RECEIVED OCTOBER 23, 2008 REVSION 1

Fluor Hanford
WSCF Analytical Lab
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FLUOR

Memorandum

M4W41-SLF-08-1171

To: M. A. Neely B6-06 Date: October 23, 2008

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

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: REPLACEMENT PAGE FOR SAMPLE DELIVERY GROUP WSCF20082039

Reference:
(1) Memo, SL Fitzgerald to MA Neely, Final Results for SDG WSCF20082039 (M4W41-SLF-08-1162), dated October 16, 2008

(2) Memorandum of Agreement #MOA-FH-CHPRC-2008, Rev. 0, for the Performance & Payment of Services, dated October 1, 2008

(3) HNF-SD-CD-QAPP-017, Rev. 9, Waste Sampling & Characterization Facility Quality Assurance Plan

A laboratory error was made in reporting the alpha result for sample #B1WRL2. This letter contains corrected replacement page 24 of 41 for sample delivery group WSCF20082039.

Please accept our apology for any inconvenience this may have created. If you have any questions, don't hesitate to call on Pauline Mix, telephone 372-1488, for assistance.

SLF/grf

Attachment
As noted

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JAN 22 2009
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M4W41-SLF-08-1162

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20082039
Data Deliverable Date: 22-oct-2008
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
G08-009	B1WRF8 G	W08P004458	WATER
	B1WRH2 G	W08P004459	WATER
	B1WRH9 G	W08P004460	WATER
	B1WRJ3 G	W08P004461	WATER
	B1WRL2	W08P004457	WATER
I08-085	B1WTJ6	W08P004456	WATER

M4W41-SLF-08-1162

ATTACHMENT 2

NARRATIVE

Consisting of 3 pages
Including cover page

Introduction

Six groundwater samples were received at the WSCF Laboratory on September 22, 2008. Samples were analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Memorandum of Agreement (MOA-FH-CHPRC-2008, Rev.0)*, 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 4) 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 5.

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,* pages 12 through 13, for a complete listing of approved analytical methods.

Inorganic Comments

Anions – Hold time requirements for this analysis were met. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per GRP Letter of Instruction. See pages 20 through 21 for QC details. Analytical Note(s):

- Sample results were D flagged if dilution(s) were required.
- Sample results that were less than the reportable limit, however greater than the method detection limit, were B flagged.

All QC controls are within the established limits.

Total Alkalinity – The hold time requirement for this analysis was met. A Duplicate and Laboratory Control Sample were analyzed with this delivery group per GRP Letter of Instruction. See page 22 for QC details. Analytical Note(s):

- Duplicates were analyzed on samples B1WPV4 (SDG# 20082055, SAF# F08-154) and B1X0V7 (SDG# 20082025).

All QC controls are within the established limits.

Radiochemistry Comments

Rad Chem – There are no hold times associated with WSCF's radiochemical methods. A Duplicate, Matrix Spike, Blank and Laboratory Control Sample were analyzed with this delivery group. See pages 29 through 33 for QC details. Analytical Note(s):

- Gross Alpha/Gross Beta – Duplicates were analyzed on samples B1W275 (SDG# 20082025) and B1WRJ3 of this SDG. In addition, a Duplicate QC for Gross Alpha was also analyzed on sample# B1WTJ6 of this SDG.

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-08-1162

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 27 pages
Including cover page

WSCF
ANALYTICAL RESULTS REPORT

for

GPAP
Richland, WA 99352

Attention: Steve Trent E6-35

Analytical: M. Stauffer M. Stauffer 10/16/08

Client Services: P.D. Miller 10/16/2008

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#: WSCF20082039
Report Date: 16-oct-2008
Report WGPP/ver. 5.2
GPAP

w13qlog v4.2 16-oct-2008 10:00:22

Department: Inorganic

W13q Worklist/Batch/QC Report for Group# WSCF20082039

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
38161	2	38586	43010	BLANK		Anions by Ion Chromatography
38161	16	38586	43010	BLANK		Anions by Ion Chromatography
38161	3	38586	43010	LCS		Anions by Ion Chromatography
38161	8	38586	43010	SAMPLE	W08P004456	Anions by Ion Chromatography
38161	9	38586	43010	SAMPLE	W08P004457	Anions by Ion Chromatography
38161	10	38586	43010	SAMPLE	W08P004458	Anions by Ion Chromatography
38161	11	38586	43010	SAMPLE	W08P004459	Anions by Ion Chromatography
38161	12	38586	43010	SAMPLE	W08P004460	Anions by Ion Chromatography
38161	5	38586	43010	DUP	W08P004461	Anions by Ion Chromatography
38161	6	38586	43010	MS	W08P004461	Anions by Ion Chromatography
38161	7	38586	43010	MSD	W08P004461	Anions by Ion Chromatography
38161	4	38586	43010	SAMPLE	W08P004461	Anions by Ion Chromatography
38161	7	38586	43010	SPK-RPD	W08P004461	Anions by Ion Chromatography
38235	1	38656	43078	LCS		Total Alkalinity as mg/L CaCO3
38235	14	38656	43078	LCS		Total Alkalinity as mg/L CaCO3
38235	25	38656	43078	LCS		Total Alkalinity as mg/L CaCO3
38235	3	38656	43078	DUP	W08GR03862	Total Alkalinity as mg/L CaCO3
38235	7	38656	43078	DUP	W08P004444	Total Alkalinity as mg/L CaCO3
38235	11	38656	43078	SAMPLE	W08P004456	Total Alkalinity as mg/L CaCO3
38235	12	38656	43078	SAMPLE	W08P004458	Total Alkalinity as mg/L CaCO3
38235	13	38656	43078	SAMPLE	W08P004459	Total Alkalinity as mg/L CaCO3
38235	15	38656	43078	SAMPLE	W08P004460	Total Alkalinity as mg/L CaCO3
38235	16	38656	43078	SAMPLE	W08P004461	Total Alkalinity as mg/L CaCO3

