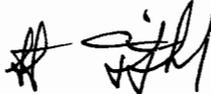


Fluor Hanford
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FLUOR

Memorandum

To: H. Hampt E6-35 Date: M4W41-SLF-08-518
May 13, 2008

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

cc: w/Attachments
T. F. Dale S3-30 J. E. Trechter S3-30
H. K. Meznarich S3-30 S. J. Trent E6-35
P. D. Mix S3-30 File/LB

Subject: FINAL RESULTS FOR SAMPLE DELIVERY GROUP WSCF20080637 – SAF NUMBER F08-073

Reference: (1) Groundwater Protection Program-Letter of Instruction, FH-EIS-2003-MEM-001, October 31, 2002
(2) HNF-SD-CD-QAPP-017, Rev. 8, Waste Sampling & Characterization Facility Quality Assurance Plan

This letter contains the following information for sample delivery group WSCF20080637:

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

SLF/grf

Attachments 4

M4W41-SLF-08-518

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20080637
Data Deliverable Date: 12-may-2008
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
F08-073	B1TNR1	W08GR00750	WATER
	B1V581	W08GR00751	WATER

M4W41-SLF-08-518

ATTACHMENT 2

NARRATIVE

Consisting of 4 pages
Including cover page

Introduction

Two S&GRP samples were received at the WSCF Laboratory on March 27, 2008. Samples were analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Groundwater Remediation Program – Letter of Instruction*, referenced in the cover letter.

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

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

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report*, pages 15 through 17, for a complete listing of approved analytical methods.

Inorganic Comments

Ammonia – 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 20 for QC details.

All QC controls are within the established limits.

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 21 through 22 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.
- Chloride Relative Percent Difference (RPD) exceeded established laboratory limits due to low sample concentration. No flag issued.

All other QC controls are within the established limits.

Cyanide – 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 GRP Letter of Instruction. See page 23 for QC details.

All QC controls are within the established limits.

Hexavalent Chromium – 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 the GRP Letter of Instruction. See page 24 for QC details. Analytical Note(s):

- Duplicate, Matrix Spike and Matrix Spike Duplicate were analyzed on sample# B1V170 (SDG# 20080641, SAF# F07-086).

All QC controls are within the established limits.

ICP-AES Metals – The hold time requirements for this analysis were 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 25 through 27 for QC details. Analytical Note(s):

- Aluminum, Calcium, Iron, Magnesium and Sodium contamination detected in the Blank was evaluated and affected sample results were C flagged.
- Sample pH = 5 as received.

All other QC controls are within the established limits.

ICP-MS Metals – The hold time requirements for this analysis were 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 28 through 31 for QC details. Analytical Note(s):

- Zinc contamination detected in the Blank was evaluated and sample result was C flagged.

All other QC controls are within the established limits.

Organic Comments

Alcohol/Glycols - 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 40 for QC details.

All QC controls are within the established limits.

Semi-VOA – The hold time requirements for this analysis were 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 pages 41 through 46 for QC details.

All QC controls are within the established limits.

TPHD-WA – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. See page 47 for QC details.

All QC controls are within the established limits.

VOA – The holding 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 48 through 50 for QC details.

- Matrix Spike and Matrix Spike Duplicate analyzed on sample B1P147 (SDG# 20080688, SAF# F07-052)

All QC controls are within the established limits.

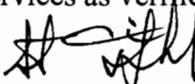
Radiochemistry Comments

Rad Chem – There are no hold times associated with WSCF’s radiochemical methods. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. See pages 54 through 62 for QC details. Analytical Note(s):

- Gross Alpha/Gross Beta – Duplicate QC was analyzed on sample# B1TPH2 (SDG# 20080742, SAF# F08-087).
- Strontium-89/90 and 85 (tracer) – Duplicate QC was analyzed on sample# B1P0T6 (SDG# 20080626, SAF# F07-052).
- Technetium-99 – Duplicate and Matrix Spike were analyzed on sample# B1P0T6 (SDG# 20080626, SAF# F07-052)
- Plutonium-242 (tracer) – Duplicate recovery slightly exceeded established laboratory limits. No flag issued.

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


John E. Trechter
WSCF Client Services

M4W41-SLF-08-518

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 56 pages
Including cover page

WSCF
ANALYTICAL RESULTS REPORT

for
Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical: *Steph S. Fitzgerald 5/14/08*
Client Services: *John P.D. Nix 5/13/2008*

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.

