0080989

RECEIVED SEPTEMBER 29, 2008

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

FLUOR

Memorandum

M4W41-SLF-08-1075

To: H. Hampt E6-35 Date: September 26, 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: FINAL RESULTS FOR SAMPLE DELIVERY GROUP WSCF20081825 – SAF NUMBER F08-146

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

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

This letter contains the following information for sample delivery group WSCF20081825:

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

SLF/grf

Attachments 4

RECEIVED
JAN 27 2009
EDMC

M4W41-SLF-08-1075

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#:	WSCF20081825	
Data Deliverable Date:	09-oct-2008	
Data Deliverable:	Cover Sheet	

SAF#	Sample ID	WSCF#	Matrix
F08-146	B1X218	W08GR03489	WATER

M4W41-SLF-08-1075

ATTACHMENT 2

NARRATIVE

Consisting of 4 pages
Including cover page

Introduction

One (1) S&GRP sample was received at the WSCF Laboratory on August 25, 2008. This sample was 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,* pages 13 through 15, for a complete listing of approved analytical methods.

Inorganic Comments

Anions – The hold time requirement for this analysis was 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 page 17 for QC details. Analytical Note(s):

- Matrix Spike and Matrix Spike Duplicate were analyzed on sample# B1WW86 (SDG# 20081813, SAF# F06-027.)

All QC controls are within the established limits.

ICP-AES Metals – The hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per the GRP Letter of Instruction. See page 18 for QC details. Analytical Note(s):

- Matrix Spike and Matrix Spike Duplicate were analyzed on sample# B1WRF6 (SDG# 20081732, SAF# F08-094).

All QC controls are within the established limits.

ICP-MS Metals – The hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per the GRP Letter of Instruction. See page 19 for QC details. Analytical Note(s):

- Matrix Spike and Matrix Spike Duplicate were analyzed on sample# B1WR23 (SDG# 20081793, SAF# F08-155)

- The sample concentration of Manganese in the MS/MSD was high, therefore, the recovery for this analyte did not meet the established limit of the laboratory for QC samples B1WPW6 and B1WPX2. The Manganese analyte in the sample was X flagged.

All other QC controls are within the established limits.

Organic Comments

NWTPH-D – The hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per the GPP Letter of Instruction. See page 22 for QC details. Analytical Note(s):

- Matrix Spike and Matrix Spike Duplicate were analyzed on sample# B1WDN1 (SDG# 20081849).

All QC controls are within the established limits.

VOA – The hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample, were analyzed with this delivery group per the GRP Letter of Instruction. See pages 23 through 24 for QC details. Analytical Note(s):

- Matrix Spike and Matrix Spike Duplicate were analyzed on sample# B1X1N5 (SDG# 20081847, SAF# F08-152).

All QC controls are within the established limits.

Rad Chem – There are no hold times associated with WSCF's radiochemical methods. A Duplicate, Matrix Spike *(Matrix Spikes apply only to Neptunium, Technetium & Tritium and Matrix Spike Duplicate applies to Neptunium),* Blank and Laboratory Control Sample were analyzed with this delivery group. See pages 26 through 29 for QC details. Analytical Note(s):

- Rad Chem analyses requested to be performed on this sample included: Tritium Analysis by LSC, Sr-89/90, Tc-99 by LSC, and Uranium Isotopic by AEA.

- Sr 89/90: Duplicate was analyzed on sample# B1X218, (SDG#20081825, SAF# F08-146).

- TC-99 by LSC: Matrix Spike and Duplicate was analyzed on sample# B1WPH8, (SDG#20081729, SAF# F08-146).

- Tritium Analysis: Duplicate was analyzed on sample# B1WPH4, (SDG#20081675, SAF# F08-146).

- Uranium by AEA: Duplicate was analyzed on sample# B1WPH4, (SDG#20081675, SAF# F08-146).

