

RECEIVED JUNE 4, 2008

Fluor Hanford
 WSCF Analytical Lab
 P.O. Box 1000
 Richland, WA 99352
 Telephone 373-7495
 Telefax 372-0456

FLUOR**Memorandum**

M4W41-SLF-08-598

To: H. Hampt E6-35 Date: June 4, 2008

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

cc: w/Attachments

T. F. Dale	S3-30	P. D. Mix	S3-30
D. Felmy (PNNL)	K6-75	J. E. Trechter	S3-30
A. J. Kopriva	S3-30	S. J. Trent	E6-35
H. K. Meznarich	S3-30	File/LB	

Subject: FINAL RESULTS FOR SAMPLE DELIVERY GROUP WSCF20081020

Reference: 1) Letter of Instruction for Analytical Services for the Groundwater Performance Assessment Project and Analytical Laboratory Transition Plan, FH-0602422, September 19, 2006

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

This transmittal contains the following information for sample delivery group WSCF20081020:

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

SLF/grf

Attachments 4

RECEIVED
 JUL 28 2008

EDMC

M4W41-SLF-08-598

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20081020
Data Deliverable Date: 02-jul-2008
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
X08-041	B1VCP8	W08P002489	WATER
	B1VCP9	W08P002490	WATER
	B1VCR0	W08P002491	WATER
	B1VCR1	W08P002492	WATER

M4W41-SLF-08-598

ATTACHMENT 2

NARRATIVE

Consisting of 2 pages
Including cover page

Introduction

Four groundwater samples were received at the WSCF Laboratory on May 19, 2008. Samples were analyzed for the analytes 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" 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

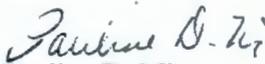
Total Organic Carbon – The hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank and Method Spike were analyzed with this delivery group per the GRP Letter of Instruction. See page 14 for QC details. Analytical Note(s):

- Matrix Spikes and Matrix Spike Duplicates were analyzed on samples B1V9D0 and B1V8T2 (SDG# 20081015).

All QC controls are within the established limits.

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


Pauline D. Mix
WSCF Client Services

M4W41-SLF-08-598

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 9 pages
Including cover page

WSCF
ANALYTICAL RESULTS REPORT

for

GPAP
Richland, WA 99352

Attention: Steve Trent E6-35

Analytical: Markus Stauffer Markus Stauffer 6/4/08

Client Services: SP7i P.D. Miv 6/3/2008

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.

Report#: WSCF20081020
Report Date: 3-jun-2008
Report WGPP/ver. 5.2
GPAP

Page 1

Department: Inorganic

W13q Worklist/Batch/QC Report for Group# WSCF20081020

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
36502	1	36916	41259	BLANK		Total Organic Carbon
36502	2	36916	41259	METHSPIKE		Total Organic Carbon
36502	3	36916	41259	SPK-RSD		Total Organic Carbon
36502	4	36916	41259	MS	W08P002433	Total Organic Carbon
36502	5	36916	41259	MSD	W08P002433	Total Organic Carbon
36502	5	36916	41259	SPK-RPD	W08P002433	Total Organic Carbon
36502	17	36916	41259	MS	W08P002441	Total Organic Carbon
36502	18	36916	41259	MSD	W08P002441	Total Organic Carbon
36502	18	36916	41259	SPK-RPD	W08P002441	Total Organic Carbon
36502	24	36916	41259	SAMPLE	W08P002489	Total Organic Carbon
36502	25	36916	41259	SAMPLE	W08P002490	Total Organic Carbon
36502	26	36916	41259	SAMPLE	W08P002491	Total Organic Carbon
36502	27	36916	41259	SAMPLE	W08P002492	Total Organic Carbon

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-344-406	LA-344-406: TOTAL ORGANIC CARBON (TOC) BASED ON SW-846
EPA SW-846 9060	TOTAL ORGANIC CARBON
HEIS 9060_TOC	Total Organic Carbon

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: 3-jun-2008
Report#: WSCF20081020
Report WGPPM/5.2

Page 1

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35

SAF Number: X08-041

Sample # W08P002489

Client ID: B1VCP8

GPP-PNNL TRENT
WSCF

Matrix: WATER

Group #: WSCF20081020

Department: Inorganic

Sampled: 05/19/08

Received: 05/19/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Total organic carbon											
Total organic carbon	TOC	LA-344-406		0.389	mg/L			1.00	0.30		05/22/08

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

GPAP

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35

SAF Number: X08-041

Sample # W08P002490

Client ID: B1VCP9

GPP-PNNL TRENT
WSCF

Matrix: WATER

Group #: WSCF20081020

Department: Inorganic

Sampled: 05/19/08

Received: 05/19/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Total organic carbon											
Total organic carbon	TOC	LA-344-406		0.385	mg/L			1.00	0.30		05/22/08

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

GPAP

11 of 17

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35

SAF Number: X08-041

Sample # W08P002491

Client ID: B1VCRO

GPP-PNNL TRENT
WSCF

Matrix: WATER

Group #: WSCF20081020

Department: Inorganic

Sampled: 05/19/08

Received: 05/19/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Total organic carbon											
Total organic carbon	TOC	LA-344-406		0.440	mg/L			1.00	0.30		05/22/08

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

GPAP

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35

SAF Number: X08-041

Sample # W08P002492

Client ID: B1VCR1

GPP-PNNL TRENT
WSCF

Matrix: WATER

Group #: WSCF20081020

Department: Inorganic

Sampled: 05/19/08

Received: 05/19/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Total organic carbon											
Total organic carbon	TOC	LA-344-406		0.441	mg/L			1.00	0.30		05/22/08

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

GPAP

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081020
 Matrix: WATER
 Test: Total Organic Carbon

Sample Date: 05/18/08
 Receive Date: 05/19/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08P002433											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Total Organic Carbon	TOC	3.911	97.775	% Recov	75.000	125.000				05/22/08
MSD	Total Organic Carbon	TOC	3.912	97.800	% Recov	75.000	125.000				05/22/08
SPK-RPD	Total Organic Carbon	TOC	97.800		RPD			0.026	20.000		05/22/08
Lab ID: W08P002441											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Total Organic Carbon	TOC	3.992	99.800	% Recov	75.000	125.000				05/22/08
MSD	Total Organic Carbon	TOC	4.028	100.700	% Recov	75.000	125.000				05/22/08
SPK-RPD	Total Organic Carbon	TOC	100.700		RPD			0.898	20.000		05/22/08
BATCH QC											
BLANK	Total Organic Carbon	TOC	0.000	0.000	mg/L	0.000	300.000				05/22/08
METHSPIKE	Total Organic Carbon	TOC	1.935	96.750	% Recov	80.000	120.000				05/22/08
SPK-RSD	Total Organic Carbon	TOC	0.5525	0.552	% RSD	0.000	20.000				05/22/08

M4W41-SLF-08-598

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

GPAP

Richland, WA 99352
Attn: Steve Trent E6-35

Customer Code: PNNL-GPP
PO#: 122543
Group#: 20081020

The following samples were received from you on 05/19/08. 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
W08P002489	B1VCP8	GPP-PNNL TOC-30	TRENT Water	05/19/08
W08P002490	B1VCP9	GPP-PNNL TOC-30	TRENT Water	05/19/08
W08P002491	B1VCR0	GPP-PNNL TOC-30	TRENT Water	05/19/08
W08P002492	B1VCR1	GPP-PNNL TOC-30	TRENT Water	05/19/08

Test Acronym Description

Test Acronym	Description
TOC-30	Total Organic Carbon