Contract#: FH-EIS-2003-MEM-001
Report#: WSCF20080637
Report Date: 13-may-2008
Report WGPP/ver. 5.2
Groundwater Remediation Program

Department: Inorganic

W13q Worklist/Batch/QC Report for Group# WSCF20080637

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
35744	2	36147	40444	BLANK		Anions by Ion Chromatography
35744	8	36147	40444	BLANK		Anions by Ion Chromatography
35744	3	36147	40444	LCS		Anions by Ion Chromatography
35744	5	36147	40444	DUP	W08GR00750	Anions by Ion Chromatography
35744	6	36147	40444	MS	W08GR00750	Anions by Ion Chromatography
35744	7	36147	40444	MSD	W08GR00750	Anions by Ion Chromatography
35744	4	36147	40444	SAMPLE	W08GR00750	Anions by Ion Chromatography
35744	7	36147	40444	SPK-RPD	W08GR00750	Anions by Ion Chromatography
35806	9	36211	40508	BLANK		Cyanide by Midi/Spectrophotom
35806	10	36211	40508	LCS		Cyanide by Midi/Spectrophotom
35806	13	36211	40508	MS	W08GR00750	Cyanide by Midi/Spectrophotom
35806	14	36211	40508	MSD	W08GR00750	Cyanide by Midi/Spectrophotom
35806	12	36211	40508	SAMPLE	W08GR00750	Cyanide by Midi/Spectrophotom
35806	14	36211	40508	SPK-RPD	W08GR00750	Cyanide by Midi/Spectrophotom
35806	17	36211	40508	MS	W08P001759	Cyanide by Midi/Spectrophotom
35806	18	36211	40508	MSD	W08P001759	Cyanide by Midi/Spectrophotom
35806	18	36211	40508	SPK-RPD	W08P001759	Cyanide by Midi/Spectrophotom
35811	1	36216	40512	BLANK		ICP-200.8 MS All possible meta
35811	2	36216	40512	LCS		ICP-200.8 MS All possible meta
		36216	40512	MS	W080000153	ICP-200.8 MS All possible meta
		36216	40512	MSD	W080000153	ICP-200.8 MS All possible meta
35811	4	36216	40512	MS	W08GR00750	ICP-200.8 MS All possible meta
35811	5	36216	40512	MSD	W08GR00750	ICP-200.8 MS All possible meta
35811	3	36216	40512	SAMPLE	W08GR00750	ICP-200.8 MS All possible meta
35811	5	36216	40512	SPK-RPD	W08GR00750	ICP-200.8 MS All possible meta
35882	2	36296	40564	BLANK		Ammonia (N) by IC
35882	8	36296	40564	BLANK		Ammonia (N) by IC
35882	3	36296	40564	LCS		Ammonia (N) by IC
35882	5	36296	40564	DUP	W08GR00750	Ammonia (N) by IC
35882	6	36296	40564	MS	W08GR00750	Ammonia (N) by IC
35882	7	36296	40564	MSD	W08GR00750	Ammonia (N) by IC
35882	4	36296	40564	SAMPLE	W08GR00750	Ammonia (N) by IC
35882	7	36296	40564	SPK-RPD	W08GR00750	Ammonia (N) by IC
35911	2	36322	40589	BLANK		Hexavalent chromium
35911	3	36322	40589	LCS		Hexavalent chromium
35911	8	36322	40589	SAMPLE	W08GR00750	Hexavalent chromium
35911	5	36322	40589	DUP	W08GR00759	Hexavalent chromium
35911	6	36322	40589	MS	W08GR00759	Hexavalent chromium
35911	7	36322	40589	MSD	W08GR00759	Hexavalent chromium
35911	7	36322	40589	SPK-RPD	W08GR00759	Hexavalent chromium
35960	1	36375	40749	BLANK		ICP Metals Analysis, Grd H20 P
35960	2	36375	40749	LCS		ICP Metals Analysis, Grd H20 P
35960	19	36375	40749	MS	W08GR00750	ICP Metals Analysis, Grd H20 P
35960	20	36375	40749	MSD	W08GR00750	ICP Metals Analysis, Grd H20 P
35960	18	36375	40749	SAMPLE	W08GR00750	ICP Metals Analysis, Grd H20 P
35960	20	36375	40749	SPK-RPD	W08GR00750	ICP Metals Analysis, Grd H20 P
35960	4	36375	40749	MS	W08GR00916	ICP Metals Analysis, Grd H20 P

35960	5	36375	40749	MSD	W08GR00916	ICP Metals Analysis, Grd H20 P
35960	5	36375	40749	SPK-RPD	W08GR00916	ICP Metals Analysis, Grd H20 P