w13qlog v4.2 16-oct-2008 10:00:22

Department: Radiochemistry

W13q Worklist/Batch/QC Report for Group# WSCF20082039

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
38148	1	38572	43092	BLANK		Strontium 89/90
38148	2	38572	43092	LCS		Strontium 89/90
38148	3	38572	43092	DUP	W08P004456	Strontium 89/90
38148	4	38572	43092	SAMPLE	W08P004456	Strontium 89/90
38148	5	38572	43092	SURR	W08P004456	Strontium 89/90
38148	6	38572	43092	SAMPLE	W08P004458	Strontium 89/90
38148	7	38572	43092	SURR	W08P004458	Strontium 89/90
38148	8	38572	43092	SAMPLE	W08P004459	Strontium 89/90
38148	9	38572	43092	SURR	W08P004459	Strontium 89/90
38148	10	38572	43092	SAMPLE	W08P004460	Strontium 89/90
38148	11	38572	43092	SURR	W08P004460	Strontium 89/90
38148	12	38572	43092	SAMPLE	W08P004461	Strontium 89/90
38148	13	38572	43092	SURR	W08P004461	Strontium 89/90
38267	1	38688	43210	BLANK		Tritium by Liq Sct column prep
38267	2	38688	43210	LCS		Tritium by Liq Sct column prep
38267	4	38688	43210	DUP	W08P004459	Tritium by Liq Sct column prep
38267	3	38688	43210	MS	W08P004459	Tritium by Liq Sct column prep
38267	5	38688	43210	SAMPLE	W08P004459	Tritium by Liq Sct column prep
38267	6	38688	43210	SAMPLE	W08P004460	Tritium by Liq Sct column prep
38267	7	38688	43210	SAMPLE	W08P004461	Tritium by Liq Sct column prep
38316	1	38737	43224	BLANK		Gamma Energy Analysis-grd H2O
38316	2	38737	43224	LCS		Gamma Energy Analysis-grd H2O
38316	3	38737	43224	DUP	W08P004456	Gamma Energy Analysis-grd H2O
38316	4	38737	43224	SAMPLE	W08P004456	Gamma Energy Analysis-grd H2O
38350	1	38771	43244	BLANK		Gross Alpha on Alpha Plateau
38350	2	38771	43244	LCS		Gross Alpha on Alpha Plateau
38350	3	38771	43244	DUP	W08P004456	Gross Alpha on Alpha Plateau
38350	4	38771	43244	SAMPLE	W08P004456	Gross Alpha on Alpha Plateau
38345	1	38766	43267	BLANK		Gross Alpha/Gross Beta (AB32)
38345	2	38766	43267	LCS		Gross Alpha/Gross Beta (AB32)
38345	3	38766	43267	DUP	W08P004461	Gross Alpha/Gross Beta (AB32)
38345	4	38766	43267	SAMPLE	W08P004461	Gross Alpha/Gross Beta (AB32)
38376	1	38797	43272	BLANK		Gross Alpha on Alpha Plateau
38376	2	38797	43272	LCS		Gross Alpha on Alpha Plateau
38376	3	38797	43272	DUP	W08P004449	Gross Alpha on Alpha Plateau
38376	6	38797	43272	SAMPLE	W08P004457	Gross Alpha on Alpha Plateau
38376	7	38797	43272	SAMPLE	W08P004458	Gross Alpha on Alpha Plateau
38376	8	38797	43272	SAMPLE	W08P004459	Gross Alpha on Alpha Plateau
38376	9	38797	43272	SAMPLE	W08P004460	Gross Alpha on Alpha Plateau
38382	1	38801	43274	BLANK		Gross Alpha on Alpha Plateau
38382	2	38801	43274	LCS		Gross Alpha on Alpha Plateau
38382	3	38801	43274	DUP	W08P004461	Gross Alpha on Alpha Plateau
38382	4	38801	43274	SAMPLE	W08P004461	Gross Alpha on Alpha Plateau
38155	1	38584	43278	BLANK		Tritium by Liq Sct column prep
38155	2	38584	43278	LCS		Tritium by Liq Sct column prep

38155	4	38584	43278	DUP	W08P004430	Tritium by Liq Sct column prep
38155	3	38584	43278	MS	W08P004430	Tritium by Liq Sct column prep
38155	15	38584	43278	SAMPLE	W08P004456	Tritium by Liq Sct column prep
38155	16	38584	43278	SAMPLE	W08P004458	Tritium by Liq Sct column prep
38349	1	38770	43285	BLANK		Gross Alpha/Gross Beta (AB32)
38349	2	38770	43285	LCS		Gross Alpha/Gross Beta (AB32)
38349	3	38770	43285	DUP	W08P004449	Gross Alpha/Gross Beta (AB32)
38349	6	38770	43285	SAMPLE	W08P004457	Gross Alpha/Gross Beta (AB32)
38349	7	38770	43285	SAMPLE	W08P004458	Gross Alpha/Gross Beta (AB32)
38349	8	38770	43285	SAMPLE	W08P004459	Gross Alpha/Gross Beta (AB32)
38349	9	38770	43285	SAMPLE	W08P004460	Gross Alpha/Gross Beta (AB32)

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-531-411	LA-531-411: ALKALINITY (TITRIMETRIC)	
	HEIS 2320B	Alkalinity
	Standard Methods 2320B	Alkalinity
LA-533-410	LA-533-410: ANION ANALYSIS BY ION CHROMATOGRAPHY	
	EPA-600/R-94-111 300.0	DETERMINATION OF INORGANIC ANIONS BY ION CHROMATOGRAPHY
	HEIS 300.0_ANIONS_IC	Determination of Inorganic Anions by Ion Chromatography

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.

WSCF
METHOD REFERENCES REPORT

Department: Radiochemistry

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-508-415 LA-508-415: OPERATION OF THE PROTEAN 2-INCH ALPHA/BETA COUNTING SYSTEM FOR GROSS

HEIS ALPHA_GPC	GROSS ALPHA GPC
HEIS BETA_GPC	GROSS BETA GPC
HEIS SRTOT_SEP_PRECIP_GPC	Strontium 89/90

LA-508-421 LA-508-421: OPERATION OF THE TRI-CARB MODEL 2500TR LIQUID SCINTILLATION ANALYZER

HEIS ALPHA_LSC	A/B Liquid Scintilillation
HEIS BETA_LSC	A/B Liquid Scintilallation
HEIS TC99_3MDSK_LSC	TC99 by Liquid Scintillation
HEIS TRITIUM_EIE_LSC	Tritium Liquid Scintillation

LA-508-481 LA-508-481: GAMMA ENERGY ANALYSIS USING PROCOUNT SOFTWARE

HEIS GAMMA_GS	Gamma Emmision Spectrometry

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.

