FIELD SCREENING
FINAL DATA DELIVERABLE COVER SHEET

Date: Wednesday, July 12, 2006

Sample Authorization Form (SAF) Number: I06-041

SDG Number (assigned by Sample Management): FP0312 Doris Ayres 7/18/06

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

RECEIVED
JUN 0 3 2010
EDMC

Total number of pages (including cover sheet): 12

Comments:
KR-4 - Hexavalent Chromium - Water

THESE TESTS WERE CONDUCTED USING QC-1

AUG 2006
RECEIVED

Analyst Signature — Date: 7-12-06

Reviewer's Signature — Date: 8/10/06

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-KR-4 Groundwater

SAF: I06-041

Procedure: GRP-EE-05-1.17

Logbook: HNF-N-296 6 Page 84

6/1/2006

Location	HEIS Number	SAF	Date Collected	Time Collected	Sampler (Initials)	Sample Media	Date Analyzed	Time Analyzed	Analyst (Initials)	Cr +6 (mg/L)	Conductivity (µs/cm)
199-K-20	B1JD68	I06-041	6/1/2006	9:12	KJY	Water	6/1/2006	20:35	DJA	0.062	344
199-K-20	B1JD69	I06-041	6/1/2006	9:12	KJY	Water	6/1/2006	20:35	DJA	0.061	344
199-K-18	B1JD64	I06-041	6/1/2006	10:03	KJY	Water	6/1/2006	20:35	DJA	0.150	481

Logbook: HNF-N-296 6 Page 85

6/5/2006

Location	HEIS Number	SAF	Date Collected	Time Collected	Sampler (Initials)	Sample Media	Date Analyzed	Time Analyzed	Analyst (Initials)	Cr +6 (mg/L)	Conductivity (µs/cm)
199-K-130	B1JD71	I06-041	6/5/2006	12:42	FMH	Water	6/5/2006	15:30	DJA	0.077	311

Logbook: HNF-N-296 6 Page 102

6/13/2006

Location	HEIS Number	SAF	Date Collected	Time Collected	Sampler (Initials)	Sample Media	Date Analyzed	Time Analyzed	Analyst (Initials)	Cr +6 (mg/L)	Conductivity (µs/cm)
199-K-131	B1JD62	I06-041	6/13/2006	9:19	KJY	Water	6/13/2006	14:50	DJA	0.082	348
199-K-117A	B1JD52	I06-041	6/13/2006	11:03	KJY	Water	6/13/2006	14:50	DJA	0.005	186
199-K-129	B1JD54	I06-041	6/13/2006	11:51	KJY	Water	6/13/2006	14:50	DJA	0.028	228

Analyst(s): D.J. Alexander Date: 6/30/2006

\\ap014\afsfieldsc\cr6data\KR4 Data\cr6_kjun.xls.

84

KR4 Cr+6 Data
SAF I06-041 / June 2006

DJ Alexander / GS / DJAlexander

Hexavalent Chromium Daily Activity Log
Project: KR-4 GW Monitoring / SAF I06-041
Logbook HNF-N-296 6
Date: 06/01/06

DJAlexander 6-8-06

2020	D.J. Alexander arrived on-site at 200W, MO-612 field laboratory. Set up to analyze samples for hexavalent chromium using a HACH DR 2010 spectrophotometer, S/N 980600009425, Method 951, low range hexavalent chromium.
2025	Prepared 0.10 mg/L standard by adding 240 µL of 12.5 mg/L HACH hexavalent chromium standard, lot # A2361, no expiration, to 29.76 mL of deionized water.
2035	Analyzed samples.