Department: Organic

W13q Worklist/Batch/QC Report for Group# WSCF20080637

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
			40527	BLANK		SW-846 8270C Semi-Vols
			40527	LCS		SW-846 8270C Semi-Vols
			40527	MS	W08GR00750	SW-846 8270C Semi-Vols
			40527	MSD	W08GR00750	SW-846 8270C Semi-Vols
			40527	SAMPLE	W08GR00750	SW-846 8270C Semi-Vols
			40527	SPK-RPD	W08GR00750	SW-846 8270C Semi-Vols
			40527	SURR	W08GR00750	SW-846 8270C Semi-Vols
			40648	BLANK		NWTPH-D TPH Diesel Range (Wa)
			40648	LCS		NWTPH-D TPH Diesel Range (Wa)
			40648	MS	W08GR00750	NWTPH-D TPH Diesel Range (Wa)
			40648	MSD	W08GR00750	NWTPH-D TPH Diesel Range (Wa)
			40648	SAMPLE	W08GR00750	NWTPH-D TPH Diesel Range (Wa)
			40648	SURR	W08GR00750	NWTPH-D TPH Diesel Range (Wa)
			40648	MS	W08P001759	NWTPH-D TPH Diesel Range (Wa)
			40648	MSD	W08P001759	NWTPH-D TPH Diesel Range (Wa)
			40648	SPK-RPD	W08P001759	NWTPH-D TPH Diesel Range (Wa)
			40672	BLANK		VOA Ground Water Protection
			40672	LCS		VOA Ground Water Protection
			40672	SAMPLE	W08GR00750	VOA Ground Water Protection
			40672	SURR	W08GR00750	VOA Ground Water Protection
			40672	SAMPLE	W08GR00751	VOA Ground Water Protection
			40672	SURR	W08GR00751	VOA Ground Water Protection
			40672	MS	W08GR00843	VOA Ground Water Protection
			40672	MSD	W08GR00843	VOA Ground Water Protection
			40672	SPK-RPD	W08GR00843	VOA Ground Water Protection
36262	1	36678	41001	BLANK		Alcohols, Glycols - 8015
36262	2	36678	41001	LCS		Alcohols, Glycols - 8015
36262	4	36678	41001	DUP	W08GR00750	Alcohols, Glycols - 8015
36262	5	36678	41001	MS	W08GR00750	Alcohols, Glycols - 8015
36262	6	36678	41001	MSD	W08GR00750	Alcohols, Glycols - 8015
36262	3	36678	41001	SAMPLE	W08GR00750	Alcohols, Glycols - 8015
36262	6	36678	41001	SPK-RPD	W08GR00750	Alcohols, Glycols - 8015

W13q Worklist/Batch/QC Report for Group# WSCF20080637

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
35810	1	36218	40526	BLANK		TC99 by Liquid Scin.
35810	4	36218	40526	LCS		TC99 by Liquid Scin.
35810	3	36218	40526	DUP	W08GR00729	TC99 by Liquid Scin.
35810	2	36218	40526	MS	W08GR00729	TC99 by Liquid Scin.
35810	6	36218	40526	SAMPLE	W08GR00750	TC99 by Liquid Scin.
35847	1	36253	40597	BLANK		Strontium 89/90
35847	2	36253	40597	LCS		Strontium 89/90
35847	3	36253	40597	DUP	W08GR00729	Strontium 89/90
35847	6	36253	40597	SAMPLE	W08GR00750	Strontium 89/90
35847	7	36253	40597	SURR	W08GR00750	Strontium 89/90
35925	1	36340	40689	BLANK		Uranium Isotopics by AEA
35925	2	36340	40689	LCS		Uranium Isotopics by AEA
35925	3	36340	40689	DUP	W08GR00750	Uranium Isotopics by AEA
35925	4	36340	40689	SAMPLE	W08GR00750	Uranium Isotopics by AEA
35925	5	36340	40689	SURR	W08GR00750	Uranium Isotopics by AEA
35926	1	36341	40796	BLANK		Plutonium Isotopics by AEA
35926	2	36341	40796	LCS		Plutonium Isotopics by AEA
35926	3	36341	40796	DUP	W08GR00750	Plutonium Isotopics by AEA
35926	4	36341	40796	SAMPLE	W08GR00750	Plutonium Isotopics by AEA
35926	5	36341	40796	SURR	W08GR00750	Plutonium Isotopics by AEA
35927	1	36342	40798	BLANK		Americium by AEA
35927	2	36342	40798	LCS		Americium by AEA
35927	3	36342	40798	DUP	W08GR00750	Americium by AEA
35927	4	36342	40798	SAMPLE	W08GR00750	Americium by AEA
35927	5	36342	40798	SURR	W08GR00750	Americium by AEA
35958	1	36373	40856	BLANK		Gross Alpha/Gross Beta (AB32)
35958	2	36373	40856	LCS		Gross Alpha/Gross Beta (AB32)
35958	8	36373	40856	SAMPLE	W08GR00750	Gross Alpha/Gross Beta (AB32)
35958	3	36373	40856	DUP	W08GR00946	Gross Alpha/Gross Beta (AB32)
35754	1	36160	40860	BLANK		Gamma Energy Analysis-grd H2O
35754	2	36160	40860	LCS		Gamma Energy Analysis-grd H2O
35754	3	36160	40860	DUP	W08GR00750	Gamma Energy Analysis-grd H2O
35754	4	36160	40860	SAMPLE	W08GR00750	Gamma Energy Analysis-grd H2O
36174	1	36591	40932	BLANK		Tritium by Liq Sct column prep
36174	2	36591	40932	LCS		Tritium by Liq Sct column prep
36174	4	36591	40932	DUP	W08GR00750	Tritium by Liq Sct column prep
36174	3	36591	40932	MS	W08GR00750	Tritium by Liq Sct column prep
36174	5	36591	40932	SAMPLE	W08GR00750	Tritium by Liq Sct column prep
36241	1	36656	41009	BLANK		Neptunium by AEA
36241	2	36656	41009	LCS		Neptunium by AEA
36241	3	36656	41009	DUP	W08GR00750	Neptunium by AEA
36241	8	36656	41009	MS	W08GR00750	Neptunium by AEA
36241	6	36656	41009	MSD	W08GR00750	Neptunium by AEA
36241	7	36656	41009	SAMPLE	W08GR00750	Neptunium by AEA