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35
SAF Number: I08-085
Sample # W08P004456
Client ID: B1WTJ6 GPP-PNNL WSCF TRENT **Matrix:** WATER

Group #: WSCF20082039
Department: Inorganic
Sampled: 09/22/08
Received: 09/22/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.0464	mg/L			2.00	0.046		09/22/08
Chloride	16887-00-6	LA-533-410	D	11.0	mg/L			2.00	0.094		09/22/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0256	mg/L			2.00	0.026		09/22/08
Nitrogen in Nitrate	NO3-N	LA-533-410	D	6.17	mg/L			2.00	0.024		09/22/08
Sulfate	14808-79-8	LA-533-410	D	69.7	mg/L			2.00	0.26		09/22/08
Total Alkalinity as mg/L CaCO3											
Total Alkalinity as mg/L CaCO3	ALKALINITY	LA-531-411		78.0	mg/L			1.00	1.0		09/26/08

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

B - The analyte < the RDL but >= the IDL/MDL (inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
D - Analyte was identified at a secondary dilution factor(inorg)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35
SAF Number: G08-009
Sample # W08P004457
Client ID: B1WRL2 GPP-PNNL WSCF TRENT **Matrix:** WATER

Group #: WSCF20082039
Department: Inorganic
Sampled: 09/22/08
Received: 09/22/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.0464	mg/L			2.00	0.046		09/22/08
Chloride	16887-00-6	LA-533-410	D	41.6	mg/L			10.00	0.47		09/22/08
Nitrogen in Nitrite	NO2-N	LA-533-410	D	0.245	mg/L			2.00	0.026		09/22/08
Nitrogen in Nitrate	NO3-N	LA-533-410	D	3.97	mg/L			2.00	0.024		09/22/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	105	mg/L			10.00	0.61		09/22/08
Sulfate	14808-79-8	LA-533-410	D	21.0	mg/L			2.00	0.26		09/22/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
D - Analyte was identified at a secondary dilution factor(inorg)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35
SAF Number: G08-009
Sample # W08P004458
Client ID: B1WRF8 GPP-PNNL WSCF TRENT **Matrix:** WATER

Group #: WSCF20082039
Department: Inorganic
Sampled: 09/22/08
Received: 09/22/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.0464	mg/L			2.00	0.046		09/22/08
Chloride	16887-00-6	LA-533-410	D	10.2	mg/L			2.00	0.094		09/22/08
Nitrogen in Nitrite	NO2-N	LA-533-410	BD	0.0955	mg/L			2.00	0.026		09/22/08
Nitrogen in Nitrate	NO3-N	LA-533-410	D	8.46	mg/L			2.00	0.024		09/22/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	2.63	mg/L			2.00	0.12		09/22/08
Sulfate	14808-79-8	LA-533-410	D	59.4	mg/L			2.00	0.26		09/22/08
Total Alkalinity as mg/L CaCO3											
Total Alkalinity as mg/L CaCO3	ALKALINITY	LA-531-411		100	mg/L			1.00	1.0		09/26/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
D - Analyte was identified at a secondary dilution factor(inorg)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35
SAF Number: G08-009
Sample # W08P004459
Client ID: B1WRH2 GPP-PNNL WSCF TRENT **Matrix:** WATER

Group #: WSCF20082039
Department: Inorganic
Sampled: 09/22/08
Received: 09/22/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.0464	mg/L			2.00	0.046		09/22/08
Chloride	16887-00-6	LA-533-410	DU	< 0.0938	mg/L			2.00	0.094		09/22/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0256	mg/L			2.00	0.026		09/22/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.0242	mg/L			2.00	0.024		09/22/08
Phosphate (P) by IC	PO4-P	LA-533-410	DU	< 0.121	mg/L			2.00	0.12		09/22/08
Sulfate	14808-79-8	LA-533-410	DU	< 0.264	mg/L			2.00	0.26		09/22/08
Total Alkalinity as mg/L CaCO3											
Total Alkalinity as mg/L CaCO3	ALKALINITY	LA-531-411	U	< 1.00	mg/L			1.00	1.0		09/26/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
D - Analyte was identified at a secondary dilution factor(inorg)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35
SAF Number: G08-009
Sample # W08P004460
Client ID: B1WRH9 GPP-PNNL WSCF TRENT **Matrix:** WATER

Group #: WSCF20082039
Department: Inorganic
Sampled: 09/22/08
Received: 09/22/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.0464	mg/L			2.00	0.046		09/22/08
Chloride	16887-00-6	LA-533-410	D	12.8	mg/L			2.00	0.094		09/22/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0256	mg/L			2.00	0.026		09/22/08
Nitrogen in Nitrate	NO3-N	LA-533-410	D	9.77	mg/L			2.00	0.024		09/22/08
Phosphate (P) by IC	PO4-P	LA-533-410	DU	< 0.121	mg/L			2.00	0.12		09/22/08
Sulfate	14808-79-8	LA-533-410	D	70.1	mg/L			2.00	0.26		09/22/08
Total Alkalinity as mg/L CaCO3											
Total Alkalinity as mg/L CaCO3	ALKALINITY	LA-531-411		63.0	mg/L			1.00	1.0		09/26/08

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

B - The analyte < the RDL but >= the IDL/MDL (inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
D - Analyte was identified at a secondary dilution factor(inorg)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35
SAF Number: G08-009
Sample # W08P004461
Client ID: B1WRJ3 GPP-PNNL WSCF TRENT **Matrix:** WATER

Group #: WSCF20082039
Department: Inorganic
Sampled: 09/22/08
Received: 09/22/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.0464	mg/L			2.00	0.046		09/22/08
Chloride	16887-00-6	LA-533-410	D	2.18	mg/L			2.00	0.094		09/22/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0256	mg/L			2.00	0.026		09/22/08
Nitrogen in Nitrate	NO3-N	LA-533-410	D	0.948	mg/L			2.00	0.024		09/22/08
Phosphate (P) by IC	PO4-P	LA-533-410	DU	< 0.121	mg/L			2.00	0.12		09/22/08
Sulfate	14808-79-8	LA-533-410	D	12.2	mg/L			2.00	0.26		09/22/08
Total Alkalinity as mg/L CaCO3											
Total Alkalinity as mg/L CaCO3	ALKALINITY	LA-531-411		66.0	mg/L			1.00	1.0		09/26/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
D - Analyte was identified at a secondary dilution factor(inorg)

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

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20082039
Matrix: WATER
Test: Anions by Ion Chromatography