All other 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

Andrew Kopriva
WSCF Client Services

M4W41-SLF-08-1075

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 22 pages
Including cover page

WSCF
ANALYTICAL RESULTS REPORT

for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical: S. Fitzgerald 9/26/08

Client Services: A. Koprivia 9/26/08

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#: WSCF20081825
Report Date: 25-sep-2008
Report WGPP/ver. 5.2
Groundwater Remediation Program

w13qlog v4.2 25-sep-2008 12:07:16

Department: Inorganic

W13q Worklist/Batch/QC Report for Group# WSCF20081825

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
37775	2	38209	42577	BLANK		Anions by Ion Chromatography
37775	10	38209	42577	BLANK		Anions by Ion Chromatography
37775	3	38209	42577	LCS		Anions by Ion Chromatography
37775	5	38209	42577	DUP	W08GR03472	Anions by Ion Chromatography
37775	6	38209	42577	MS	W08GR03472	Anions by Ion Chromatography
37775	7	38209	42577	MSD	W08GR03472	Anions by Ion Chromatography
37775	7	38209	42577	SPK-RPD	W08GR03472	Anions by Ion Chromatography
37775	9	38209	42577	SAMPLE	W08GR03489	Anions by Ion Chromatography
37815	1	38240	42613	BLANK		ICP-200.8 MS All possible meta
37815	2	38240	42613	LCS		ICP-200.8 MS All possible meta
37815	4	38240	42613	MS	W08GR03426	ICP-200.8 MS All possible meta
37815	5	38240	42613	MSD	W08GR03426	ICP-200.8 MS All possible meta
37815	5	38240	42613	SPK-RPD	W08GR03426	ICP-200.8 MS All possible meta
37815	23	38240	42613	SAMPLE	W08GR03489	ICP-200.8 MS All possible meta
37997	1	38416	42940	BLANK		ICP Metals Analysis, Grd H20 P
37997	2	38416	42940	LCS		ICP Metals Analysis, Grd H20 P
37997	4	38416	42940	MS	W08GR03334	ICP Metals Analysis, Grd H20 P
37997	5	38416	42940	MSD	W08GR03334	ICP Metals Analysis, Grd H20 P
37997	5	38416	42940	SPK-RPD	W08GR03334	ICP Metals Analysis, Grd H20 P
37997	10	38416	42940	SAMPLE	W08GR03489	ICP Metals Analysis, Grd H20 P

w13qlog v4.2 25-sep-2008 12:07:16

Department: Organic

W13q Worklist/Batch/QC Report for Group# WSCF20081825

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
			42593	BLANK		VOA Ground Water Protection
			42593	LCS		VOA Ground Water Protection
			42593	SAMPLE	W08GR03489	VOA Ground Water Protection
			42593	SURR	W08GR03489	VOA Ground Water Protection
			42593	MS	W08GR03500	VOA Ground Water Protection
			42593	MSD	W08GR03500	VOA Ground Water Protection
			42593	SPK-RPD	W08GR03500	VOA Ground Water Protection
			42864	BLANK		NWTPH-D TPH Diesel Range (Wa)
			42864	LCS		NWTPH-D TPH Diesel Range (Wa)
			42864	SAMPLE	W08GR03489	NWTPH-D TPH Diesel Range (Wa)
			42864	SURR	W08GR03489	NWTPH-D TPH Diesel Range (Wa)
			42864	MS	W08P004214	NWTPH-D TPH Diesel Range (Wa)
			42864	MSD	W08P004214	NWTPH-D TPH Diesel Range (Wa)
			42864	SPK-RPD	W08P004214	NWTPH-D TPH Diesel Range (Wa)

w13qlog v4.2 25-sep-2008 12:07:16

Department: Radiochemistry

W13q Worklist/Batch/QC Report for Group# WSCF20081825

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
37952	1	38376	42883	BLANK		Tritium by Liq Sct column prep
37952	2	38376	42883	LCS		Tritium by Liq Sct column prep
37952	4	38376	42883	DUP	W08GR03265	Tritium by Liq Sct column prep
37952	3	38376	42883	MS	W08GR03265	Tritium by Liq Sct column prep
37952	11	38376	42883	SAMPLE	W08GR03489	Tritium by Liq Sct column prep
37945	1	38370	42888	BLANK		TC99 by Liquid Scin.
37945	2	38370	42888	LCS		TC99 by Liquid Scin.
37945	4	38370	42888	DUP	W08GR03329	TC99 by Liquid Scin.
37945	3	38370	42888	MS	W08GR03329	TC99 by Liquid Scin.
37945	8	38370	42888	SAMPLE	W08GR03489	TC99 by Liquid Scin.
38048	1	38467	42906	BLANK		Uranium Isotopics by AEA
38048	2	38467	42906	LCS		Uranium Isotopics by AEA
38048	3	38467	42906	DUP	W08GR03265	Uranium Isotopics by AEA
38048	16	38467	42906	SAMPLE	W08GR03489	Uranium Isotopics by AEA
38006	1	38427	42984	BLANK		Strontium 89/90
38006	2	38427	42984	LCS		Strontium 89/90
38006	3	38427	42984	DUP	W08GR03489	Strontium 89/90
38006	4	38427	42984	SAMPLE	W08GR03489	Strontium 89/90
38006	5	38427	42984	SURR	W08GR03489	Strontium 89/90