36241	8	36656	41009	SPK-RPD	W08GR00750	Neptunium by AEA
36241	5	36656	41009	MS	W08GR00998	Neptunium by AEA
36241	10	36656	41009	MS	W08GR01072	Neptunium by AEA

WSCF METHOD REFERENCES REPORT

Department: Inorganic

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

LA-265-403	LA-265-403: Hexavalent Chromium analysis by Spectrophotometer EPA SW-846 7196A HEIS 7196_CR6 Hexavalent Chromium
LA-503-401	LA-503-401: ANALYSIS OF CATIONS BY ION CHROMATOGRAPHY EPA-600/4-86-024 300.7 HEIS 300.7_CATIONS_IC Dissolved Sodium, Ammonium, Potassium, and Calcium in Wet Deposition by Chemical Determination of Ammonium by Ion Chromatography
LA-505-411	LA-505-411: ELEMENTAL ANALYSIS BY INDUCTIVELY COUPLED PLASMA ATOMIC EMISSION SPE HEIS 6010_METALS_ICP Inductively Coupled Plasma-Atomic Emission Spectrometry
LA-505-412	LA-505-412: DETERMINATION OF TRACE ELEMENTS IN WATERS AND WASTES BY INDUCTIVELY EPA-600/R-94-111 200.8 HEIS 200.8_METALS_ICPMS HEIS RADISOTOPES_ICPMS DETERMINATION OF TRACE ELEMENTS IN WATERS AND WASTES BY INDUCTIVELY COUPLED PLASMA Inductively Coupled Plasma - Mass Spectrometry Radioisotopes by ICP/MS
LA-533-410	LA-533-410: ANION ANALYSIS BY ION CHROMATOGRAPHY EPA-600/R-94-111 300.0 HEIS 300.0_ANIONS_IC DETERMINATION OF INORGANIC ANIONS BY ION CHROMATOGRAPHY Determination of Inorganic Anions by Ion Chromatography
LA-695-402	LA-695-402: DETERMINATION OF CYANIDE BY MIDDISTILLATION AND SPECTROPHOTOMETRIC EPA-600/4-79-020 335.2 HEIS 335.2_CYANIDE Cyanide, Total Cyanide, Total

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

Report Date: 13-may-2008
 Report#: WSCF20080637
 Report WGPPM/5.2

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-523-456	LA-523-456: SEMIVOLATILE SAMPLE ANALYSIS BY SW-846, METHOD 8270C EPA SW-846 8000B DETERMINATIVE CHROMATOGRAPHIC SEPARATIONS EPA SW-846 8270C SEMIVOLATILE ORGANIC COMPOUNDS BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS) HEIS 8270_SVOA_GCMS Semivolatile 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
Organics	Organics - Alcohols, Glycols EPA SW-846 8015B Nonhalogenated Organics Using GC/FID

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

Report Date: 13-may-2008
Report#: WSCF20080637
Report WGPPM/5.2

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 Fontium 89/90
LA-508-421	LA-508-421: OPERATION OF THE TRI-CARB MODEL 2500TR LIQUID SCINTILLATION ANALYZER HEIS ALPHA_LSC A/B Liquid Scintillation HEIS BETA_LSC A/B Liquid Scintillation 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 PUIISO_IE_PRECIP_AEA Plutonium by Alpha Energy Analysis HEIS RAISO_AEA Radium-226
LA-508-481	LA-508-481: GAMMA ENERGY ANALYSIS USING PROCOUNT SOFTWARE HEIS GAMMA_GS Gamma Emmission 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
SAF Number: F08-073
Sample # W08GR00750
Client ID: BITNRI