Sample Date: 09/22/08
Receive Date:09/22/08

Lab ID: W08P004461
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
DUP	Chloride	16887-00-6	2.1614		RPD			0.696	20.000		09/22/08
DUP	Fluoride	16984-48-8	<4.64e-2		RPD			n/a	20.000	U	09/22/08
DUP	Nitrogen in Nitrite	NO2-N	<2.56e-2		RPD			n/a	20.000	U	09/22/08
DUP	Nitrogen in Nitrate	NO3-N	0.9361		RPD			1.242	20.000		09/22/08
DUP	Phosphate (P) by IC	PO4-P	<0.1212		RPD			n/a	20.000	U	09/22/08
DUP	Sulfate	14808-79-8	12.3468		RPD			1.451	20.000		09/22/08
MS	Chloride	16887-00-6	0.96775	97.261	% Recov	80.000	120.000				09/22/08
MS	Fluoride	16984-48-8	0.46735	94.797	% Recov	80.000	120.000				09/22/08
MS	Nitrogen in Nitrite	NO2-N	0.4835	98.272	% Recov	80.000	120.000				09/22/08
MS	Nitrogen in Nitrate	NO3-N	0.45295	101.558	% Recov	80.000	120.000				09/22/08
MS	Phosphate (P) by IC	PO4-P	0.9774	102.132	% Recov	80.000	120.000				09/22/08
MS	Sulfate	14808-79-8	2.0779	106.015	% Recov	80.000	120.000				09/22/08
MSD	Chloride	16887-00-6	0.96915	97.402	% Recov	80.000	120.000				09/22/08
MSD	Fluoride	16984-48-8	0.4604	93.387	% Recov	80.000	120.000				09/22/08
MSD	Nitrogen in Nitrite	NO2-N	0.48555	98.689	% Recov	80.000	120.000				09/22/08
MSD	Nitrogen in Nitrate	NO3-N	0.43825	98.262	% Recov	80.000	120.000				09/22/08
MSD	Phosphate (P) by IC	PO4-P	0.96445	100.778	% Recov	80.000	120.000				09/22/08
MSD	Sulfate	14808-79-8	2.1113	107.719	% Recov	80.000	120.000				09/22/08
SPK-RPD	Chloride	16887-00-6	97.402		RPD			0.145	20.000		09/22/08
SPK-RPD	Fluoride	16984-48-8	93.387		RPD			1.499	20.000		09/22/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	98.689		RPD			0.423	20.000		09/22/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	98.262		RPD			3.299	20.000		09/22/08
SPK-RPD	Phosphate (P) by IC	PO4-P	100.778		RPD			1.335	20.000		09/22/08
SPK-RPD	Sulfate	14808-79-8	107.719		RPD			1.595	20.000		09/22/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20082039
Matrix: WATER
Test: Anions by Ion Chromatography

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BATCH QC											
BLANK	Chloride	16887-00-6	<4.69e-2	n/a	mg/L	0.000	0.030			U	09/22/08
BLANK	Chloride	16887-00-6	<4.69e-2	n/a	mg/L	0.000	0.030			U	09/22/08
BLANK	Fluoride	16984-48-8	<2.32e-2	n/a	mg/L	0.000	0.030			U	09/22/08
BLANK	Fluoride	16984-48-8	<2.32e-2	n/a	mg/L	0.000	0.030			U	09/22/08
BLANK	Nitrogen in Nitrite	NO2-N	<1.28e-2	n/a	mg/L	0.000	0.020			U	09/22/08
BLANK	Nitrogen in Nitrite	NO2-N	<1.28e-2	n/a	mg/L	0.000	0.020			U	09/22/08
BLANK	Nitrogen in Nitrate	NO3-N	<1.21e-2	n/a	mg/L	0.000	0.040			U	09/22/08
BLANK	Nitrogen in Nitrate	NO3-N	<1.21e-2	n/a	mg/L	0.000	0.040			U	09/22/08
BLANK	Phosphate (P) by IC	PO4-P	<6.06e-2	n/a	mg/L	0.000	0.200			U	09/22/08
BLANK	Phosphate (P) by IC	PO4-P	<6.06e-2	n/a	mg/L	0.000	0.200			U	09/22/08
BLANK	Sulfate	14808-79-8	<0.132	n/a	mg/L	0.000	0.200			U	09/22/08
BLANK	Sulfate	14808-79-8	<0.132	n/a	mg/L	0.000	0.200			U	09/22/08
LCS	Chloride	16887-00-6	196.084	97.554	% Recov	80.000	120.000				09/22/08
LCS	Fluoride	16984-48-8	108.4427	108.878	% Recov	80.000	120.000				09/22/08
LCS	Nitrogen in Nitrite	NO2-N	97.8715	98.462	% Recov	80.000	120.000				09/22/08
LCS	Nitrogen in Nitrate	NO3-N	91.925	102.026	% Recov	80.000	120.000				09/22/08
LCS	Phosphate (P) by IC	PO4-P	195.9378	101.312	% Recov	80.000	120.000				09/22/08
LCS	Sulfate	14808-79-8	394.1502	99.533	% Recov	80.000	120.000				09/22/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20082039
Matrix: WATER
Test: Total Alkalinity as mg/L CaCO3

Sample Date: 09/23/08
Receive Date:09/23/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR03862											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Total Alkalinity as mg/L CaCO3	ALKALINITY	84.03		RPD			4.103	20.000		09/26/08
Lab ID: W08P004444											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Total Alkalinity as mg/L CaCO3	ALKALINITY	76.72		RPD			0.714	20.000		09/26/08
BATCH QC											
LCS	Total Alkalinity as mg/L CaCO3	ALKALINITY	32.28	108.322	%Recove	80.000	120.000				09/26/08
LCS	Total Alkalinity as mg/L CaCO3	ALKALINITY	31.45	105.537	%Recove	80.000	120.000				09/26/08
LCS	Total Alkalinity as mg/L CaCO3	ALKALINITY	32.06	107.584	%Recove	80.000	120.000				09/26/08

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35
SAF Number: I08-085
Sample # W08P004456
Client ID: B1WTJ6 GPP-PNNL WSCF TRENT **Matrix:** WATER