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-505-411	LA-505-411: ELEMENTAL ANALYSIS BY INDUCTIVELY COUPLED PLASMA ATOMIC EMISSION SPE	
	HEIS 6010_METALS_ICP	Inductively Coupled Plasma-Atomic Emmision Spectrometry
LA-505-412	LA-505-412: DETERMINATION OF TRACE ELEMENTS IN WATERS AND WASTES BY INDUCTIVELY	
	EPA-600/R-94-111 200.8	DETERMINATION OF TRACE ELEMENTS IN WATERS AND WASTES BY INDUCTIVELY COUPLED PLAS
	HEIS 200.8_METALS_ICPMS	Inductively Coupled Plasma - Mass Spectrometry
	HEIS RADISOTOPES_ICPMS	Radioisotopes by ICP/MS
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: Organic

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-523-455	LA-523-455: VOLATILE SAMPLE ANALYSIS BY SW-846	
	EPA SW-846 8000B	DETERMINATIVE CHROMATOGRAPHIC SEPARATIONS
	EPA SW-846 8260B	VOLATILE ORGANIC COMPOUNDS BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)
	HEIS 8260_VOA_GCMS	Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
LA-523-493	NWTPH-Diesel and/or Gasoline	
	HEIS WTPH_DIESEL (HEIS)	Total Petroleum Hydrocarbons in Diesel
	WDOE TPHD	Total Petroleum Hydrocarbons in Diesel

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-508-471 LA-508-471: ALPHA ENERGY ANALYZER DATA ACQUISITION AND SYSTEM CHECKOUT USING ALP

HEIS PUISO_IE_PRECIP_AEA	Plutonium by Alpha Energy Analysis
HEIS RAISO_AEA	Radium-226

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
SAF Number: F08-146
Sample # W08GR03489
Client ID: B1X218 TRENT WSCF

Matrix: WATER

Group #: WSCF20081825
Department: Inorganic
Sampled: 08/25/08
Received: 08/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Nitrogen in Nitrate	NO3-N	LA-533-410		3.58	mg/L			1.00	0.012		08/26/08
ICP Metals Analysis, Grd H20 P Prep											**09/14/08**
ICP Metals Analysis, Grd H20 P											
Iron	7439-89-6	LA-505-411	U	< 25.0	ug/L			1.00	25		09/16/08
ICP-200.8 MS All possible meta Prep											**08/26/08**
ICP-200.8 MS All possible meta											
Manganese	7439-96-5	LA-505-412		121	ug/L			1.00	0.100		08/28/08
Chromium	7440-47-3	LA-505-412		175	ug/L			1.00	0.500		08/28/08
Arsenic	7440-38-2	LA-505-412		2.65	ug/L			1.00	0.400		08/28/08

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

J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.(org)
U - Analyzed for but not detected above limiting criteria(inorg)

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

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081825
Matrix: WATER
Test: Anions by Ion Chromatography

Sample Date: 08/22/08
Receive Date:08/25/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR03472											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Nitrogen in Nitrate	NO3-N	<0.121		RPD			n/a	20.000	U	08/26/08
MS	Nitrogen in Nitrate	NO3-N	0.44504	99.785	% Recov	80.000	120.000				08/26/08
MSD	Nitrogen in Nitrate	NO3-N	0.45764	102.610	% Recov	80.000	120.000				08/26/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	102.610		RPD			2.792	20.000		08/26/08
BATCH QC											
BLANK	Nitrogen in Nitrate	NO3-N	<1.21e-2	n/a	mg/L	0.000	0.040			U	08/26/08
BLANK	Nitrogen in Nitrate	NO3-N	<1.21e-2	n/a	mg/L	0.000	0.040			U	08/26/08
LCS	Nitrogen in Nitrate	NO3-N	94.2074	104.559	% Recov	80.000	120.000				08/26/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081825
Matrix: WATER
Test: ICP Metals Analysis, Grd H20 P

