0088448

FIELD SCREENING
FINAL DATA DELIVERABLE COVER SHEET

Date: Wednesday, November 9, 2005

Sample Authorization Form (SAF) Number: I05-025

SDG Number (assigned by Sample Management): FP0264 Dayes

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

12/7/05

RECEIVED
JUN 03 2010
EDMC

Total number of pages (including cover sheet): TMD 9/6/06 ~~38~~ 21

Comments:
HR3 - Hexavalent Chromium – Sulfate - Water

THESE TESTS WERE CONDUCTED USING QC-1

SEP 2006
RECEIVED

Margie Adams — Analyst Signature — 11/09/05 Date

Reviewer's Signature — 9/6/06 Date

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

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

On-Site Measurement of Cr +6

100-HR-3 Groundwater

SAF: I05-025
Procedure: GRP-EE-05-1.17
Logbook: HNF-N-296 3 Page 149

3/1/2005

Location	HEIS Number	SAF	Date Collected	Time Collected	Sampler (Initials)	Sample Media	Date Analyzed	Time Analyzed	Analyst (Initials)	Cr +6 (mg/L)	Conductivity (us/cm)
199-H4-63	B1CCR7	I05-025	3/1/2005	11:38	RTS	Water	3/1/2005	13:50	DJA	0.048	522
199-H4-5	B1CCR6	I05-025	3/1/2005	12:07	RTS	Water	3/1/2005	13:50	DJA	0.046	540

Logbook: HNF-N-296 4 Page 6

3/23/2005

Location	HEIS Number	SAF	Date Collected	Time Collected	Sampler (Initials)	Sample Media	Date Analyzed	Time Analyzed	Analyst (Initials)	Cr +6 (mg/L)	Conductivity (us/cm)
FTB954/ 199-D5-38	B1CCT2	I05-025	3/23/2005	7:30	FMH	Water	3/23/2005	13:20	DJA	<0.005	---
199-D5-38	B1CCT0	I05-025	3/23/2005	8:41	FMH	Water	3/23/2005	13:20	DJA	0.162	568
199-D5-39	B1CCT4	I05-025	3/23/2005	9:18	FMH	Water	3/23/2005	13:20	DJA	0.337	339
199-D5-39	B1CCT6	I05-025	3/23/2005	9:18	FMH	Water	3/23/2005	13:20	DJA	0.338	339
199-D5-43	B1CCT8**	I05-025	3/23/2005	10:17	FMH	Water	3/23/2005	13:20	DJA	1.300	576
199-D5-92	B1CCR1	I05-025	3/23/2005	11:04	FMH	Water	3/23/2005	13:20	DJA	0.383	286
199-D4-15	B1CCR8**	I05-025	3/23/2005	11:30	FMH	Water	3/23/2005	13:20	DJA	1.384	703

Logbook: HNF-N-296 4 Page 8

3/24/2005

Location	HEIS Number	SAF	Date Collected	Time Collected	Sampler (Initials)	Sample Media	Date Analyzed	Time Analyzed	Analyst (Initials)	Cr +6 (mg/L)	Conductivity (us/cm)
199-D8-88	B1CCR5	I05-025	3/24/2005	10:20	FMH	Water	3/24/2005	14:05	DJA	0.052	330

Logbook: HNF-N-296 4 Page 10

3/28/2005

Location	HEIS Number	SAF	Date Collected	Time Collected	Sampler (Initials)	Sample Media	Date Analyzed	Time	Analyst (Initials)	Cr +6 (mg/L)	Conductivity (us/cm)
199-D8-73	B1CCR4	I05-025	3/28/2005	8:43	DPC	Water	3/28/2005	13:25	DJA	0.172	404
199-D8-69	B1CCR2	I05-025	3/28/2005	9:11	DPC	Water	3/28/2005	13:25	DJA	0.058	366
199-D8-70	B1CCR3	I05-025	3/28/2005	11:26	DPC	Water	3/28/2005	13:25	DJA	0.132	645