Group #: WSCF20082039
Department: Radiochemistry
Sampled: 09/22/08
Received: 09/22/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gamma Energy Analysis-grd H2O											
Antimony-125	14234-35-6	LA-508-481	U	21.0	pCi/L	+-21.2	pCi/L	1.00	38		10/08/08
Cobalt-60	10198-40-0	LA-508-481	U	-5.97	pCi/L	+-5.95	pCi/L	1.00	9.5		10/08/08
Cesium-134	13967-70-9	LA-508-481	U	7.74	pCi/L	+-10.1	pCi/L	1.00	18		10/08/08
Cesium-137	10045-97-3	LA-508-481	U	3.38	pCi/L	+-5.43	pCi/L	1.00	9.6		10/08/08
Europium-152	14683-23-9	LA-508-481	U	-1.45	pCi/L	+-14.5	pCi/L	1.00	28		10/08/08
Europium-154	15585-10-1	LA-508-481	U	-1.92	pCi/L	+-16.0	pCi/L	1.00	28		10/08/08
Europium-155	14391-16-3	LA-508-481	U	9.47	pCi/L	+-23.4	pCi/L	1.00	40		10/08/08
Potassium-40	13966-00-2	LA-508-481	U	-80.1	pCi/L	+-89.4	pCi/L	1.00	1.4e+02		10/08/08
Ruthenium-106	13967-48-1	LA-508-481	U	-157	pCi/L	+-182	pCi/L	1.00	2.9e+02		10/08/08
Be-7 by GEA	13966-02-4	LA-508-481	U	0.323	pCi/L	+-0.258	pCi/L	1.00	1.4e+02		10/08/08
Gross Alpha on Alpha Plateau											
Gross alpha on alpha plateau	12587-46-1	LA-508-415	U	5.00e-03	pCi/L	+-1.00e-03	pCi/L	1.00	2.1		10/08/08
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		160	pCi/L	+-19.2	pCi/L	1.00	1.3		09/24/08
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		73.6	Percent			1.00	0.0		09/24/08
Tritium by Liq Sct column prep											
Tritium	10028-17-8	LA-508-421		1.20e+04	pCi/L	+-2.40e+03	pCi/L	1.00	2.3e+02		10/10/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
D - Analyte was identified at a secondary dilution factor(inorg)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35
SAF Number: G08-009
Sample # W08P004457
Client ID: B1WRL2 GPP-PNNL WSCF TRENT **Matrix:** WATER

Group #: WSCF20082039
Department: Radiochemistry
Sampled: 09/22/08
Received: 09/22/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha on Alpha Plateau											
Gross alpha on alpha plateau	12587-46-1	LA-508-415	U	2.60	pCi/L	+-3.69	pCi/L	1.00	6.1		10/09/08
Gross Alpha/Gross Beta (AB32)											
Gross beta	12587-47-2	LA-508-415		7.00e+03	pCi/L	+-700	pCi/L	1.00	12		10/08/08

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

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U - Analyzed for but not detected above limiting criteria(inorg)
D - Analyte was identified at a secondary dilution factor(inorg)

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35
SAF Number: G08-009
Sample # W08P004458
Client ID: B1WRF8 GPP-PNNL TRENT WSCF **Matrix:** WATER

Group #: WSCF20082039
Department: Radiochemistry
Sampled: 09/22/08
Received: 09/22/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha on Alpha Plateau											
Gross alpha on alpha plateau	12587-46-1	LA-508-415	U	0.110	pCi/L	+-0.792	pCi/L	1.00	1.6		10/09/08
Gross Alpha/Gross Beta (AB32)											
Gross beta	12587-47-2	LA-508-415		2.60e+03	pCi/L	+-260	pCi/L	1.00	3.4		10/08/08
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		1.20e+03	pCi/L	+-156	pCi/L	1.00	1.4		09/24/08
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		71.6	Percent			1.00	0.0		09/24/08
Tritium by Liq Sct column prep											
Tritium	10028-17-8	LA-508-421		1.20e+04	pCi/L	+-2.40e+03	pCi/L	1.00	2.3e+02		10/10/08

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

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U - Analyzed for but not detected above limiting criteria(inorg)
D - Analyte was identified at a secondary dilution factor(inorg)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35
SAF Number: G08-009
Sample # W08P004459
Client ID: B1WRH2 GPP-PNNL WSCF TRENT **Matrix:** WATER

Group #: WSCF20082039
Department: Radiochemistry
Sampled: 09/22/08
Received: 09/22/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha on Alpha Plateau											
Gross alpha on alpha plateau	12587-46-1	LA-508-415	U	0.130	pCi/L	+-0.338	pCi/L	1.00	0.63		10/09/08
Gross Alpha/Gross Beta (AB32)											
Gross beta	12587-47-2	LA-508-415	U	0.530	pCi/L	+-0.954	pCi/L	1.00	1.6		10/08/08
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415	U	-2.90	pCi/L	+-2.90	pCi/L	1.00	1.3		09/24/08
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		76.2	Percent			1.00	0.0		09/24/08
Tritium by Liq Sct column prep											
Tritium	10028-17-8	LA-508-421	U	-46.0	pCi/L	+-94.8	pCi/L	1.00	2.3e+02		10/06/08

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

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

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35
SAF Number: G08-009
Sample # W08P004460
Client ID: B1WRH9 GPP-PNNL WSCF TRENT **Matrix:** WATER

Group #: WSCF20082039
Department: Radiochemistry
Sampled: 09/22/08
Received: 09/22/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha on Alpha Plateau											
Gross alpha on alpha plateau	12587-46-1	LA-508-415	U	0.540	pCi/L	+-0.767	pCi/L	1.00	1.3		10/09/08
Gross Alpha/Gross Beta (AB32)											
Gross beta	12587-47-2	LA-508-415		4.20e+03	pCi/L	+-420	pCi/L	1.00	2.4		10/08/08
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		2.20e+03	pCi/L	+-264	pCi/L	1.00	1.2		09/24/08
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		80.9	Percent			1.00	0.0		09/24/08
Tritium by Liq Sct column prep											
Tritium	10028-17-8	LA-508-421		1.40e+04	pCi/L	+-2.80e+03	pCi/L	1.00	2.3e+02		10/06/08

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

B - The analyte < the RDL but >= the IDL/MDL (inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
D - Analyte was identified at a secondary dilution factor(inorg)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35
SAF Number: G08-009
Sample # W08P004461
Client ID: B1WRJ3 GPP-PNNL WSCF TRENT **Matrix:** WATER

Group #: WSCF20082039
Department: Radiochemistry
Sampled: 09/22/08
Received: 09/22/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha on Alpha Plateau											
Gross alpha on alpha plateau	12587-46-1	LA-508-415	U	-0.500	pCi/L	+-0.600	pCi/L	1.00	1.4		10/10/08
Gross Alpha/Gross Beta (AB32)											
Gross beta	12587-47-2	LA-508-415		500	pCi/L	+-50.0	pCi/L	1.00	2.6		10/08/08
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		250	pCi/L	+-1.52e+03	pCi/L	1.00	1.2		09/24/08
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		83.2	Percent			1.00	0.0		09/24/08
Tritium by Liq Sct column prep											
Tritium	10028-17-8	LA-508-421		320	pCi/L	+-170	pCi/L	1.00	2.3e+02		10/06/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
D - Analyte was identified at a secondary dilution factor(inorg)