TRENT
WSCF
Matrix: WATER

Group #: WSCF20080637
Department: Inorganic
Sampled: 03/27/08
Received: 03/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
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Anions by Ion Chromatography

Fluoride	16984-48-8	LA-533-410	DU	< 0.0120	mg/L			2.00	0.012		03/27/08
Chloride	16887-00-6	LA-533-410	BD	0.110	mg/L			2.00	0.060		03/27/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0200	mg/L			2.00	0.020		03/27/08
Nitrogen in Nitrate	NO3-N	LA-533-410	BD	0.145	mg/L			2.00	0.010		03/27/08
Phosphate (P) by IC	PO4-P	LA-533-410	DU	< 0.0800	mg/L			2.00	0.080		03/27/08
Sulfate	14808-79-8	LA-533-410	DU	< 0.140	mg/L			2.00	0.14		03/27/08

Cyanide

Cyanide	57-12-5	LA-695-402	U	< 4.00	ug/L			1.00	4.0		04/01/08
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Hexavalent Chromium

Hexavalent Chromium	18540-29-9	LA-265-403	U	< 2.00e-03	mg/L			1.00	2.0e-03		03/27/08
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ICP Metals Analysis, Grd H2O P Prep

ICP Metals Analysis, Grd H2O P

Aluminum	7429-90-5	LA-505-411	U	< 30.0	ug/L			1.00	30		04/16/08
Iron	7439-89-6	LA-505-411	C	10.9	ug/L			1.00	9.0		04/16/08
Magnesium	7439-95-4	LA-505-411	C	6.60	ug/L			1.00	6.0		04/16/08
Potassium	7440-09-7	LA-505-411	C	71.5	ug/L			1.00	45		04/16/08
Sodium	7440-23-5	LA-505-411	C	28.2	ug/L			1.00	27		04/16/08
Calcium	7440-70-2	LA-505-411	C	94.6	ug/L			1.00	34		04/16/08
Lithium	7439-93-2	LA-505-411	U	< 4.00	ug/L			1.00	4.0		04/16/08
Beryllium	7440-41-7	LA-505-411	U	< 4.00	ug/L			1.00	4.0		04/16/08
Boron	7440-42-8	LA-505-411	U	< 8.00	ug/L			1.00	8.0		04/16/08
Silicon	7440-21-3	LA-505-411	U	176	ug/L			1.00	38		04/16/08
Phosphorus	7723-14-0	LA-505-411	U	< 79.0	ug/L			1.00	79		04/16/08

ICP-200.8 MS All possible meta Prep

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg)
TP Err = Total Propagated Error U - Analyzed for but not detected above limiting criteria.
DF = Dilution Factor U - Analyzed for but not detected above limiting criteria.

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-073
Sample #: W08GR00750
Client ID: B1TNR1

Group #: WSCF20080637
Department: Inorganic
Sampled: 03/27/08
Received: 03/27/08

Matrix: WATER
Method: TREN
WSCF

Test Performed
ICP-200.8 MS All possible meta

	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Manganese	7439-96-5	LA-505-412	U	< 0.100	ug/L			1.00	0.100		04/02/08
Nickel	7440-02-0	LA-505-412	U	< 0.200	ug/L			1.00	0.200		04/02/08
Silver	7440-22-4	LA-505-412	U	< 0.100	ug/L			1.00	0.100		04/02/08
Antimony	7440-36-0	LA-505-412	U	< 0.300	ug/L			1.00	0.300		04/02/08
Barium	7440-39-3	LA-505-412	U	< 0.200	ug/L			1.00	0.200		04/02/08
Cadmium	7440-43-9	LA-505-412	U	< 0.100	ug/L			1.00	0.100		04/02/08
Chromium	7440-47-3	LA-505-412	U	< 0.500	ug/L			1.00	0.500		04/02/08
Cobalt	7440-48-4	LA-505-412	U	< 0.0500	ug/L			1.00	0.0500		04/02/08
Copper	7440-50-8	LA-505-412	U	< 0.100	ug/L			1.00	0.100		04/02/08
Vanadium	7440-62-2	LA-505-412	U	< 0.200	ug/L			1.00	0.200		04/02/08
Zinc	7440-66-6	LA-505-412	C	2.25	ug/L			1.00	0.800		04/02/08
Lead	7439-92-1	LA-505-412	U	0.110	ug/L			1.00	0.100		04/02/08
Mercury	7439-97-6	LA-505-412	U	< 0.0500	ug/L			1.00	0.0500		04/02/08
Uranium	7440-61-1	LA-505-412	U	< 0.0500	ug/L			1.00	0.0500		04/02/08
Arsenic	7440-38-2	LA-505-412	U	< 0.400	ug/L			1.00	0.400		04/02/08
Selenium	7782-49-2	LA-505-412	U	< 0.300	ug/L			1.00	0.300		04/02/08
Thallium	7440-28-0	LA-505-412	U	< 0.100	ug/L			1.00	0.100		04/02/08
Strontium	7440-24-6	LA-505-412	U	< 0.100	ug/L			1.00	0.100		04/02/08
Nitrogen in ammonium											
Nitrogen in ammonium	NH4-N	LA-503-401	U	< 9.32e-03	mg/L			1.00	9.3e-03		04/02/08

