

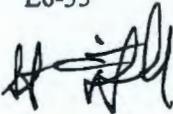
RECEIVED OCTOBER 10, 2008

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 WSCF Analytical Lab
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 Richland, WA 99352
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FLUOR**Memorandum**

M4W41-SLF-08-1128

To: H. Hampt E6-35 Date: October 9, 2008

From: S. L. Fitzgerald, Manager
 WSCF Analytical Lab 

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 WSCF20082118

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. 9, Waste Sampling & Characterization Facility Quality Assurance Plan

This transmittal contains the following information for sample delivery group WSCF20082118:

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

SLF/cmj

Attachments 4

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ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20082118
Data Deliverable Date: 21-oct-2008
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
I09-001	B1X539	W08P004590	WATER
	B1X541	W08P004587	WATER
	B1X559	W08P004594	WATER
	B1X560	W08P004592	WATER
	B1X563	W08P004593	WATER
	B1X565	W08P004596	WATER
	B1X585	W08P004595	WATER
	B1X595	W08P004589	WATER
	B1X5L7	W08P004599	WATER
	B1X5L8	W08P004600	WATER
	B1X5L9	W08P004597	WATER
	B1X5M0	W08P004598	WATER
	I09-002	B1X5X9	W08P004570
B1X5Y0		W08P004572	WATER
B1X5Y1		W08P004573	WATER
B1X668		W08P004571	WATER
I09-004	B1X6B8	W08P004591	WATER

M4W41-SLF-08-1128

ATTACHMENT 2

NARRATIVE

Consisting of 2 pages
Including cover page

Introduction

Seventeen (17) groundwater samples were received at the WSCF Laboratory on October 8, 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.

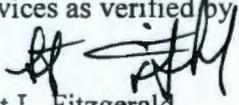
Inorganic Comments

Hexavalent Chromium – The hold time requirement for this analysis was met. A Duplicate, Matrix Spike, Blank and Laboratory Control Sample were analyzed with this delivery group per the GRP Letter of Instruction. See page 27 for QC details. Analytical Note(s):

- Duplicates, Matrix Spikes and Matrix Spike Duplicates were analyzed on samples B1X5Y1 of this SDG, B1X5M0 of this SDG and B1X669 (SDG# 20082121).
- Sample results were D flagged if dilution(s) were required.

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-08-1128

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 22 pages
Including cover page

WSCF
ANALYTICAL RESULTS REPORT

for

GPAP
Richland, WA 99352

Attention: Steve Trent E6-35

Analytical:

~~Handwritten signature~~ S. Fitzgerald 10/9/08

Client Services:

EDW P.D. Mir 10/9/2008

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#: WSCF20082118
Report Date: 8-oct-2008
Report WGPP/ver. 5.2
GPAP

Department: Inorganic

W13q Worklist/Batch/QC Report for Group# WSCF20082118

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
38318	2	38739	43187	BLANK		Hexavalent chromium
38318	15	38739	43187	BLANK		Hexavalent chromium
38318	29	38739	43187	BLANK		Hexavalent chromium
38318	33	38739	43187	BLANK		Hexavalent chromium
38318	3	38739	43187	LCS		Hexavalent chromium
38318	4	38739	43187	SAMPLE	W08P004570	Hexavalent chromium
38318	5	38739	43187	SAMPLE	W08P004571	Hexavalent chromium
38318	6	38739	43187	SAMPLE	W08P004572	Hexavalent chromium
38318	8	38739	43187	DUP	W08P004573	Hexavalent chromium
38318	9	38739	43187	MS	W08P004573	Hexavalent chromium
38318	7	38739	43187	SAMPLE	W08P004573	Hexavalent chromium
38318	10	38739	43187	SAMPLE	W08P004587	Hexavalent chromium
38318	11	38739	43187	SAMPLE	W08P004589	Hexavalent chromium
38318	12	38739	43187	SAMPLE	W08P004590	Hexavalent chromium
38318	13	38739	43187	SAMPLE	W08P004591	Hexavalent chromium
38318	14	38739	43187	SAMPLE	W08P004592	Hexavalent chromium
38318	16	38739	43187	SAMPLE	W08P004593	Hexavalent chromium
38318	17	38739	43187	SAMPLE	W08P004594	Hexavalent chromium
38318	18	38739	43187	SAMPLE	W08P004595	Hexavalent chromium
38318	19	38739	43187	SAMPLE	W08P004596	Hexavalent chromium
38318	20	38739	43187	SAMPLE	W08P004597	Hexavalent chromium
38318	23	38739	43187	DUP	W08P004598	Hexavalent chromium
38318	24	38739	43187	MS	W08P004598	Hexavalent chromium
38318	21	38739	43187	SAMPLE	W08P004598	Hexavalent chromium
38318	25	38739	43187	SAMPLE	W08P004599	Hexavalent chromium
38318	26	38739	43187	SAMPLE	W08P004600	Hexavalent chromium
38318	31	38739	43187	DUP	W08P004612	Hexavalent chromium
38318	32	38739	43187	MS	W08P004612	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: 8-oct-2008
Report#: WSCF20082118
Report WGPPM/5.2