Sample #	Well #	SAF #	Concentration (mg/L)	Date Sampled	Time Sampled	Sampler	Conductivity (µS/cm)
Blank	-----	-----	<0.005	-----	-----	-----	-----
0.10 mg/L std.	-----	-----	0.105	-----	-----	-----	-----
B1JD68	199-K-20	I06-041	0.062	06/01/06	09:12	KJY	344
B1JD69	199-K-20	I06-041	0.061	06/01/06	09:12	KJY	344
B1JD64	199-K-18	I06-041	0.150	06/01/06	10:03	KJY	481
0.10 mg/L std.	-----	-----	0.105	-----	-----	-----	-----
Blank	-----	-----	<0.005	-----	-----	-----	-----

DJA JUN 0 8 2006

00000003

D.J. ALEXANDER

JUN 0 8 2006

Reviewed by: TMJohnson / [illegible] 6/11/06

KR4 Cr+6 Data
SAF I06-041
June 2006

DJAlexander/
GS/DJAlexander

Hexavalent Chromium Daily Activity Log
Project: KR-4 GW Monitoring / SAF I06-041
Logbook HNF-N-296 6
Date: 06/05/06

DJAlexander
6-8-06

1500	D.J. Alexander arrived on-site at 200W, MO-612 field laboratory. Set up to analyze samples for hexavalent chromium using a HACH DR 2010 spectrophotometer, S/N 980600009425, Method 951, low range hexavalent chromium.
1510	Prepared 0.10 mg/L standard by adding 240 µL of 12.5 mg/L HACH hexavalent chromium standard, lot # A2361, no expiration, to 29.76 mL of deionized water.
1530	Analyzed sample.

Sample #	Well #	SAF #	Concentration (mg/L)	Date Sampled	Time Sampled	Sampler	Conductivity (µS/cm)
Blank	-----	-----	<0.005	-----	-----	-----	-----
0.10 mg/L std.	-----	-----	0.105	-----	-----	-----	-----
B1JD71	199-K-130	I06-041	0.077	06/05/06	12:42	FMH	311
0.10 mg/L std.	-----	-----	0.104	-----	-----	-----	-----
Blank	-----	-----	<0.005	-----	-----	-----	-----

Bottle did not have evidence tape on it, but I received it directly from the sampler and it appeared to be in unaltered condition.

JUN 08 2006

00000004

D.J. ALEXANDER

JUN 08 2006

Reviewed by: TMJohansen
6/11/06

100-KR-4 Cr+6 Data
June 2006 SAF

DJ Alexander/
GS/DJ Alexander

DJ Alexander
6-14-06

Hexavalent Chromium Daily Activity Log
Project: KR-4 GW Monitoring / SAF I06-041
Logbook HNF-N-296 6
Date: 06/13/06

1350	D.J. Alexander arrived on-site at 200W, MO-612 field laboratory. Set up to analyze samples for hexavalent chromium using a HACH DR 2010 spectrophotometer, S/N 980600009425, Method 951, low range hexavalent chromium.
1440	Prepared 0.10 mg/L standard by adding 240 µL of 12.5 mg/L HACH hexavalent chromium standard, lot # A2361, no expiration, to 29.76 mL of deionized water.
1450	Analyzed samples.

Sample #	Well #	SAF #	Concentration (mg/L)	Date Sampled	Time Sampled	Sampler	Conductivity (µS/cm)
Blank	-----	-----	<0.005	-----	-----	-----	-----
0.10 mg/L std.	-----	-----	0.103	-----	-----	-----	-----
B1JD62	199-K-131	I06-041	0.082	06/13/06	09:19	KJY	348
B1JD52 [1]	199-K-117A	I06-041	0.005	06/13/06	11:03	KJY	186
B1JD54	199-K-129	I06-041	0.028	06/13/06	11:51	KJY	228
0.10 mg/L std.	-----	-----	0.105	-----	-----	-----	-----
Blank	-----	-----	<0.005	-----	-----	-----	-----

[1] Sample bottle had HCl preservative sticker on it. Checked pH of sample prior to analysis and it was indeed less than 2. Analyzed sample anyway, and the result was close to the result for last months sample from 199-K-117A (taken on 5-1-06), which was <0.005 (0.003).