Sample Date: 08/13/08
Receive Date:08/13/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR03334											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Iron	7439-89-6	983.9	98.390	% Recov	75.000	125.000				09/16/08
MSD	Iron	7439-89-6	1017	101.700	% Recov	75.000	125.000				09/16/08
SPK-RPD	Iron	7439-89-6	101.700		RPD			3.309	20.000		09/16/08
BATCH QC											
BLANK	Iron	7439-89-6	<25	n/a	ug/L					U	09/16/08
LCS	Iron	7439-89-6	988.5	98.850	% Recov	80.000	120.000				09/16/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081825
Matrix: WATER
Test: ICP-200.8 MS All possible meta

Sample Date: 08/20/08
Receive Date:08/20/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR03426											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Arsenic	7440-38-2	39.97	99.925	% Recov	70.000	130.000				08/28/08
MS	Chromium	7440-47-3	34.99	87.475	% Recov	70.000	130.000				08/28/08
MS	Manganese	7439-96-5	36.21	90.525	% Recov	70.000	130.000				08/28/08
MSD	Arsenic	7440-38-2	39.26	98.150	% Recov	70.000	130.000				08/28/08
MSD	Chromium	7440-47-3	33.89	84.725	% Recov	70.000	130.000				08/28/08
MSD	Manganese	7439-96-5	35.79	89.475	% Recov	70.000	130.000				08/28/08
SPK-RPD	Arsenic	7440-38-2	98.150		RPD			1.792	20.000		08/28/08
SPK-RPD	Chromium	7440-47-3	84.725		RPD			3.194	20.000		08/28/08
SPK-RPD	Manganese	7439-96-5	89.475		RPD			1.167	20.000		08/28/08
BATCH QC											
BLANK	Arsenic	7440-38-2	<0.4	n/a	ug/L					U	08/28/08
BLANK	Chromium	7440-47-3	<0.5	n/a	ug/L					U	08/28/08
BLANK	Manganese	7439-96-5	<0.1	n/a	ug/L					U	08/28/08
LCS	Arsenic	7440-38-2	37.21	93.025	% Recov	85.000	115.000				08/28/08
LCS	Chromium	7440-47-3	39.55	98.875	% Recov	85.000	115.000				08/28/08
LCS	Manganese	7439-96-5	39.02	97.550	% Recov	85.000	115.000				08/28/08

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-146
Sample # W08GR03489
Client ID: B1X218 TRENT WSCF **Matrix:** WATER

Group #: WSCF20081825
Department: Organic
Sampled: 08/25/08
Received: 08/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
NWTPH-D TPH Diesel Range (Wa) Prep											**08/27/08**
NWTPH-D TPH Diesel Range (Wa)											
Total Pet. Hydrocarbons Diesel	TPHDIESEL	LA-523-493	U	< 74.0	ug/L			1.00	74		09/12/08
Kerosene	TPHKEROSENE	LA-523-493	U	< 99.0	ug/L			1.00	99		09/12/08
VOA Ground Water Protection											
1,1-Dichloroethene	75-35-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		08/27/08
Trichloroethene	79-01-6	LA-523-455	J	4.20	ug/L			1.00	1.0		08/27/08
Benzene	71-43-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		08/27/08
Toluene	108-88-3	LA-523-455	J	3.70	ug/L			1.00	1.0		08/27/08
Chlorobenzene	108-90-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		08/27/08

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

J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.(org)
U - Analyzed for but not detected above limiting criteria(inorg)

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

WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F08-146 :F08-146

Group #: WSCF20081825
Department: Organic

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W08GR03489	B1X218	TRENT	VOA Ground Water Protection	SMP 14.304 Carbon Tetrachloride	56-23-5	14.30405		3.3	ug/L
W08GR03489	B1X218	TRENT	VOA Ground Water Protection	SMP 9.937 Methylene Chloride	75-09-2	9.937666		1.6	ug/L

RQ=Result Qualifier

This report may not be reproduced, except in its entirety without the written approval of the WSCF Laboratory.