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WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20082039
Matrix: WATER
Test: Gamma Energy Analysis-grd H2O

Sample Date: 09/22/08
Receive Date:09/22/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08P004456											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Cobalt-60	10198-40-0	U3.172		RPD			n/a	20.000		10/07/08
DUP	Cesium-134	13967-70-9	U-0.6836		RPD			n/a	20.000		10/07/08
DUP	Cesium-137	10045-97-3	U-0.402		RPD			n/a	20.000		10/07/08
DUP	Europium-152	14683-23-9	U12.81		RPD			n/a	20.000		10/07/08
DUP	Europium-154	15585-10-1	U-1.414		RPD			n/a	20.000		10/07/08
DUP	Europium-155	14391-16-3	U4.66		RPD			n/a	20.000		10/07/08
DUP	Potassium-40	13966-00-2	U-98.17		RPD			n/a	20.000		10/07/08
DUP	Ruthenium-106	13967-48-1	U-1.763		RPD			n/a	20.000		10/07/08
DUP	Antimony-125	14234-35-6	U-4.769		RPD			n/a	20.000		10/07/08
BATCH QC											
BLANK	Cobalt-60	10198-40-0	U1.429	n/a	pCi/L	-10.000	1000.000				10/07/08
BLANK	Cesium-134	13967-70-9	U3.128	n/a	pCi/L	-10.000	1000.000				10/07/08
BLANK	Cesium-137	10045-97-3	U-0.8251	n/a	pCi/L	-10.000	1000.000				10/07/08
BLANK	Europium-152	14683-23-9	U-5.313	n/a	pCi/L	-10.000	1000.000				10/07/08
BLANK	Europium-154	15585-10-1	U-8.93	n/a	pCi/L	-10.000	1000.000				10/07/08
BLANK	Europium-155	14391-16-3	U1.256	n/a	pCi/L	-10.000	1000.000				10/07/08
BLANK	Potassium-40	13966-00-2	U-116.9	n/a	pCi/L	-10.000	1000.000				10/07/08
BLANK	Ruthenium-106	13967-48-1	U21.03	n/a	pCi/L	-10.000	1000.000				10/07/08
BLANK	Antimony-125	14234-35-6	U0.2982	n/a	pCi/L	-10.000	1000.000				10/07/08
LCS	Cobalt-60	10198-40-0	9894	99.537	% Recov	80.000	120.000				10/07/08
LCS	Cesium-137	10045-97-3	6239	103.295	% Recov	80.000	120.000				10/07/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20082039
Matrix: WATER
Test: Gross Alpha on Alpha Plateau

Sample Date: 09/22/08
Receive Date:09/22/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08P004456											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Gross alpha on alpha plateau	12587-46-1	U1.3		RPD			n/a	20.000		10/08/08
BATCH QC											
BLANK	Gross alpha on alpha plateau	12587-46-1-ap	U5.0E-03	n/a	pCi/L	-100.000	100.000				10/08/08
LCS	Gross alpha on alpha plateau	12587-46-1-ap	67.2	86.732	% Recov	80.000	120.000				10/08/08
Lab ID: W08P004449											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Gross alpha on alpha plateau	12587-46-1	U4.5E-01		RPD			n/a	20.000		10/09/08
BATCH QC											
BLANK	Gross alpha on alpha plateau	12587-46-1-ap	U3.6E-01	n/a	pCi/L	-100.000	100.000				10/09/08
LCS	Gross alpha on alpha plateau	12587-46-1-ap	38.3	98.864	% Recov	80.000	120.000				10/09/08
Lab ID: W08P004461											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Gross alpha on alpha plateau	12587-46-1	U2.6E-01		RPD			n/a	20.000		10/10/08
BATCH QC											
BLANK	Gross alpha on alpha plateau	12587-46-1-ap	U1.4E-01	n/a	pCi/L	-100.000	100.000				10/10/08
LCS	Gross alpha on alpha plateau	12587-46-1-ap	59.4	95.837	% Recov	80.000	120.000				10/10/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20082039
Matrix: WATER
Test: Gross Alpha/Gross Beta (AB32)

Sample Date: 09/22/08
Receive Date:09/22/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08P004461											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Gross beta	12587-47-2	4.7E+02		RPD			6.186	20.000		10/08/08
BATCH QC											
BLANK	Gross beta	12587-47-2	U8.6E-01	n/a	pCi/L	-10.000	10.000				10/08/08
LCS	Gross beta	12587-47-2	199.0	110.888	% Recov	80.000	120.000				10/08/08
Lab ID: W08P004449											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Gross alpha	12587-46-1	U-5.3E-01		RPD			n/a	20.000		10/08/08
DUP	Gross beta	12587-47-2	7.6		RPD			9.655	20.000		10/08/08
BATCH QC											
BLANK	Gross alpha	12587-46-1	U-3.6e-01	n/a	pCi/L	-10.000	10.000				10/08/08
BLANK	Gross beta	12587-47-2	U-6.1E-01	n/a	pCi/L	-10.000	10.000				10/08/08
LCS	Gross alpha	12587-46-1	38.7	99.665	% Recov	80.000	120.000				10/08/08
LCS	Gross beta	12587-47-2	122	108.734	% Recov	80.000	120.000				10/08/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20082039
Matrix: WATER
Test: Strontium 89/90

Sample Date: 09/22/08
Receive Date:09/22/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08P004456											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Sr-85 Tracer by Beta Counting	SR85	84.7	84.700	% Recov	30.000	105.000				09/24/08
DUP	Strontium-89/90	SR-RAD	1.4E+02		RPD			13.333	20.000		09/24/08
SURR	Sr-85 Tracer by Beta Counting	SR85	73.6	73.600	% Recov	30.000	105.000				09/24/08
Lab ID: W08P004458											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	71.6	71.600	% Recov	30.000	105.000				09/24/08
Lab ID: W08P004459											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	76.2	76.200	% Recov	30.000	105.000				09/24/08
Lab ID: W08P004460											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	80.9	80.900	% Recov	30.000	105.000				09/24/08
Lab ID: W08P004461											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	83.2	83.200	% Recov	30.000	105.000				09/24/08
BATCH QC											
BLANK	Sr-85 Tracer by Beta Counting	SR85	94.7	94.700	% Recov	30.000	105.000				09/24/08
BLANK	Strontium-89/90	10098-97-2	U-2.1	n/a	pCi/L	-10.000	100.000				09/24/08
LCS	Sr-85 Tracer by Beta Counting	SR85	79.6	79.600	% Recov	30.000	105.000				09/24/08
LCS	Strontium-89/90	10098-97-2	163.	117.410	% Recov	80.000	120.000				09/24/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20082039
Matrix: WATER
Test: Tritium by Liq Sct column prep

Sample Date: 09/22/08
Receive Date:09/22/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08P004459											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Tritium	10028-17-8	U-7.1E+01		RPD			n/a	20.000		10/06/08
MS	Tritium	10028-17-8	19445.9	86.759	% Recov	75.000	125.000				10/06/08
BATCH QC											
BLANK	Tritium	10028-17-8	U-4.6E+01	n/a	pCi/L	-10.000	1000.000				10/06/08
LCS	Tritium	10028-17-8	3230.0	95.667	% Recov	80.000	120.000				10/06/08
Lab ID: W08P004430											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Tritium	10028-17-8	2.4E+02		RPD			8.000	20.000		10/10/08
MS	Tritium	10028-17-8	20542	91.580	% Recov	75.000	125.000				10/10/08
BATCH QC											
BLANK	Tritium	10028-17-8	U-9.0E+01	n/a	pCi/L	-10.000	1000.000				10/10/08
LCS	Tritium	10028-17-8	3090	91.450	% Recov	80.000	120.000				10/10/08

M4W41-SLF-08-1162

ATTACHMENT 4

SAMPLE RECEIPT INFORMATION

Consisting of 8 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#: 20082039

The following samples were received from you on 09/22/08. 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
W08P004456	B1WTJ6	GPP-PNNL	TRENT Water				09/22/08
		@ALPHA	@GEA-GPP	@H3-33	@IC-30	@SR89_90	
		ALKALI					
W08P004457	B1WRL2	GPP-PNNL	TRENT Water				09/22/08
		@AB-32	@ALPHA	@IC-30			
W08P004458	B1WRF8	GPP-PNNL	TRENT Water				09/22/08
		@AB-32	@ALPHA	@H3-33	@IC-30	@SR89_90	
		ALKALI					
W08P004459	B1WRH2	GPP-PNNL	TRENT Water				09/22/08
		@AB-32	@ALPHA	@H3-33	@IC-30	@SR89_90	
		ALKALI					
W08P004460	B1WRH9	GPP-PNNL	TRENT Water				09/22/08
		@AB-32	@ALPHA	@H3-33	@IC-30	@SR89_90	
		ALKALI					
W08P004461	B1WRJ3	GPP-PNNL	TRENT Water				09/22/08
		@AB-32	@ALPHA	@H3-33	@IC-30	@SR89_90	
		ALKALI					

Test Acronym Description

Test Acronym	Description
@AB-32	Gross Alpha/Gross Beta (AB32)
@ALPHA	Gross Alpha on Alpha Plateau
@GEA-GPP	Gamma Energy Analysis-grd H2O
@H3-33	Tritium by Liq Sct column prep
@IC-30	Anions by Ion Chromatography
@SR89_90	Strontium 89/90
ALKALI	Total Alkalinity as mg/L CaCO3

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

I08-058-14

Collector R. D. Julian	Contact/Requester Mike Neely	Telephone No. 509-373-0654 MSIN FAX
SAF No. 108-058	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100NR2IAM, SEPTEMBER 2008	HNF-N-506-14	Ice Chest No. ERC-1 Temp.
Shipped To (Lab) Waste Sampling & Characterization	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol CERCLA 20082039	Priority: 30 Days PRIORITY	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
100 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1WTJ6 WO	8P0044560	W	9-22-08	1049	1x250-mL G/P	2320_ALKALINITY: Alkalinity (1)	14 Days	Cool~4C
B1WTJ6		W	↓	↓	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	28 Days/48 Hours	Cool~4C
B1WTJ6		W			1x250-mL G	TRITIUM_EIE_LSC: Tritium (1)	6 Months	None
B1WTJ6		W			1x500-mL G/P	Gross Alpha	6 Months	HNO3 to pH <2
B1WTJ6		W			1x500-mL G/P	GAMMA_GS: List-1 (10)	6 Months	HNO3 to pH <2
B1WTJ6		W	↓	↓	1x1-L G/P	Strontium-89,90 -- Total Sr	6 Months	HNO3 to pH <2

ICED

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. D. Julian			SEP 22 2008 1340	Victor Bins		9/22	SEP 22 2008 1340
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) Disposed By Date/Time

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

G08-009-52

Collector: R. D. Julian	Contact/Requester: Mike Neely	Telephone No.: 509-373-2265 MSIN FAX
SAF No.: G08-009	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 1NR2-RB, SEPTEMBER 2008	HNF N-506-14	Ice Chest No.: ERC-1 Temp.
Shipped To (Lab): Waste Sampling & Characterization	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 30 Days **PRIORITY**	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 ☐
100 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
~~B1WRL2~~		W	~~9-22-08~~	~~1141~~	~~1x250-mL G/P~~	~~2320_ALKALINITY: Alkalinity (1)~~	~~14 Days~~ DMK 9-22-08	~~Cool~4C~~
B1WRL2 WO 8P00445 7		W			1x500-mL P	300.0_ANIONS_IC: List-1 + Phosphate (6)	28 Days/48 Hours	Cool~4C
B1WRL2		W			1x500-mL G/P	ALPHABETA_GPC: Alpha discrete + Beta (2); ~~ALPHABETA_GPC: Alpha discrete + Beta (2)~~ DMK 9/22/08	6 Months	HNO3 to pH <2 DMK 9/22/08
~~B1WRL2~~		~~W~~			~~1x1-L G/P~~	~~Strontium 89,90 ~ Total Sr~~	~~6 Months~~	~~HNO3 to pH <2~~
~~B1WRL2~~		~~W~~			~~1x250-mL G~~	~~TRITIUM_EIE_LSC: Tritium (1)~~	~~6 Months~~	~~None~~ DMK 9/22/08

ICED

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. D. Julian			SEP 22 2008 1340	V. Hayes			SEP 22 2008 1340
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) — Disposed By — Date/Time

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

G08-009-4

Collector Roy Shepard Fluor Hanford	**Contact/Requester** Mike Neely	**Telephone No.** 509-373-2265 **MSIN** **FAX**
SAF No. G08-009	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 1NR2-RB, SEPTEMBER 2008	1HNF-N-306-18	**Ice Chest No.** GW-1 **Temp.**
Shipped To (Lab) Waste Sampling & Characterization	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 30 Days **PRIORITY**	**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 ☐
100 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1WRF8	W0 8P004458	W	92208	1156	1x250-mL G/P	2320_ALKALINITY: Alkalinity (1)	14 Days	Cool~4C
B1WRF8		W			1x500-mL P	300.0_ANIONS_IC: List-1 + Phosphate (6)	28 Days/48 Hours	Cool~4C
B1WRF8		W			1x500-mL G/P	ALPHABETA_GPC: Alpha discrete + Beta (2); ALPHABETA_GPC: Alpha discrete + Beta (2)	6 Months	HNO3 to pH <2
B1WRF8		W			1x1-L G/P	Strontium-89,90 -- Total Sr	6 Months	HNO3 to pH <2
B1WRF8		W			1x250-mL G	TRITIUM_EIE_LSC: Tritium (1)	6 Months	None

ICED

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Roy Shepard Fluor Hanford			SEP 22 2008 1405		Victor Blue		SEP 22 2008 1405
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) Disposed By Date/Time

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

G08-009-5

Collector Roy Shepard Fluor Hanford	Contact/Requester Mike Neely	Telephone No. 509-373-2265 MSIN FAX
SAF No. G08-009	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 1NR2-RB, SEPTEMBER 2008	HNF-N 526-18	Ice Chest No. GW-1 Temp.
Shipped To (Lab) Waste Sampling & Characterization	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol SURV	Priority: 30 Days **PRIORITY**	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 ☐
100 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1WRH2	W05200459	W	9-22-08	0800	1x250-mL G/P	2320_ALKALINITY: Alkalinity (1)	14 Days	Cool~4C
B1WRH2		W			1x500-mL P	300.0_ANIONS_IC: List-1 + Phosphate (6)	28 Days/48 Hours	Cool~4C
B1WRH2		W			1x500-mL G/P	ALPHABETA_GPC: Alpha discrete + Beta (2); ALPHABETA_GPC: Alpha discrete + Beta (2)	6 Months	HNO3 to pH <2
B1WRH2		W			1x1-L G/P	Strontium-89,90 -- Total Sr	6 Months	HNO3 to pH <2
B1WRH2		W			1x250-mL G	TRITIUM_EIE_LSC: Tritium (1)	6 Months	None

ICED

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Roy Shepard Fluor Hanford		SEP 22 2008	1405	Victor Sims		SEP 22 2008	1405
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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

G08-009-16

Collector ~~Roy Shepard~~ Fluor Hanford	**Contact/Requester** Mike Neely	**Telephone No.** 509-373-2265 **MSIN** **FAX**
SAF No. G08-009	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 1NR2-RB, SEPTEMBER 2008	HNF-N-506-14	**Ice Chest No.** GW-1 **Temp.**
Shipped To (Lab) Waste Sampling & Characterization	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 30 Days **PRIORITY**	**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 ☐
100 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1WRH9	W0SP0014GC	W	9/22/08	1328	1x250-mL G/P	2320_ALKALINITY: Alkalinity (1)	14 Days	Cool~4C
B1WRH9		W			1x500-mL P	300.0_ANIONS_IC: List-1 + Phosphate (6)	28 Days/48 Hours	Cool~4C
B1WRH9		W			1x500-mL G/P	ALPHABETA_GPC: Alpha discrete + Beta (2); ALPHABETA_GPC: Alpha discrete + Beta (2)	6 Months	HNO3 to pH <2
B1WRH9		W			1x1-L G/P	Strontium-89,90 -- Total Sr	6 Months	HNO3 to pH <2
B1WRH9		W			1x250-mL G	TRITIUM_EIE_LSC: Tritium (1)	6 Months	None

ICED

Relinquished By	Received By
Print: Roy Shepard Fluor Hanford Sign: SEP 22 2008 Date/Time: 1405	Print: Victor Sims Sign: SEP 22 2008 Date/Time: 1405
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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

G08-009-22

Collector Roy Shepard Fluor Hanford	Contact/Requester Mike Neely	Telephone No. 509-373-2265 MSIN FAX
SAF No. G08-009	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title INR2-RB. SEPTEMBER 2008	HNF-N-526-18	Ice Chest No. GW-1 Temp.
Shipped To (Lab) Waste Sampling & Characterization	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol SURV	Priority: 30 Days PRIORITY	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
100 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1WRJ3	WCSP00446	W	92208	1246	1x250-mL G/P	2320_ALKALINITY: Alkalinity (1)	14 Days	Cool~4C
B1WRJ3		W			1x500-mL P	300.0_ANIONS_IC: List-1 + Phosphate (6)	28 Days/48 Hours	Cool~4C
B1WRJ3		W			1x500-mL G/P	ALPHABETA_GPC: Alpha discrete + Beta (2); ALPHABETA_GPC: Alpha discrete + Beta (2)	6 Months	HNO3 to pH <2
B1WRJ3		W			1x1-L G/P	Strontium-89,90 -- Total Sr	6 Months	HNO3 to pH <2
B1WRJ3		W			1x250-mL G	TRITIUM_EIE_LSC: Tritium (1)	6 Months	None

ICED

Relinquished By	Received By
Roy Shepard Fluor Hanford — Print — Sign — SEP 22 2008 1405	Victor [illegible] — Print — Sign — SEP 22 2008 1405
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) Disposed By Date/Time

Anastos, Heather L

Subject:	Annual Groundwater Report - QC Section Kickoff
Location:	1933 Jadwin/135C
Start:	Fri 10/24/2008 10:00 AM
End:	Fri 10/24/2008 10:30 AM
Recurrence:	(none)
Meeting Status:	Meeting organizer
Required Attendees:	Anastos, Heather L; Sumner, Laine C; Fies, Gregory A; Newbill, Chris A; Hampt, Heidi; CR - 1933 Jadwin/135C/RCHC; Davis, Susan C; Thompson, Christopher J; Prignano, Andrea L
Optional Attendees:	Neely, Michael; Trent, Stephen J

Chris - Can you please schedule the conference room?

All -

Your attendance is requested at the kick-off meeting for the QC section of the 2008 Hanford Site Groundwater Monitoring report. You are the lucky winners of either contributing author or reviewer status for this illustrious report. To those of you who have supported this in the past, you know what you're in for - and, no, your sections may not be reassigned. To those of you new to this effort - welcome and don't worry, everything you've heard about this report CAN'T possibly be true. :)

Annual report outline and sche...