Page 1

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35

SAF Number: I09-002

Sample # W08P004570

Client ID: B1X5X9

PNNL-GPP
WSCF

Matrix: WATER

Group #: WSCF20082118

Department: Inorganic

Sampled: 10/06/08

Received: 10/06/08

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		4.80e-03	mg/L			1.00	2.0e-03		10/06/08

MDL=Minimum Detection Limit

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria(inorg)

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

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35

SAF Number: I09-002

Sample # W08P004571

Client ID: B1X668 PNNL-GPP
WSCF

Matrix: WATER

Group #: WSCF20082118

Department: Inorganic

Sampled: 10/06/08

Received: 10/06/08

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		0.0830	mg/L			1.00	2.0e-03		10/06/08

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria(inorg)

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

Report WGPP/ver. 5.2

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35

SAF Number: I09-002

Sample # W08P004572

Client ID: B1X5Y0 PNNL-GPP
WSCF

Matrix: WATER

Group #: WSCF20082118

Department: Inorganic

Sampled: 10/06/08

Received: 10/06/08

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		0.172	mg/L			1.00	2.0e-03		10/08/08

MDL = Minimum Detection Limit

D - Analyte was identified at a secondary dilution factor (inorg)

U - Analyzed for but not detected above limiting criteria (inorg)

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

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Report WGPP/ver. 5.2

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35

SAF Number: I09-002

Sample # W08P004573

Client ID: B1X5Y1 PNNL-GPP
WSCF

Matrix: WATER

Group #: WSCF20082118

Department: Inorganic

Sampled: 10/06/08

Received: 10/06/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Hexavalent Chromium	18540-29-9	LA-265-403	U	< 2.00e-03	mg/L			1.00	2.0e-03		10/06/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria(inorg)

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Report WGPP/ver. 5.2

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35

SAF Number: I09-001

Sample # W08P004587

Client ID: B1X541 PNNL-GPP
WSCF

Matrix: WATER

Group #: WSCF20082118

Department: Inorganic

Sampled: 10/06/08

Received: 10/06/08

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		0.254	mg/L			1.00	2.0e-03		10/06/08

MDL = Minimum Detection Limit

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria(inorg)

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

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Report WGPP/ver. 5.2

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35

SAF Number: I09-001

Sample # W08P004589

Client ID: B1X595 PNNL-GPP
WSCF

Matrix: WATER

Group #: WSCF20082118

Department: Inorganic

Sampled: 10/06/08

Received: 10/06/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Hexavalent Chromium											
Hexavalent Chromium	18540-29-9	LA-285-403		0.222	mg/L			1.00	2.0e-03		10/06/08

MDL = Minimum Detection Limit

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria(inorg)

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

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Report WGPP/ver. 5.2

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35

SAF Number: I09-001

Sample # W08P004590

Client ID: B1X539 PNNL-GPP
WSCF

Matrix: WATER

Group #: WSCF20082118

Department: Inorganic

Sampled: 10/06/08

Received: 10/06/08

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		5.00e-03	mg/L			1.00	2.0e-03		10/06/08

MDL=Minimum Detection Limit

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria(inorg)

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

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35
SAF Number: I09-004
Sample # W08P004591
Client ID: B1X6B8 PNNL-GPP
 WSCF

Matrix: WATER

Group #: WSCF20082118
Department: Inorganic
Sampled: 10/06/08
Received: 10/06/08

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	D	1.33	mg/L			10.00	0.020		10/06/08

MDL=Minimum Detection Limit

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria(inorg)

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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Report WGPP/ver. 5.2

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35
SAF Number: I09-001
Sample # W08P004592
Client ID: B1X560 PNNL-GPP
 WSCF

Matrix: WATER

Group #: WSCF20082118
Department: Inorganic
Sampled: 10/06/08
Received: 10/06/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Hexavalent Chromium											
Hexavalent Chromium	18540-29-9	LA-285-403		0.376	mg/L			1.00	2.0e-03		10/06/08

MDL=Minimum Detection Limit

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria(inorg)

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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Report WGPP/ver. 5.2

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35

SAF Number: I09-001

Sample # W08P004593

Client ID: B1X563 PNNL-GPP
WSCF

Matrix: WATER

Group #: WSCF20082118

Department: Inorganic

Sampled: 10/06/08

Received: 10/06/08

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		0.376	mg/L			1.00	2.0e-03		10/06/08

MDL=Minimum Detection Limit

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria(inorg)

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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+ - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35
SAF Number: I09-001
Sample # W08P004594
Client ID: B1X559 PNNL-GPP
 WSCF

Matrix: WATER

Group #: WSCF20082118
Department: Inorganic
Sampled: 10/06/08
Received: 10/06/08

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		0.376	mg/L			1.00	2.0e-03		10/06/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria(inorg)

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Report WGPP/ver. 5.2

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35

SAF Number: I09-001

Sample # W08P004595

Client ID: B1X585 PNNL-GPP
WSCF

Matrix: WATER

Group #: WSCF20082118

Department: Inorganic

Sampled: 10/06/08

Received: 10/06/08

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		0.0489	mg/L			1.00	2.0e-03		10/06/08

MDL=Minimum Detection Limit

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria(inorg)

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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Report WGPP/ver. 5.2

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35

SAF Number: I09-001

Sample # W08P004596

Client ID: B1X565 PNNL-GPP
WSCF

Matrix: WATER

Group #: WSCF20082118

Department: Inorganic

Sampled: 10/06/08

Received: 10/06/08

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	D	5.44	mg/L			20.00	0.040		10/06/08

MDL=Minimum Detection Limit

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria(inorg)

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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Report WGPP/ver. 5.2

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35

SAF Number: I09-001

Sample # W08P004597

Client ID: B1X5L9 PNNL-GPP
WSCF

Matrix: WATER

Group #: WSCF20082118

Department: Inorganic

Sampled: 10/06/08

Received: 10/06/08

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		0.173	mg/L			1.00	2.0e-03		10/06/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria(inorg)

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Report WGPP/ver. 5.2

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35
SAF Number: I09-001
Sample # W08P004598
Client ID: B1X5M0 PNNL-GPP
 WSCF

Matrix: WATER

Group #: WSCF20082118
Department: Inorganic
Sampled: 10/06/08
Received: 10/06/08

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	U	< 2.00e-03	mg/L			1.00	2.0e-03		10/06/08

MDL=Minimum Detection Limit

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria(inorg)

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

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35

SAF Number: I09-001

Sample # W08P004599

Client ID: B1X5L7 PNNL-GPP
WSCF

Matrix: WATER

Group #: WSCF20082118

Department: Inorganic

Sampled: 10/06/08

Received: 10/06/08

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		0.288	mg/L			1.00	2.0e-03		10/06/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria(inorg)

* - Indicates results that have NOT been validated;

+ - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35

SAF Number: I09-001

Sample # W08P004600

Client ID: B1X5L8 PNNL-GPP
WSCF

Matrix: WATER

Group #: WSCF20082118

Department: Inorganic

Sampled: 10/06/08

Received: 10/06/08

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		0.288	mg/L			1.00	2.0e-03		10/06/08