* 2X Dilution
** 4X Dilution

Analyst: DJ Alexander Date: 2/25/2005

\\wp014\afsfieldsc\cr6data\HR3 Data\cr6_hmar.xls

On-Site Measurement of SO_4

100-HR-3 Groundwater

SAF: I05-025
Procedure: GRP-EE-05-1.18
Logbook: HNF-N-296 4 Page 7

3/23/2005

Location	Heis Number	SAF	Date Collected	Time Collected	Sampler (Initials)	Sample Media	Date Analyzed	Time Analyzed	Analyst (Initials)	SO_4 (mg/L)
FTB954/ 199-D5-38	B1CCT3	I05-025	3/23/2005	7:30	FMH	Water	3/23/2005	13:45	DJA	0
199-D5-38	B1CCT1**	I05-025	3/23/2005	8:41	FMH	Water	3/23/2005	13;45	DJA	88
199-D5-39	B1CCT5*	I05-025	3/23/2005	9:18	FMH	Water	3/23/2005	13:45	DJA	40
199-D5-39	B1CCT7*	I05-025	3/23/2005	9:18	FMH	Water	3/23/2005	13:45	DJA	48
199-D5-43	B1CCT9**	I05-025	3/23/2005	10:17	FMH	Water	3/23/2005	13:45	DJA	116
199-D4-15	B1CCR9**	I05-025	3/23/2005	11:30	FMH	Water	3/23/2005	13:45	DJA	136

* 2X Dilution
** 4X Dilution
*** 5X Dilution
***** 20X Dilution

Analyst: DJ Alexander Date: 3/23/2005

\\ap014\afsfieldsc\cr6data\HR3 Data\hs04_mar.xls

00000003

100-HR3 Cr^{+6} DJAlexander/GS/DJalexander

Hexavalent Chromium Daily Activity Log

Project: 100-HR-3 IAM GW Monitoring / SAF I05-025

Logbook HNF-N-296 3

Date: 03/01/05

DJalexander 3-2-05

1330	D.J. Alexander 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.
1335	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.
1350	Analyzed samples.

Sample #	Well #	SAF #	Concentration (mg/L)	Date Sampled	Time Sampled	Sampler	Conductivity (µs/cm)
0.10 mg/L std.	---	---	0.108	---	---	---	---
Blank	---	---	<0.005	---	---	---	---
B1CCR7	199-H4-63	I05-025	0.048	03/01/05	11:38	RTS	522
B1CCR6	199-H4-5	I05-025	0.046	03/01/05	12:07	RTS	540
Blank	---	---	<0.005	---	---	---	---
0.10 mg/L std.	---	---	0.103	---	---	---	---

Data recorded real time using a laptop computer.

DJa 3-2-05

DJalexander 3-2-05
D.J. ALEXANDER

Reviewed By TIM JOHANSEN 3/7/05

00000004

100-HR3 SO_4^{2-}

DJ Alexander/GSI
DJAlexander

Sulfate Daily Activity Log
Project: 100 HR-3 GW Monitoring
SAF I05-025
Logbook HNF-N-296 4
Date: 03/23/05

DJAlexander 3-23-05

1301	D.J. Alexander arrives 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.
1330	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.
1345	Analyzed sample.

Sample #	Well #	SAF #	Concentration (mg/L)	Date Sampled	Time Sampled	Sampler
Blank	---	---	0	---	---	---
50 mg/L std.	---	---	50	---	---	---
B1CCT3	FTB954/ 199-D5-38	I05-025	0	03/23/05	07:30	FMH
B1CCT1**	199-D5-38	I05-025	88	03/23/05	08:41	FMH
B1CCT5*	199-D5-39	I05-025	40	03/23/05	09:18	FMH
B1CCT7*	199-D5-39	I05-025	48	03/23/05	09:18	FMH
B1CCT9**	199-D5-43	I05-025	116	03/23/05	10:17	FMH
B1CCR9**	199-D4-15	I05-025	136	03/24/05	11:30	FMH
50 mg/L std.	---	---	50	---	---	---
Blank	---	---	0	---	---	---

* 2X Dilution
** 4X Dilution

Data recorded real time using a laptop computer.