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20081825
Matrix: WATER
Test: NWTPH-D TPH Diesel Range (Wa)

Sample Date: 08/25/08
Receive Date:08/25/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR03489											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	ortho-Terphenyl Surr	84-15-1	485.18	98.000	% Recov	70.000	130.000				09/12/08
Lab ID: W08P004214											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	ortho-Terphenyl Surr	84-15-1	537.02	112.000	% Recov	70.000	130.000				09/12/08
MS	Total Pet. Hydrocarbons Diesel	TPHDIESEL	2697.1	112.000	% Recov	75.000	125.000				09/12/08
MSD	ortho-Terphenyl Surr	84-15-1	528.50	110.000	% Recov	70.000	130.000				09/12/08
MSD	Total Pet. Hydrocarbons Diesel	TPHDIESEL	2651.1	110.000	% Recov	75.000	125.000				09/12/08
SPK-RPD	ortho-Terphenyl Surr	84-15-1	110.000		RPD			1.802	20.000		09/12/08
SPK-RPD	Total Pet. Hydrocarbons Diesel	TPHDIESEL	110.000		RPD			1.802	20.000		09/12/08
BATCH QC											
BLANK	Kerosene	TPHKEROSENE	< 100	n/a	ug/L					U	09/12/08
BLANK	ortho-Terphenyl Surr	84-15-1	482.77	96.600	% Recov	70.000	130.000				09/12/08
BLANK	Total Pet. Hydrocarbons Diesel	TPHDIESEL	< 75	n/a	ug/L					U	09/12/08
LCS	ortho-Terphenyl Surr	84-15-1	539.52	108.000	% Recov	70.000	130.000				09/12/08
LCS	Total Pet. Hydrocarbons Diesel	TPHDIESEL	2674.0	107.000	% Recov	80.000	120.000				09/12/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20081825
Matrix: WATER
Test: VOA Ground Water Protection

Sample Date: 08/25/08
Receive Date:08/25/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR03489											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	4-Bromofluorobenzene(Surr)	460-00-4	47.560	95.100	% Recov	75.000	125.000				08/27/08
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	53.580	107.000	% Recov	75.000	125.000				08/27/08
SURR	Toluene-d8(Surr)	2037-26-5	50.950	102.000	% Recov	75.000	125.000				08/27/08
Lab ID: W08GR03500											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	1,1-Dichloroethene	75-35-4	21.830	87.300	% Recov	63.000	117.000				08/27/08
MS	Benzene	71-43-2	23.610	94.400	% Recov	75.000	129.000				08/27/08
MS	4-Bromofluorobenzene(Surr)	460-00-4	47.940	95.900	% Recov	75.000	125.000				08/27/08
MS	Chlorobenzene	108-90-7	25.950	104.000	% Recov	79.000	119.000				08/27/08
MS	1,2-Dichloroethene-d4(Surr)	17060-07-0	53.780	108.000	% Recov	75.000	125.000				08/27/08
MS	Toluene-d8(Surr)	2037-26-5	50.260	101.000	% Recov	75.000	125.000				08/27/08
MS	Toluene	108-88-3	24.900	99.600	% Recov	76.000	120.000				08/27/08
MS	Trichloroethene	79-01-6	20.420	81.700	% Recov	73.000	123.000				08/27/08
MSD	1,1-Dichloroethene	75-35-4	21.890	87.600	% Recov	63.000	117.000				08/27/08
MSD	Benzene	71-43-2	23.150	92.600	% Recov	75.000	129.000				08/27/08
MSD	4-Bromofluorobenzene(Surr)	460-00-4	47.480	95.000	% Recov	75.000	125.000				08/27/08
MSD	Chlorobenzene	108-90-7	25.900	104.000	% Recov	79.000	119.000				08/27/08
MSD	1,2-Dichloroethane-d4(Surr)	17060-07-0	54.310	109.000	% Recov	75.000	125.000				08/27/08
MSD	Toluene-d8(Surr)	2037-26-5	49.910	99.800	% Recov	75.000	125.000				08/27/08
MSD	Toluene	108-88-3	24.480	97.900	% Recov	76.000	120.000				08/27/08
MSD	Trichloroethene	79-01-6	19.950	79.800	% Recov	73.000	123.000				08/27/08
SPK-RPD	1,1-Dichloroethene	75-35-4	87.600		RPD			0.343	20.000		08/27/08
SPK-RPD	Benzene	71-43-2	92.600		RPD			1.925	20.000		08/27/08
SPK-RPD	4-Bromofluorobenzene(Surr)	460-00-4	95.000		RPD			0.943	20.000		08/27/08
SPK-RPD	Chlorobenzene	108-90-7	104.000		RPD			0.000	20.000		08/27/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20081825
Matrix: WATER
Test: VOA Ground Water Protection