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg)
TP Err = Total Propagated Error U - Analyzed for but not detected above limiting criteria.
DF = Dilution Factor U - Analyzed for but not detected above limiting criteria.

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2
 Groundwater Remediation Program

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080637
 Matrix: WATER
 Test: Ammonia (N) by IC

Sample Date: 03/27/08
 Receive Date: 03/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00750											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Ammonia (N) by IC	7664-41-7	9.6e-3		RPD			n/a	20.000		04/02/08
MS	Ammonia (N) by IC	7664-41-7	0.5471	109.859	% Recov	75.000	125.000				04/02/08
MSD	Ammonia (N) by IC	7664-41-7	0.532	106.827	% Recov	75.000	125.000				04/03/08
SPK-RPD	Ammonia (N) by IC	7664-41-7	106.827		RPD			2.799	20.000		04/03/08
BATCH QC											
BLANK	Ammonia (N) by IC	7664-41-7	<9.32e-3	n/a	mg/L	0.000	0.002			U	04/02/08
BLANK	Ammonia (N) by IC	7664-41-7	<9.32e-3	n/a	mg/L	0.000	0.002			U	04/03/08
LCS	Ammonia (N) by IC	7664-41-7	92.7566	92.757	% Recov	80.000	120.000				04/02/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080637

Matrix: WATER

Test: Anions by Ion Chromatography

Sample Date: 03/27/08

Receive Date: 03/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
DUP	Chloride	16887-00-6	7.93e-2		RPD			32.169	20.000 *		03/27/08
DUP	Fluoride	16984-48-8	< 1.2e-2		RPD			n/a	20.000	U	03/27/08
DUP	Nitrogen in Nitrite	NO2-N	< 2e-2		RPD			n/a	20.000	U	03/27/08
DUP	Nitrogen in Nitrate	NO3-N	0.1407		RPD			2.872	20.000		03/27/08
DUP	Phosphate (P) by IC	PO4-P	< 8e-2		RPD			n/a	20.000	U	03/27/08
DUP	Sulfate	14808-79-8	< 0.14		RPD			n/a	20.000	U	03/27/08
MS	Chloride	16887-00-6	0.96955	97.442	% Recov	75.000	125.000				03/27/08
MS	Fluoride	16984-48-8	0.4751	96.369	% Recov	75.000	125.000				03/27/08
MS	Nitrogen in Nitrite	NO2-N	0.4925	100.102	% Recov	75.000	125.000				03/27/08
MS	Nitrogen in Nitrate	NO3-N	0.44425	99.608	% Recov	75.000	125.000				03/27/08
MS	Phosphate (P) by IC	PO4-P	0.8507	88.892	% Recov	75.000	125.000				03/27/08
MS	Sulfate	14808-79-8	1.9485	99.413	% Recov	75.000	125.000				03/27/08
MSD	Chloride	16887-00-6	0.966	97.085	% Recov	75.000	125.000				03/27/08
MSD	Fluoride	16984-48-8	0.46755	94.838	% Recov	75.000	125.000				03/27/08
MSD	Nitrogen in Nitrite	NO2-N	0.4963	100.874	% Recov	75.000	125.000				03/27/08
MSD	Nitrogen in Nitrate	NO3-N	0.45405	101.805	% Recov	75.000	125.000				03/27/08
MSD	Phosphate (P) by IC	PO4-P	0.8337	87.116	% Recov	75.000	125.000				03/27/08
MSD	Sulfate	14808-79-8	1.95825	99.911	% Recov	75.000	125.000				03/27/08
SPK-RPD	Chloride	16887-00-6	97.085		RPD			0.367	20.000		03/27/08
SPK-RPD	Fluoride	16984-48-8	94.838		RPD			1.601	20.000		03/27/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	100.874		RPD			0.768	20.000		03/27/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	101.805		RPD			2.182	20.000		03/27/08
SPK-RPD	Phosphate (P) by IC	PO4-P	87.116		RPD			2.018	20.000		03/27/08
SPK-RPD	Sulfate	14808-79-8	99.911		RPD			0.500	20.000		03/27/08