DJA 3-23-05

DJAlexander 3-23-05
D.J. ALEXANDER

Reviewed
By: M.A. Baechler
M.A. Baechler
JUN 1 3 2005

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100-HR3 Cr+6

DJ Alexander /GS/ DJAlexander

Hexavalent Chromium Daily Activity Log

Project: 100-HR-3 IAM GW Monitoring / SAF I05-025

Logbook HNF-N-296 4

Date: 03/24/05

DJAlexander 3-24-05

1350	D.J. Alexander 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.
1355	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.
1405	Analyzed sample.

Sample #	Well #	SAF #	Concentration (mg/L)	Date Sampled	Time Sampled	Sampler	Conductivity (µs/cm)
0.10 mg/L std.	---	---	0.107	---	---	---	---
Blank	---	---	<0.005	---	---	---	---
B1CCR5	199-D8-88	I05-025	0.052	03/24/05	10:20	FMH	330
Blank	---	---	<0.005	---	---	---	---
0.10 mg/L std.	---	---	0.103	---	---	---	---

Data recorded real time using a laptop computer.

DJA 3-24-05

DJAlexander 3-24-05

D.J. ALEXANDER

Reviewed

By: M.A. Buechler

JUN 13 2005

M.A. Buechler

00000006

100-HR3 Cr^{+6}

DJAlexander/GS/DJalexander

Hexavalent Chromium Daily Activity Log

Project: 100-HR-3 IAM GW Monitoring / SAF I05-025

Logbook HNF-N-296 4

Date: 03/28/05

DJalexander 3-28-05

1310	D.J. Alexander 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.
1315	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.
1325	Analyzed sample.

Sample #	Well #	SAF #	Concentration (mg/L)	Date Sampled	Time Sampled	Sampler	Conductivity (µs/cm)
0.10 mg/L std.	---	---	0.104	---	---	---	---
Blank	---	---	<0.005	---	---	---	---
B1CCR4	199-D8-73	I05-025	0.172	03/28/05	08:43	DPC	404
B1CCR2	199-D8-69	I05-025	0.058	03/28/05	09;11	DPC	366
B1CCR3	199-D8-70	I05-025	0.132	03/28/05	11:26	DPC	645
Blank	---	---	<0.005	---	---	---	---
0.10 mg/L std.	---	---	0.104	---	---	---	---

Data recorded real time using a laptop computer.

DJ 3-28-05

DJAlexander 3-28-05

D.J. ALEXANDER

Reviewed By. M.A. Bachler JUN 13 2005

M.A. Bachler

GROUNDWATER SAMPLE REPORT

Project: CERCLA / 100HR3IAM(1)		Date: MAR 28 2005	Page 1 of 1
Task Order/Month: Mar 05	QC Type:	Calculations: 65/8 = 9 Sub.	
Well Number: 199-D8-69	A#: B2773		
Total Purge Volume (gal): 136	Purge Flow Rate (gal/min):		

Pump Type:	Time on:	Water:	Purge:	Samp.:	Off:
Sub	0857	0857	0906	0911	0914

SAMPLES COLLECTED

B1CCR2 (Filtered) 1;40mL;aGs* Mobile Field Laboratory COLOR_TK_FLD: Hexavalent Chromium (1) (None)

COC No.: I05-025-14

4765010

D. P. CONNOLLY

Collector:

Total No. Bottles: 1 Containment Code:

FIELD MEASUREMENTS

Water Level (TOC): 14.435			Drawdown (TOC): 14.461			Oil Sheen Yes ☐ No ☑				
Prev. pH:			Prev. DTW:			E-Tape No.: DTS.001				
Time	0900	0904	0908	0910	0913					
pH	7.01	7.37	7.48	7.51	7.55					
Temp. (°C)	18.5	18.8	18.8	18.8	18.7					
Cond. (µs/cm)	362	365	366	366	367			3-28-05		
Turb. (NTU)	1.38	—	.39	.31	.47					
~~D. O. (mg/L)~~										

FIELD OBSERVATIONS

Weather: CLEAR CALM

Field Comments:

Pre Check: pH 7.04 @ 18.1°C
STD 7.02 @ 20°C

Post Check: COND 443 STD 445
pH 7.00 @ 17.8°C
STD 7.02 @ 20°C

Comments:

Well capped and locked: ☑ Yes ☐ No

Logbook/Pg#: DTS-SAWS-486/64

Samples Surveyed for Gamma Radiation by RPTs: ☐ Yes ☑ No

Data Recorded by: R.T. SICKLE — Print and sign name — Date: MAR 28 2005

Data Checked by: Print and sign name — Date

00000008

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I05-025-12

Page 1 of 1

Collector: ~~DURATEK~~ ~~F. M. HALL~~	Contact/Requester: DL STEWART	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: I05-025	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA 100 HR3IAM, MARCH 2005	DTF SAWS H 86	Ice Chest No. Temp.
Shipped To (Lab): Mobile Field Laboratory	Method of Shipment: GOVT. VEHICLE	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "I05" SAF's into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1CCR1 (F)		W	3-23-05	1104	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
~~DURATEK~~ ~~F. M. HALL~~			~~1400~~ 1243 3-23-05 MAR 2 3 2005	~~FED EX~~	DJ Alexander	DJ Alexander	MAR 2 3 2005 1243
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 = Wine	
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	Date/Time
	RETURNED TO OU	D.J. ALEXANDER DJ Alexander	3-23-05/1340

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I05-025-14

Page 1 of 1

Collector: D. P. CONNOLLY	Contact/Requester: DL STEWART	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: I05-025	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA 100 HR3IAM, MARCH 2005	SRWS-H86	Ice Chest No.: SRWS-113 Temp.
Shipped To (Lab): Mobile Field Laboratory	Method of Shipment: GOVT. VEHICLE	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "I05" SAF's into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1CCR2 (F)		W	3-28-05	0911	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
D. P. CONNOLLY	3-28-05/1257	DJ Alexander	3-28-05/1257

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
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): RETURNED TO OU

Disposed By: D.J. ALEXANDER Date/Time: 3-28-05/1330

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PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I05-025-16

Page 1 of 1

Collector: D. P. CONNOLLY	Contact/Requester: DL STEWART	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: I05-025	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA 100 HR3IAM, MARCH 2005	SAWS-1486	Ice Chest No.: SAWS-113 Temp.
Shipped To (Lab): Mobile Field Laboratory	Method of Shipment: GOVT. VEHICLE	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "I05" SAF's into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1CCR3 (F)		W	3-28-04	1126	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
D. P. CONNOLLY	1257 3-28-05	DJ Alexander / DJ Alexander	1257 3-28-05

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
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): RETURNED TO OU

Disposed By: D.J. ALEXANDER / DJ Alexander Date/Time: 3-28-05/1330

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PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I05-025-18**

Page 1 of 1

Collector: D.P. CONNOLLY	Contact/Requester: DL STEWART	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: I05-025	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA 100 HR3IAM, MARCH 2005	SAWS-H86	Ice Chest No.: SAWS-113 Temp.
Shipped To (Lab): Mobile Field Laboratory	Method of Shipment: GOVT. VEHICLE	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "I05" SAF's into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1CCR4 (F)		W	3-28-05	0843	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. P. CONNOLLY		[signature]	3-28-05/1257	DJ Alexander	DJ Alexander		3-28-05/1257
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) RETURNED TO OU