Sample Date: 08/26/08
Receive Date:08/26/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SPK-RPD	1,2-Dichloroethane-d4(Surr)	17060-07-0	109.000		RPD			0.922	20.000		08/27/08
SPK-RPD	Toluene-d8(Surr)	2037-26-5	99.800		RPD			1.195	20.000		08/27/08
SPK-RPD	Toluene	108-88-3	97.900		RPD			1.722	20.000		08/27/08
SPK-RPD	Trichloroethene	79-01-6	79.800		RPD			2.353	20.000		08/27/08

BATCH QC

BLANK	1,1-Dichloroethene	75-35-4	< 1.0	n/a	ug/L					U	08/26/08
BLANK	Benzene	71-43-2	< 1.0	n/a	ug/L					U	08/26/08
BLANK	4-Bromofluorobenzene(Surr)	460-00-4	48.320	96.600	% Recov	75.000	125.000				08/26/08
BLANK	Chlorobenzene	108-90-7	< 1.0	n/a	ug/L					U	08/26/08
BLANK	1,2-Dichloroethane-d4(Surr)	17060-07-0	54.170	108.000	% Recov	75.000	125.000				08/26/08
BLANK	Toluene-d8(Surr)	2037-26-5	49.000	98.000	% Recov	75.000	125.000				08/26/08
BLANK	Toluene	108-88-3	< 1.0	n/a	ug/L					U	08/26/08
BLANK	Trichloroethene	79-01-6	< 1.0	n/a	ug/L					U	08/26/08
LCS	1,1-Dichloroethene	75-35-4	23.380	93.500	% Recov	75.000	125.000				08/26/08
LCS	Benzene	71-43-2	23.140	92.600	% Recov	75.000	125.000				08/26/08
LCS	4-Bromofluorobenzene(Surr)	460-00-4	47.720	95.400	% Recov	75.000	125.000				08/26/08
LCS	Chlorobenzene	108-90-7	25.560	102.000	% Recov	75.000	125.000				08/26/08
LCS	1,2-Dichloroethane-d4(Surr)	17060-07-0	54.000	108.000	% Recov	75.000	125.000				08/26/08
LCS	Toluene-d8(Surr)	2037-26-5	48.920	97.800	% Recov	75.000	125.000				08/26/08
LCS	Toluene	108-88-3	24.270	97.100	% Recov	75.000	125.000				08/26/08
LCS	Trichloroethene	79-01-6	20.130	80.500	% Recov	75.000	125.000				08/26/08

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-146
Sample # W08GR03489
Client ID: B1X218 TRENT WSCF **Matrix:** WATER

Group #: WSCF20081825
Department: Radiochemistry
Sampled: 08/25/08
Received: 08/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415	U	-5.20	pCi/L	+-5.20	pCi/L	1.00	1.0		09/15/08
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		91.7	Percent			1.00	0.0		09/15/08
TC99 by Liquid Scin.											
Tc-99 by Liquid Scin.	14133-76-7	LA-508-421		40.0	pCi/L	+-8.80	pCi/L	1.00	5.7		09/13/08
Tritium by Liq Sct column prep											
Tritium	10028-17-8	LA-508-421		890	pCi/L	+-240	pCi/L	1.00	2.3e+02		09/12/08
Uranium Isotopics by AEA											
Uranium-233/234	U-233/234	LA-508-471		1.00	pCi/L	+-0.290	pCi/L	1.00	0.012		09/17/08
Uranium-235	15117-96-1	LA-508-471		0.0290	pCi/L	+-0.0249	pCi/L	1.00	0.013		09/17/08
Uranium-238	U-238	LA-508-471		0.670	pCi/L	+-0.201	pCi/L	1.00	0.012		09/17/08
U-232 tracer by AEA	U232	LA-508-471		10.0	pCi/L			1.00	0.070		09/17/08

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

J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.(org)
U - Analyzed for but not detected above limiting criteria(inorg)