Lab ID: W08GR00750
 BATCH QC ASSOCIATED WITH SAMPLE

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080637

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	<3e-2	n/a	mg/L	0.000	0.030			U	03/27/08	
BLANK	Chloride	16887-00-6	<3e-2	n/a	mg/L	0.000	0.030			U	03/27/08	
BLANK	Fluoride	16984-48-8	<6e-3	n/a	mg/L	0.000	0.030			U	03/27/08	
BLANK	Fluoride	16984-48-8	<6e-3	n/a	mg/L	0.000	0.030			U	03/27/08	
BLANK	Nitrogen in Nitrite	NO2-N	<1e-2	n/a	mg/L	0.000	0.020			U	03/27/08	
BLANK	Nitrogen in Nitrite	NO2-N	<1e-2	n/a	mg/L	0.000	0.020			U	03/27/08	
BLANK	Nitrogen in Nitrate	NO3-N	<5e-3	n/a	mg/L	0.000	0.040			U	03/27/08	
BLANK	Nitrogen in Nitrate	NO3-N	<5e-3	n/a	mg/L	0.000	0.040			U	03/27/08	
BLANK	Phosphate (P) by IC	PO4-P	<4e-2	n/a	mg/L	0.000	0.200			U	03/27/08	
BLANK	Phosphate (P) by IC	PO4-P	<4e-2	n/a	mg/L	0.000	0.200			U	03/27/08	
BLANK	Sulfate	14808-79-8	<7e-2	n/a	mg/L	0.000	0.200			U	03/27/08	
BLANK	Sulfate	14808-79-8	<7e-2	n/a	mg/L	0.000	0.200			U	03/27/08	
LCS	Chloride	16887-00-6	198.0381	98.526	% Recov	80.000	120.000				03/27/08	
LCS	Fluoride	16984-48-8	101.0891	101.495	% Recov	80.000	120.000				03/27/08	
LCS	Nitrogen in Nitrite	NO2-N	99.7052	100.307	% Recov	80.000	120.000				03/27/08	
LCS	Nitrogen in Nitrate	NO3-N	90.6761	100.639	% Recov	80.000	120.000				03/27/08	
LCS	Phosphate (P) by IC	PO4-P	189.575	98.022	% Recov	80.000	120.000				03/27/08	
LCS	Sulfate	14808-79-8	394.0526	99.508	% Recov	80.000	120.000				03/27/08	

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080637

Matrix: WATER

Test: Cyanide by Midi/Spectrophotom

Sample Date: 03/27/08

Receive Date: 03/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00750											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Cyanide by Midi/Spectrophotom	57-12-5	37.9	94.750	% Recov	75.000	125.000				04/01/08
MSD	Cyanide by Midi/Spectrophotom	57-12-5	36.8	92.000	% Recov	75.000	125.000				04/01/08
SPK-RPD	Cyanide by Midi/Spectrophotom	57-12-5	92.000		RPD			2.945	20.000		04/01/08
Lab ID: W08P001759											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Cyanide by Midi/Spectrophotom	57-12-5	36.8	92.000	% Recov	75.000	125.000				04/01/08
MSD	Cyanide by Midi/Spectrophotom	57-12-5	35.8	89.500	% Recov	75.000	125.000				04/01/08
SPK-RPD	Cyanide by Midi/Spectrophotom	57-12-5	89.500		RPD			2.755	20.000		04/01/08
BATCH QC											
BLANK	Cyanide by Midi/Spectrophotom	57-12-5	< 4	n/a	ug/L	-4.000	4.000			U	04/01/08
LCS	Cyanide by Midi/Spectrophotom	57-12-5	49.5	99.000	% Recov	85.000	115.000				04/01/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080637
 Matrix: WATER
 Test: Hexavalent chromium

Sample Date: 03/27/08
 Receive Date: 03/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00759											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Hexavalent chromium	18540-29-9	0.0591		RPD			2.051	15.000		03/27/08
MS	Hexavalent chromium	18540-29-9	0.0531	99.067	% Recov	85.000	115.000				03/27/08
MSD	Hexavalent chromium	18540-29-9	0.0531	99.067	% Recov	85.000	115.000				03/27/08
SPK-RPD	Hexavalent chromium	18540-29-9	99.067		RPD			0.000	20.000		03/27/08
BATCH QC											
BLANK	Hexavalent chromium	18540-29-9	<0.002	n/a	mg/L	0.000	2.000			U	03/27/08
LCS	Hexavalent chromium	18540-29-9	0.0477	94.643	% Recov	80.000	120.000				03/27/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080637

