

RECEIVED JUNE 3, 2008

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 WSCF Analytical Lab
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FLUOR**Memorandum**

M4W41-SLF-08-590

To: H. Hampt E6-35 Date: June 3, 2008

From: S. L. Fitzgerald, Manager WSCF Analytical Lab *Markus Franke for SLF*

cc: w/Attachments

T. F. Dale	S3-30	J. E. Trechter	S3-30
A. J. Kopriva	S3-30	S. J. Trent	E6-35
H. K. Meznarich	S3-30	File/LB	
P. D. Mix	S3-30		

Subject: FINAL RESULTS FOR SAMPLE DELIVERY GROUP WSCF20081060 – SAF NUMBER F08-057

Reference: (1) Groundwater Protection Program-Letter of Instruction, FH-EIS-2003-MEM-001, October 31, 2002

(2) HNF-SD-CD-QAPP-017, Rev. 8, Waste Sampling & Characterization Facility Quality Assurance Plan

This letter contains the following information for sample delivery group WSCF20081060:

- Cover Sheet (Attachment 1)
- Narrative (Attachment 2)
- Analytical Results (Attachment 3)
- Sample Receipt Information (Attachment 4)

SLF/grf

Attachments 4

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ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20081060
Data Deliverable Date: 28-may-2008
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
F08-057	B1V257 T	W08GR01340	WATER

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ATTACHMENT 2

NARRATIVE

Consisting of 2 pages
Including cover page

Introduction

One (1) S&GRP sample was received at the WSCF Laboratory on May 23, 2008. Sample was analyzed for the analyte indicated on the attached copy of the chain of custody (COC) form in accordance with the *Groundwater Remediation Program – Letter of Instruction*, referenced in the cover letter.

The narrative (Attachment 2) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 3) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information as applicable. Copies of the chain of custody and sample receipt documentation are included as Attachment 4.

It should be noted that the attached chain of custody was stamped “iced” and initialed by the WSCF Laboratory Sample Custodian during sample receiving, indicating the presence of ice in the sample container.

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report*, page 9, for a complete listing of approved analytical methods.

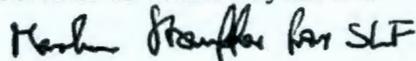
Inorganic Comments

Hexavalent Chromium – The holding time requirement for this analysis was met. A Sample Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per the GRP Letter of Instruction. See page 11 for QC details.

- Matrix Spike, Matrix Spike Duplicate and Sample Duplicate analyzed on sample B1TT63 (SDG 20081042, SAF F08-077).

All QC values were within the acceptance range.

I certify that this data package is in compliance with the LOI, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager and Client Services as verified by the following signatures.



Scot L. Fitzgerald
WSCF Analytical Laboratory Manager



Andrew J. Kopriva
WSCF Client Services

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ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 6 pages
Including cover page

WSCF
ANALYTICAL RESULTS REPORT

for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical: Markus Stauffer Markus Stauffer 6/3/08
Client Services: Andrew J. Kopriva Andrew J. Kopriva 6-3-08

All results are reported on an "as received" basis unless otherwise noted in the comment section.

This information is intended for the use of the addressee only. If the reader of this report is not the intended recipient or is not authorized by the recipient to receive the report, you are hereby notified that any dissemination, distribution or copying of this report is strictly prohibited. If you have received this report in error, please notify WSCF Laboratory immediately by telephone at (509) 373-7020 or (509) 531-8004. Information designation of this report is the responsibility of the customer.

Contract#: FH-EIS-2003-MEM-001
Report#: WSCF20081060
Report Date: 2-jun-2008
Report WGPP/ver. 5.2
Groundwater Remediation Program

W13q Worklist/Batch/QC Report for Group# WSCF20081060

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
36464	2	36876	41233	BLANK		Hexavalent chromium
36464	3	36876	41233	LCS		Hexavalent chromium
36464	5	36876	41233	DUP	W08GR01319	Hexavalent chromium
36464	6	36876	41233	MS	W08GR01319	Hexavalent chromium
36464	7	36876	41233	MSD	W08GR01319	Hexavalent chromium
36464	7	36876	41233	SPK-RPD	W08GR01319	Hexavalent chromium
36464	9	36876	41233	DUP	W08GR01340	Hexavalent chromium
36464	10	36876	41233	MS	W08GR01340	Hexavalent chromium
36464	11	36876	41233	MSD	W08GR01340	Hexavalent chromium
36464	8	36876	41233	SAMPLE	W08GR01340	Hexavalent chromium
36464	11	36876	41233	SPK-RPD	W08GR01340	Hexavalent chromium

WSCF METHOD REFERENCES REPORT

Department: Inorganic

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory or industry methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though the WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-265-403	LA-265-403: Hexavalent Chromium analysis by Spectrophotometer
EPA SW-846 7196A	HEXAVALENT CHROMIUM
HEIS 7196_CR6	Hexavalent Chromium

Note: A complete list of WSCF analytical procedures and referenced regulatory or industry methods is available online at <http://www2.rl.gov/phmc/as-dol>.