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

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Radiochemistry**

SDG Number: WSCF20081825
Matrix: WATER
Test: Strontium 89/90

Sample Date: 08/25/08
Receive Date:08/25/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR03489											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Sr-85 Tracer by Beta Counting	SR85	87.2	87.200	% Recov	30.000	105.000				09/15/08
DUP	Strontium-89/90	SR-RAD	U-5.3		RPD			n/a	20.000		09/15/08
SURR	Sr-85 Tracer by Beta Counting	SR85	91.7	91.700	% Recov	30.000	105.000				09/15/08
BATCH QC											
BLANK	Sr-85 Tracer by Beta Counting	SR85	98.6	98.600	% Recov	30.000	105.000				09/15/08
BLANK	Strontium-89/90	10098-97-2	U-2.8	n/a	pCi/L	-10.000	100.000				09/15/08
LCS	Sr-85 Tracer by Beta Counting	SR85	98.5	98.500	% Recov	30.000	105.000				09/15/08
LCS	Strontium-89/90	10098-97-2	132	95.080	% Recov	80.000	120.000				09/15/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20081825
Matrix: WATER
Test: TC99 by Liquid Scin.

Sample Date: 08/13/08
Receive Date:08/13/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR03329											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Tc-99 by Liquid Scin.	14133-76-7	4.6E+01		RPD			0.000	20.000		09/13/08
MS	Tc-99 by Liquid Scin.	14133-76-7	677.6	106.417	% Recov	75.000	125.000				09/13/08
BATCH QC											
BLANK	Tc-99 by Liquid Scin.	14133-76-7	U3.3	n/a	pCi/L	-10.000	10.000				09/13/08
LCS	Tc-99 by Liquid Scin.	14133-76-7	170.2	106.910	% Recov	80.000	120.000				09/13/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Radiochemistry**

SDG Number: WSCF20081825
Matrix: WATER
Test: Tritium by Liq Sct column prep

Sample Date: 08/07/08
Receive Date:08/07/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR03265											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Tritium	10028-17-8	7.8E+02		RPD			10.811	20.000		09/12/08
MS	Tritium	10028-17-8	23696	92.745	% Recov	75.000	125.000				09/12/08
BATCH QC											
BLANK	Tritium	10028-17-8	U2.1E+01	n/a	pCi/L	-10.000	1000.000				09/12/08
LCS	Tritium	10028-17-8	3040.0	89.766	% Recov	80.000	120.000				09/12/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20081825
Matrix: WATER
Test: Uranium Isotopics by AEA

Sample Date: 08/07/08
Receive Date:08/07/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR03265											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	U-232 tracer by AEA	U232	10.22	105.560	% Recov	30.000	105.000				09/17/08
DUP	Uranium-233/234	U-233/234	1.1		RPD			9.524	20.000		09/17/08
DUP	Uranium-235	15117-96-1	6.1e-2		RPD			n/a	20.000		09/17/08
DUP	Uranium-238	U-238	0.91		RPD			18.905	20.000		09/17/08
BATCH QC											
BLANK	U-232 tracer by AEA	U232	10.22	93.550	% Recov	30.000	105.000				09/17/08
BLANK	Uranium-233/234	13966-29-5	U3.2e-2	n/a	pCi/L	-10.000	1000.000				09/17/08
BLANK	Uranium-235	15117-96-1	1.5e-2	0.015	pCi/L	-10.000	1000.000				09/17/08
BLANK	Uranium-238	24678-82-8	2.3e-2	0.023	pCi/L	-10.000	1000.000				09/17/08
LCS	U-232 tracer by AEA	U232	11.35	89.930	% Recov	30.000	105.000				09/17/08
LCS	Uranium-233/234	13966-29-5	n/a	n/a	% Recov	75.000	125.000				09/17/08
LCS	Uranium-238	24678-82-8	22.1	116.592	% Recov	80.000	120.000				09/17/08

M4W41-SLF-08-1075

ATTACHMENT 4

SAMPLE RECEIPT INFORMATION

Consisting of 4 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
Due 9
10/9/08

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 123630/ES10
Group#: 20081825
Project#: F08-146
Proj Mgr: Steve Trent E6-35
Phone: 373-5869

The following samples were received from you on 08/25/08. 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
W08GR03489	B1X218	@2008 @AEA-32 @GPP6010 @H3-33 @IC-30 @SR89_90 @TC99-30 @TPHD-WA @VOA-GPP	TRENT Water	08/25/08