Disposed By: D.J. ALEXANDER [signature] Date/Time: 3-28-05/1330

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PNNL

DURATEK

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I05-025-20

Page 1 of 1

Collector: L. D. WALL	Contact/Requester: DL STEWART	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: I05-025	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA 100 HR3IAM, MARCH 2005	DTS-SAWS-H90	Ice Chest No.: SML-124 Temp.
Shipped To (Lab): Mobile Field Laboratory	Method of Shipment: GOVT. VEHICLE	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "I05" SAF's into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1CCR5 (F)		W	3/24/5	1020	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK L. D. WALL	L.D. Wall		MAR 24 2005 / 1334	DJ Alexander		DJ Alexander	MAR 24 2005 / 1334
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	= Wine
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) RETURNED TO OU

Disposed By: D.J. ALEXANDER DJ Alexander Date/Time: 3-24-05 / 1415

00000013

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I05-025-22

Page 1 of 1

Collector R.T. SICKLE	Contact/Requester DL STEWART	Telephone No. 509-376-5056 MSIN FAX
SAF No. I05-025	Sampling Origin HANFORD SITE	Purchase Order/Charge Code
Project Title CERCLA 100 HR3IAM, MARCH 2005	DTS-SAW3-1189	Ice Chest No. GWS-106 Temp.
Shipped To (Lab) Mobile Field Laboratory	Method of Shipment GOVT. VEHICLE	Bill of Lading/Air Bill No.
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "I05" SAF's into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1CCR6 (F)		W	3-1-05	1207	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
R.T. SICKLE	3-1-05/1255	DJ Alexander / DJ Alexander	3-1-05/1255

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) RETURNED TO OU

Disposed By D.J. ALEXANDER / DJ Alexander Date/Time 3-1-05/1420

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PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I05-025-24

Page 1 of 1

Collector R.T. SICKLE	Contact/Requester DL STEWART	Telephone No. 509-376-5056 MSIN FAX
SAF No. I05-025	Sampling Origin HANFORD SITE	Purchase Order/Charge Code
Project Title CERCLA 100 HR3IAM, MARCH 2005	DTS-SAMS-1489	Ice Chest No. GMS-106 Temp.
Shipped To (Lab) Mobile Field Laboratory	Method of Shipment GOVT. VEHICLE	Bill of Lading/Air Bill No.
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "I05" SAF's into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1CCR7 (F)		W	3-1-05	1138	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None

Relinquished By	Date/Time	Received By	Date/Time
Print R.T. SICKLE Sign	3-1-05 / 1255	Print DJ Alexander Sign	3-1-05 / 1255
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 Liquid	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
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) RETURNED TO OU

Disposed By D.J. ALEXANDER Date/Time 3-1-05 / 1420

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PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I05-025-1

Page 1 of 1

Collector: DURATEK F. M. HALL	Contact/Requester: DL STEWART	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: I05-025	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA 100 HR3IAM, MARCH 2005	DTS- SAWS H86	Ice Chest No.: SAWS 113 Temp.
Shipped To (Lab): Mobile Field Laboratory	Method of Shipment: GOVT. VEHICLE	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "I05" SAF's into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1CCR8 (F)		W	3-23-05	1130	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B1CCR9		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK F. M. HALL			MAR 2 3 2005 1243	DJ Alexander		DJ alexander	MAR 2 3 2005 1243

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
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) RETURNED TO OU

Disposed By: D.J. ALEXANDER DJ alexander Date/Time: 3-23-05/1340

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PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I05-025-2