Report Date: 2-jun-2008
Report#: WSCF20081060
Report WGPPM/5.2

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-057
Sample # W08GR01340
Client ID: B1V257

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081060
Department: Inorganic
Sampled: 05/23/08
Received: 05/23/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Hexavalent Chromium											
Hexavalent Chromium	18540-29-9	LA-265-403		0.0601	mg/L			1.00	2.0e-03		05/23/08

MDL = Minimum Detection Limit
RQ = Result Qualifier
TP Err = Total Propagated Error
DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2
Groundwater Remediation Program

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081060
 Matrix: WATER
 Test: Hexavalent chromium

Sample Date: 05/22/08
 Receive Date: 05/22/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR01319											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Hexavalent chromium	18540-29-9	<0.002		RPD			n/a	15.000	U	05/23/08
MS	Hexavalent chromium	18540-29-9	0.0550	102.612	% Recov	85.000	115.000				05/23/08
MSD	Hexavalent chromium	18540-29-9	0.0563	105.037	% Recov	85.000	115.000				05/23/08
SPK-RPD	Hexavalent chromium	18540-29-9	105.037		RPD			2.336	20.000		05/23/08
Lab ID: W08GR01340											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Hexavalent chromium	18540-29-9	0.0626		RPD			4.075	15.000		05/23/08
MS	Hexavalent chromium	18540-29-9	0.0517	96.455	% Recov	85.000	115.000				05/23/08
MSD	Hexavalent chromium	18540-29-9	0.0505	94.216	% Recov	85.000	115.000				05/23/08
SPK-RPD	Hexavalent chromium	18540-29-9	94.216		RPD			2.349	20.000		05/23/08
BATCH QC											
BLANK	Hexavalent chromium	18540-29-9	<0.002	n/a	mg/L	0.000	2.000			U	05/23/08
LCS	Hexavalent chromium	18540-29-9	0.0512	101.587	% Recov	80.000	120.000				05/23/08

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ATTACHMENT 4

SAMPLE RECEIPT INFORMATION

Consisting of 3 pages
Including cover page

Waste Sampling and Characterization Facility
P.O. BOX 1970 S3-30, Richland, WA 99352
PHONE: (509) 373-7004/FAX: (509) 373-7134

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 122577/ES10
Group#: 20081060
Project#: F08-057
Proj Mgr: Steve Trent E6-35
Phone: 373-5869

The following samples were received from you on 05/23/08. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
W08GR01340	B1V257	TRENT CR+6	Water	05/23/08

Test Acronym Description

Test Acronym	Description
CR+6	Hexavalent chromium

COLLECTOR
NCO Sampler *Rosane, McIntyre, Helms*

COMPANY CONTACT
TRENT, SJ

TELEPHONE NO.
373-5869

PROJECT COORDINATOR
WIDRIG, DL

PRICE CODE 7A

DATA
TURNAROUND
3 Days / 15
Days

SAMPLING LOCATION
C5936, I-After Develop

PROJECT DESIGNATION
GW Monitoring Wells at 100-HR-3 (100-D OU) - Water

SAF NO.
FOB-057

AIR QUALITY

ICE CHEST NO.
N/A

FIELD LOGBOOK NO. ACTUAL SAMPLE DEPTH

COA
122577ES10

METHOD OF SHIPMENT
GOVERNMENT VEHICLE

SHIPPED TO
Waste Sampling & Characterization

OFFSITE PROPERTY NO.
N/A

BILL OF LADING/AIR BILL NO.
N/A

MATRIX* POSSIBLE SAMPLE HAZARDS/ REMARKS
A=Air Contains Radioactive Material at concentrations
DL=Drum that are not regulated for transportation per 49
Liquids CFR but are not releasable per DOE Order
DS=Drum 5400.5 (1990/1993)
Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

PRESERVATION Cool~4C

TYPE OF CONTAINER aG

NO. OF CONTAINER(S) 1

VOLUME 500mL

SPECIAL HANDLING AND/OR STORAGE

SAMPLE ANALYSIS
Chromium Hex -
7196
(Hexavalent
Chromium)

ICED

20081060
SAMPLE NO.

MATRIX*

SAMPLE DATE SAMPLE TIME

B1V257 W086RD1340 WATER

5-23 08 1220 ✓

LOT

029918
028946

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM DATE/TIME RECEIVED BY/STORED IN DATE/TIME
Larry Rosane Larry Rosane 5-23 08/1245 CA Hudson 5/23 08/1245

RELINQUISHED BY/REMOVED FROM DATE/TIME RECEIVED BY/STORED IN DATE/TIME

LABORATORY SECTION RECEIVED BY TITLE DATE/TIME

FINAL SAMPLE DISPOSITION DISPOSAL METHOD DISPOSED BY DATE/TIME