Test Acronym Description

Test Acronym	Description
@2008	ICP-200.8 MS All possible meta
@AEA-32	Uranium Isotopics by AEA
@GPP6010	ICP Metals Analysis, Grd H20 P
@H3-33	Tritium by Liq Sct column prep
@IC-30	Anions by Ion Chromatography
@SR89_90	Strontium 89/90
@TC99-30	TC99 by Liquid Scin.
@TPHD-WA	NWTPH-D TPH Diesel Range (Wa)
@VOA-GPP	VOA Ground Water Protection

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7N	DATA TURNAROUND
Weff, Rust, CAPC	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6454 I-012	K-West Characterization - Groundwater		F08-146		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-585 10		123630ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Waste Sampling & Characterization					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive tie to B1WMW8
20081825

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C	HNO3 to pH <2	HCl to pH <2/Cool~4C	Cool~4C	HNO3 to pH <2	HNO3 to pH <2	HCl to pH <2	None
TYPE OF CONTAINER	aGs*	G/P	aG	P	G/P	G/P	G/P	P
NO. OF CONTAINER(S)	4	1	3	1	1	1	2	1
VOLUME	40mL	500mL	1000mL	500mL	1L	1000mL	1L	250mL
SAMPLE ANALYSIS	VOA - 8260B (TCL) (Trichloroethene)	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	IC Anions - 300.0 (Nitrogen in Nitrate)	Strontium-89,90 – Total Sr;	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	Technetium-99 (Technetium-99)	Tritium - H3 (Tritium)

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME								
B1X218 N08GA3K9	WATER	8-25-8	1215	X	X	X		X	X	X	X
				807801	031628	07851		03008	036008	080008	027994

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[signature]	8-25-8 / 1350	[signature]	8-25-8 / 1350
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
(1)ICP/MS - 200.8 (TAL) {Chromium, Manganese} ICP/MS - 200.8 (Add-on) {Arsenic} ICP Metals - 6010B (TAL) {Iron}
(2)TPH-DieselKerosene Range - WTPH-D {Total petroleum hydrocarbons - kerosene range}
(3)Isotopic Uranium {Uranium-233/234, Uranium-235, Uranium-238}

ICED

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-146-139	PAGE 1 OF 1
COLLECTOR: WOBB, RUST, CANO	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 7N	DATA TURNAROUND: 45 Days / 45 Days
SAMPLING LOCATION: C6454 I-012	PROJECT DESIGNATION: K-West Characterization - Groundwater		SAF NO.: F08-146	AIR QUALITY: ☐	
ICE CHEST NO.: Waste Sampling & Characterization	FIELD LOGBOOK NO.: HNF-N-585 10	ACTUAL SAMPLE DEPTH	COA: 123630ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: ~~Waste Sampling & Characterization~~ ESL KY 8 RH 8-22-08	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive tie to B1WMW8

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C	HNO3 to pH <2	HCl to pH <2/Cool~4C	Cool~4C	HNO3 to pH <2	HNO3 to pH<2	HCl to pH <2	None
TYPE OF CONTAINER	aGs* RH 8-22-08	G/P RH 8-22-08	aG RH 8-22-08	P	G/P RH 8-22-08	G/P RH 8-22-08	G/P RH 8-22-08	P RH 8-22-08
NO. OF CONTAINER(S)	4	1	3	1	1	1	2	1
VOLUME	40mL	500mL	1000mL	500mL	1L	1000mL	1L	250mL
SAMPLE ANALYSIS	VOA - 8260B (TCL) (Trichloroethene)	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	IC Anions - 300.0 (Nitrogen in Nitrate)	Strontium-89,90 -- Total Sr;	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	Technetium-99 (Technetium-99)	Tritium - H3 (Tritium)

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME											
B1X218 W086W2B4589	WATER	8-25-8	1215				X							
							031628							

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Dwight / Dl Widrig	DATE/TIME: 8-25-8/ 1320	RECEIVED BY/STORED IN: [illegible]	DATE/TIME: 8-25-8/ 1320
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
(1)ICP/MS - 200.8 (TAL) {Chromium, Manganese} ICP/MS - 200.8 (Add-on) {Arsenic} ICP Metals - 6010B (TAL) {Iron}
(2)TPH-DieselKerosene Range - WTPH-D {Total petroleum hydrocarbons - kerosene range}
(3)Isotopic Uranium {Uranium-233/234, Uranium-235, Uranium-238}

ICED

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME