0073655

FIELD SCREENING
FINAL DATA DELIVERABLE COVER SHEET

Date: Monday, February 5, 2007

Sample Authorization Form (SAF) Number: I07-011

SDG Number (assigned by Sample Management): FP0418 DAyres 2/7/07

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): 6

Comments:
ISRM - Hexavalent Chromium – Sulfate - Water

THESE TESTS WERE CONDUCTED USING QC-1

FEB 2007 RECEIVED

Analyst Signature — Date: 2-5-2007

Reviewer's Signature — Date: 2/5/07

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

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

RECEIVED AUG 20 2007 EDMC

On-Site Measurement of Cr +6

ISRM Groundwater

SAF:I07-011

Procedure: GRP-EE-05-1.17

Logbook: HNF-N-296 8 Page 19

1/25/2007

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)	Water Level (m TOC)
199-D2-8	B1L2K0	I07-011	1/25/2007	1220	DPC	Water	1/25/2007	1445	LCP	0.114	483	26.15

Analyst(s): J.D. Mehrer/ L.C. Petersen Date: 2/1/2007

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00000001

On-Site Measurement of SO_4

ISRM Groundwater

SAF:I07-011

Procedure: GRP-EE-05-1.18

Logbook: HNF-N-296 8 Page 33

2/1/2007

Location	HEIS Number	SAF	Date Collected	Time Collected	Sampler (Initials)	Sample Media	Date Analyzed	Time Analyzed	Analyst (Initials)	SO_4 (mg/L)
199-D2-8	B1L2K1*	I07-011	1/25/2007	1220	DPC	Water	2/1/2007	16:15	LCP	90

* 2X dilution

Analyst(s): J.D. Mehrer/ L.C. Petersen Date: 2/2/2007

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ISRM GW - 304

L.C. Petersen
Petersen
GRAM INC

Sulfate Daily Activity Log
Project: ISRM GW Monitoring
SAF I07-011
Logbook HNF-N-296 8
Date: 2/1/07

Petersen
2-2-2007

1535	L.C. Petersen arrived on-site at 200W, MO-612 field laboratory. Set up to analyze samples for sulfate using a HACH DR 2010 spectrophotometer, S/N 980600009425, Method 952, sulfate.
1550	Prepared 50 mg/L standard by adding 1.5 mL of 1000 mg/L HACH sulfate standard, lot #A1214, no expiration, to 28.50 mL of deionized water.
1615	After pulling standard, blank, and sample fluids into sulfate ampules (#A6324, expiration 9/2011), analyzed undilutedsamples.
1630	Sample was under-range. Diluted 2X by adding 10-mL sample to 10-mL deionized water. Re-analyzed sample.

Sample #	Well #	SAF #	Concentration (mg/L)	Date Sampled	Time Sampled	Sampler
Blank	---	---	0	---	---	---
50 mg/L std.	---	---	46	---	---	---
B1L2K1*	199-D2-8	I07-011	90	1/25/07	1220	DPC
50 mg/L std.	---	---	47	---	---	---
Blank	---	---	0	---	---	---

* 2X Dilution

2-2-2007

FEB 05 2007

Reviewed
By: M.A. Baechler

M.A. Baechler

L.C. Petersen
Petersen
2-2-2007

ISRM GW Cr^{+6}

L.C. Petersen
Petersen
GRAM INC

Hexavalent Chromium Daily Activity Log
Project: 100-ISRM GW Monitoring
SAF I07-011
Logbook HNF-N-296 8
Date: 1/25/07

Petersen
1-31-2007

1412	L.C. Petersen 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.
1425	Prepared 0.10 mg/L standard by adding 240 µL of 12.5 mg/L HACH hexavalent chromium standard, lot # A5354, exp. December 2010, to 29.76 mL of deionized water.
1445	After pulling standard, blank, and sample fluids into hexavalent chromium ampules (lot # A6215, exp. May 2009), analyzed undiluted sample.

Sample #	Well #	SAF #	Concentration (mg/L)	Date Sampled	Time Sampled	Sampler	Conductivity (µs/cm)	Water Depth-m(TOC)
Blank	-----	-----	0.002	-----	-----	-----	-----	-----
0.10 mg/L std.	-----	-----	0.092	-----	-----	-----	-----	-----
B1L2K0	199-D2-8	I07-011	0.114	1/25/07	1220	DPC	483	26.150
0.10 mg/L std.	-----	-----	0.093	-----	-----	-----	-----	-----
Blank	-----	-----	0.002	-----	-----	-----	-----	-----

1-31-07

L.C. Petersen
Petersen
1-31-2007

Reviewed JAN 3 1 2007
By: M.A. Baechler
M.A. Baechler

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PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I07-011-8

Page 1 of 1

Collector Fluor Hanford D. P. CONNOLLY	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I07-011	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title ISRM-LOI, NOVEMBER 2006	HNF-N-506-1	**Ice Chest No.** 118 **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
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L2K0 (F)		W	12507	1220	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
B1L2K1		W	↓	↓	1x40-mL aGs*	COLOR_TK_FLD: Sulfate (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. P. CONNOLLY			JAN 25 2007 1420	LC Petersen			JAN 25 2007 1420
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 L.C. PETERSEN Disposed By Petersen Date/Time FEB 1 2007 1620

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