MDL = Minimum Detection Limit

D - Analyte was identified at a secondary dilution factor (inorg)

U - Analyzed for but not detected above limiting criteria (inorg)

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

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Report WGPP/ver. 5.2

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WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20082118
 Matrix: WATER
 Test: Hexavalent chromium

Sample Date: 10/06/08
 Receive Date: 10/06/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08P004573											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Hexavalent chromium	18540-29-9	<0.002		RPD			n/a	15.000	U	10/06/08
MS	Hexavalent chromium	18540-29-9	0.0395	98.750	% Recov	85.000	115.000				10/06/08
Lab ID: W08P004598											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Hexavalent chromium	18540-29-9	<0.002		RPD			n/a	15.000	U	10/06/08
MS	Hexavalent chromium	18540-29-9	0.0393	98.250	% Recov	85.000	115.000				10/06/08
Lab ID: W08P004612											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Hexavalent chromium	18540-29-9	<0.002		RPD			n/a	15.000	U	10/06/08
MS	Hexavalent chromium	18540-29-9	0.0401	100.250	% Recov	85.000	115.000				10/06/08
BATCH QC											
BLANK	Hexavalent chromium	18540-29-9	<0.002	n/a	mg/L	0.000	2.000			U	10/06/08
BLANK	Hexavalent chromium	18540-29-9	<0.002	n/a	mg/L	0.000	2.000			U	10/06/08
BLANK	Hexavalent chromium	18540-29-9	<0.002	n/a	mg/L	0.000	2.000			U	10/06/08
BLANK	Hexavalent chromium	18540-29-9	<0.002	n/a	mg/L	0.000	2.000			U	10/06/08
LCS	Hexavalent chromium	18540-29-9	0.0506	101.200	% Recov	80.000	120.000				10/06/08

M4W41-SLF-08-1128

ATTACHMENT 4

SAMPLE RECEIPT INFORMATION

Consisting of 20 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

File

ACKNOWLEDGMENT OF SAMPLES RECEIVED

10/07/08

tel



GPAP

Richland, WA 99352
Attn: Steve Trent E6-35

Customer Code: PNNL-GPP
PO#: 122543
Group#: 20082118

The following samples were received from you on 10/06/08. 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
W08P004570	B1X5X9	PNNL-GPP CR+6	Water	10/06/08
W08P004571	B1X668	PNNL-GPP CR+6	Water	10/06/08
W08P004572	B1X5Y0	PNNL-GPP CR+6	Water	10/06/08
W08P004573	B1X5Y1	PNNL-GPP CR+6	Water	10/06/08
W08P004587	B1X541	PNNL-GPP CR+6	Water	10/06/08
W08P004589	B1X595	PNNL-GPP CR+6	Water	10/06/08
W08P004590	B1X539	PNNL-GPP CR+6	Water	10/06/08
W08P004591	B1X6B8	PNNL-GPP CR+6	Water	10/06/08
W08P004592	B1X560	PNNL-GPP CR+6	Water	10/06/08
W08P004593	B1X563	PNNL-GPP CR+6	Water	10/06/08
W08P004594	B1X559	PNNL-GPP CR+6	Water	10/06/08
W08P004595	B1X585	PNNL-GPP CR+6	Water	10/06/08
W08P004596	B1X565	PNNL-GPP CR+6	Water	10/06/08
W08P004597	B1X5L9	PNNL-GPP CR+6	Water	10/06/08
W08P004598	B1X5M0	PNNL-GPP CR+6	Water	10/06/08

GPAP

Richland, WA 99352
Attn: Steve Trent E6-35

Customer Code: PNNL-GPP
PO#: 122543
Group#: 20082118

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
W08P004599	B1X5L7	PNNL-GPP CR+6	Water	10/06/08
W08P004600	B1X5L8	PNNL-GPP CR+6	Water	10/06/08

Test Acronym Description

Test Acronym	Description
CR+6	Hexavalent chromium