Page 1 of 1

Collector DURATEK F. M. HALL	Contact/Requester DL STEWART	Telephone No. 509-376-5056 MSIN FAX
SAF No. I05-025	Sampling Origin HANFORD SITE	Purchase Order/Charge Code
Project Title CERCLA 100 HR3IAM, MARCH 2005	DTS- SAW1 H 8'6	Ice Chest No. SAW5 113 Temp.
Shipped To (Lab) Mobile Field Laboratory	Method of Shipment GOVT. VEHICLE	Bill of Lading/Air Bill No.
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "I05" SAF's into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1CCT0 (F)		W	3-23-05	0841	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B1CCT1		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK F. M. HALL			MAR 2 3 2005 1243	DJ Alexander		DJ Alexander	MAR 2 3 2005 1243
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 = Wine	
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) RETURNED TO OU

Disposed By D.J. ALEXANDER DJ Alexander Date/Time 3-23-05 / 1340

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PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I05-025-3

Page 1 of 1

Collector: DURATEK ~~F. M. HALL~~	Contact/Requester: DL STEWART	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: I05-025	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA 100 HR3IAM, MARCH 2005	DTS - SAWS H&G	Ice Chest No.: SAWS 113 Temp.
Shipped To (Lab): Mobile Field Laboratory	Method of Shipment: GOVT. VEHICLE	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "I05" SAF's into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1CCT2 (F)		W	3-23-05	0730	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B1CCT3		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK ~~F. M. HALL~~			MAR 2 3 2005 1243	DJ Alexander		DJ Alexander	MAR 2 3 2005 1243
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) RETURNED TO OU

Disposed By: D.J. ALEXANDER DJ Alexander Date/Time: 3-23-05/1340

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PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I05-025-4

Page 1 of 1

Collector: DURATEK F. M. HALL	Contact/Requester: DL STEWART	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: I05-025	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA 100 HR3IAM, MARCH 2005	ATS- SAWS H 86	Ice Chest No.: SAWS 113 Temp.
Shipped To (Lab): Mobile Field Laboratory	Method of Shipment: GOVT. VEHICLE	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "I05" SAF's into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1CCT4 (F)		W	3-23-05	0918	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B1CCT5		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
DURATEK F. M. HALL	[signature]	1243 MAR 2 3 2005	DJ Alexander	DJ Alexander	1243 MAR 2 3 2005
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	= Wine
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): RETURNED TO OU

D.J. ALEXANDER Disposed By: DJ Alexander Date/Time: 3-23-05 / 1340

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PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I05-025-5

Page 1 of 1

Collector: DUPATEK F. M. HALL	Contact/Requester: DL STEWART	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: I05-025	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA 100 HR3IAM. MARCH 2005	DTS - SAWS 1486	Ice Chest No.: SAWS 113 Temp.
Shipped To (Lab): Mobile Field Laboratory	Method of Shipment: GOVT. VEHICLE	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "I05" SAF's into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1CCT6 (F)		W	3-23-05	0918	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B1CCT7		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DUPATEK F. M. HALL			1243 MAR 2 3 2005	DJ Alexander		DJ Alexander	1243 MAR 2 3 2005
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	=	Wine
W	=	Water	L	=	Liquid
O	=	Oil	V	=	Vegetation
A	=	Air	X	=	Other

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, special procedure used in process): RETURNED TO OU

Disposed By: D.J. ALEXANDER DJ Alexander Date/Time: 3-23-05 / 1340

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PNNL

DURATEX
F. M. HALL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I05-025-6

Page 1 of 1

Collector: DURATEX F. M. HALL	Contact/Requester: DL STEWART	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: I05-025	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: CERCLA 100 HR3IAM, MARCH 2005	DTS- SAWS H86	Ice Chest No.: SAWS 113 Temp.
Shipped To (Lab): Mobile Field Laboratory	Method of Shipment: GOVT. VEHICLE	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "I05" SAF's into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1CCT8 (F)		W	3-23-05	1017	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B1CCT9		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEX F. M. HALL			MAR 2 3 2005 1243	DJ Alexander		DJ Alexander	MAR 2 3 2005 1243
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 = Wine	
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) RETURNED TO OU

Disposed By: D.J. ALEXANDER DJ Alexander

Date/Time: 3-23-05 / 1340

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