest No.: SML125 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16CF0 (F)		W	2-21-03	0831	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B16CF1		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

2-21-03

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
D. R. BREWINGTON D.R. Brewington	2-21-03 1210	Thomsen/Thomsen	2-21-03 1210

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	

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process): Return to Origin — Disposed By: Thomsen/Thomsen — Date/Time: 2/21/03 1500

0000028

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-50

Page 1 of 1

Collector: R.T. SICKLE	Contact/Requester: DL STEWART	Telephone No.: (509) 376-5056 MSIN FAX
SAF No.: I03-015	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No.: DFSNW - SAWS - H62	Ice Chest No.: SMC-137 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16CF2 (F)		W	2/21/03	1022	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B16CF3		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

R. Wall
2/21/03

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
R.T. SICKLE	2-21-03 1210	T.M. Johansen	2-21-03 1210

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

FINAL SAMPLE DISPOSITION: Disposal Method (e.g. Return to customer, per lab procedure, used in process): Return to Project

Disposed By: T.M. JOHANSEN Date/Time: 2/21/03 1500

000029

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-52

Page 1 of 1

Collector: R.T. SICKLE	Contact/Requester: DL STEWART	Telephone No.: (509) 376-5056 MSIN FAX
SAF No.: I03-015	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No.: DFSNW-SAWS-H62	Ice Chest No.: SMC-137 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16CF4 (F)		W	2/21/03	0814	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B16CF5		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

J. Wade 2/21/03

Relinquished By	Received By
Print: R.T. SICKLE Sign: [signature] Date/Time: 2-21-03 1210	Print: [illegible] Sign: [signature] Date/Time: 2-21-03 1210
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time

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

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process): Return to Project

Disposed By: T.M. JOHANSEN Date/Time: 2/21/03 1500

0000030

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-54

Page 1 of 1

Collector D.E. PARCHEN	Contact/Requester DL STEWART	Telephone No. (509) 376-5056 MSIN FAX
SAF No. I03-015	Sampling Origin HANFORD SITE	Purchase Order/Charge Code
Project Title CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No. DFSNW-SAWS-H65	Ice Chest No. SML-125 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16CF6 (F)		W	2-25-03	1030	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B16CF7		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. E. PARCHEN	D. E. PARCHEN	[signature]	2/26/03 0745	[signature]	[signature]	[signature]	2/26/03 0745
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By T.M. JOHANSEN	Date/Time

000031

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-55

Page 1 of 1

Collector: Karl Hulse	Contact/Requester: DL STEWART	Telephone No.: (509) 376-5056 MSIN FAX
SAF No.: I03-015	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No.	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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16DX1 (F)		W	2/24/03	1100	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK	K. B. HULSE	KB Hulse	2/25/03 0725	M.H. Gauther	M.H. Gauther	M.H. Gauther	2/25/03 0725

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	

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By: T.M. JOHANSEN Date/Time

0000032

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I03-015-56

Page 1 of 1

Collector: Karl Hulse	Contact/Requester: DL STEWART	Telephone No.: (509) 376-5056 MSIN FAX
SAF No.: I03-015	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA ISRM GW MONITORING, FEBRUARY 2003	Logbook No.	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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B16DX2 (F)		W	2/24/03	1100	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	DURATEK K. B. HULSE	K B Hulse	2/25/03 0725	M.H. Bowker	M.H. Bowker		2/25/03 0725
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By: T.M. JOHANSEN	Date/Time

000033