DJA JUN 14 2006

DJ Alexander
D.J. ALEXANDER JUN 14 2006

TM Johansen / TM Johansen
6/16/06

00000005

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I06-041-2

Page 1 of 1

Collector DURATEK K. J. YOUNG	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. I06-041	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100KR4IAM(1/2)-LOI JUNE 2006	DTS- SAWS H 104	Ice Chest No. SAWS 212 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 "W", "S", "I", "A" or "G" 06 SAFs 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
B1JD52 (F)		W	6-13-06	1103	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK K. J. YOUNG			JUN 13 2006 1358	DO Alexander			JUN 13 2006 1358
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., Returned to customer, per lab procedure, used in process): RETURNED TO OU — Disposed By: D.J. ALEXANDER — Date/Time: JUN 13 2006 1505

00000006

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I06-041-4

Page 1 of 1

Collector DURATEK K. J. YOUNG	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I06-041	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100KR4IAM(1/2)-LOI JUNE 2006	DTP - SHWS H 109	**Ice Chest No.** SHWS 212 **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 "W", "S", "I", "A" or "G" 06 SAFs 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
B1JD54 (F)		W	6-13-06	1151	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None

Relinquished By	Received By
Print / Sign: DURATEK K. J. YOUNG — Date/Time: JUN 13 2006 1358	Print / Sign: D J Alexander — Date/Time: JUN 13 2006 1358
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 — Date/Time: JUN 13 2006 / 1505

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PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I06-041-11

Page 1 of 1

Collector DURATEK K. J. YOUNG	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. I06-041	Sampling Origin Hanford Site	Purchase Order/Charge Code RF 6-13-06
Project Title 100KR4IAM(1/2)-LOI, JUNE 2006	DTS - SAWS H 104	Ice Chest No. SAWS 212 Temp.
Shipped To (Lab) Mobile Field Laboratory	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No. ~~SAWS~~
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 "W", "S", "I", "A" or "G" 06 SAFs 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
B1JD62 (F)		W	6-13-06	0919	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK K. J. YOUNG			JUN 13 2006 1358	DJ Alexander	DJ Alexander		JUN 13 2006 1358
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 JUN 13 2006 1505

PNNL

DURATEK

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I06-041-13**

Page 1 of 1

Collector DURATEK J. YOUNG	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I06-041	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100KR4IAM(1/2)-LOI, JUNE 2006	DTS-SHWS-H104	**Ice Chest No.** SML-422 **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 "W", "S", "I", "A" or "G" 06 SAFs 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
B1JD64 (F)		W	6-1-05	1003	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK J. YOUNG			JUN 0 1 2006 1225	DJ Alexander		DJ Alexander	JUN 0 1 2006 1225
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 (Form, Return to customer, per lab procedure, used in process) RETURNED TO OU Disposed By D.J. ALEXANDER DJ Alexander Date/Time JUN 0 1 2006 2050

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PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I06-041-16
		Page 1 of 1

Collector DURATEK K. J. YOUNG	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. I06-041	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100KR4IAM(1/2)-LOI, JUNE 2006	DTS-SAWS-H104	Ice Chest No. SMC-422 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 "W", "S", "I", "A" or "G" 06 SAFs 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
B1JD68 (F)		W	6-1-06	0912	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK K. J. YOUNG			JUN 01 2006 1225	D.J. Alexander		DJ Alexander	JUN 01 2006 1225
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	JUN 01 2006 2050

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I06-041-17

Page 1 of 1

Collector DURATEK K. J. YOUNG	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. I06-041	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100KR4IAM(1/2)-LOI, JUNE 2006	DTS-SHWS-H104	Ice Chest No. SML-422 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 "W", "S", "I", "A" or "G" 06 SAFs 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
B1JD69 (F)		W	6-1-06	0912	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK K. J. YOUNG			1225 JUN 0 1 2006	DJ Alexander		DJ Alexander	1225 JUN 0 1 2006
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 JUN 0 1 2006 2050

0000001

PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I06-041-7
		Page 1 of 1

Collector DURATEK F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I06-041	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100KR4IAM(1/2)-LOI JUNE 2006	DTS-SAWS-H106	**Ice Chest No.** SAWS-325 **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 "W", "S", "I", "A" or "G" 06 SAFs 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
B1JD71 (F)		W	6-5-06	1242	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			JUN 05 2006 1305	DJ Alexander		DJ Alexander	JUN 05 2006 1305
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	JUN 05 2006 1545

00000012