Matrix: WATER

Test: ICP Metals Analysis, Grd H2O P

Sample Date: 03/27/08

Receive Date: 03/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MS	Aluminum	7429-90-5	993.7	99.370	% Recov	75.000	125.000				04/16/08
MS	Boron	7440-42-8	1028	102.800	% Recov	70.000	130.000				04/16/08
MS	Beryllium	7440-41-7	546.9	109.380	% Recov	75.000	125.000				04/16/08
MS	Calcium	7440-70-2	1017.4	101.740	% Recov	75.000	125.000				04/16/08
MS	Iron	7439-89-6	1018.1	101.810	% Recov	75.000	125.000				04/16/08
MS	Potassium	7440-09-7	10658.5	106.585	% Recov	75.000	125.000				04/16/08
MS	Lithium	7439-93-2	501.9	100.380	% Recov	70.000	130.000				04/16/08
MS	Magnesium	7439-95-4	1001.4	100.140	% Recov	75.000	125.000				04/16/08
MS	Sodium	7440-23-5	1029.8	102.980	% Recov	75.000	125.000				04/16/08
MS	Phosphorus	7723-14-0	990.8	99.080	% Recov	70.000	130.000				04/16/08
MS	Silicon	7440-21-3	977.7	97.770	% Recov	70.000	130.000				04/16/08
MSD	Aluminum	7429-90-5	1022	102.200	% Recov	75.000	125.000				04/16/08
MSD	Boron	7440-42-8	1032	103.200	% Recov	75.000	125.000				04/16/08
MSD	Beryllium	7440-41-7	558.1	111.620	% Recov	75.000	125.000				04/16/08
MSD	Calcium	7440-70-2	1029.4	102.940	% Recov	75.000	125.000				04/16/08
MSD	Iron	7439-89-6	1039.1	103.910	% Recov	75.000	125.000				04/16/08
MSD	Potassium	7440-09-7	10828.5	108.285	% Recov	75.000	125.000				04/16/08
MSD	Lithium	7439-93-2	514.3	102.860	% Recov	75.000	125.000				04/16/08
MSD	Magnesium	7439-95-4	1012.4	101.240	% Recov	75.000	125.000				04/16/08
MSD	Sodium	7440-23-5	1058.8	105.880	% Recov	75.000	125.000				04/16/08
MSD	Phosphorus	7723-14-0	1017	101.700	% Recov	75.000	125.000				04/16/08
MSD	Silicon	7440-21-3	1048.7	104.870	% Recov	75.000	125.000				04/16/08
SPK-RPD	Aluminum	7429-90-5	102.200		RPD			2.808	20.000		04/16/08
SPK-RPD	Boron	7440-42-8	103.200		RPD			0.388	20.000		04/16/08
SPK-RPD	Beryllium	7440-41-7	111.620		RPD			2.027	20.000		04/16/08
SPK-RPD	Calcium	7440-70-2	102.940		RPD			1.173	20.000		04/16/08

Lab ID: W08GR00750
 BATCH QC ASSOCIATED WITH SAMPLE

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080637

Matrix: WATER

Test: ICP Metals Analysis, Grd H20 P

Sample Date: 03/27/08
Receive Date: 03/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SPK-RPD	Iron	7439-89-6	103.910		RPD			2.042	20.000		04/16/08
SPK-RPD	Potassium	7440-09-7	108.285		RPD			1.582	20.000		04/16/08
SPK-RPD	Lithium	7439-93-2	102.860		RPD			2.440	20.000		04/16/08
SPK-RPD	Magnesium	7439-95-4	101.240		RPD			1.092	20.000		04/16/08
SPK-RPD	Sodium	7440-23-5	105.880		RPD			2.777	20.000		04/16/08
SPK-RPD	Phosphorus	7723-14-0	101.700		RPD			2.610	20.000		04/16/08
SPK-RPD	Silicon	7440-21-3	104.870		RPD			7.008	20.000		04/16/08
<p>Lab ID: W08GR00916 BATCH QC ASSOCIATED WITH SAMPLE</p>											
MS	Beryllium	7440-41-7	541.9	108.380	% Recov	75.000	125.000				04/16/08
MS	Calcium	7440-70-2	1510	151.000	% Recov	75.000	125.000				04/16/08
MS	Iron	7439-89-6	1877	187.700	% Recov	75.000	125.000				04/16/08
MS	Potassium	7440-09-7	10795	107.950	% Recov	75.000	125.000				04/16/08
MS	Lithium	7439-93-2	529.7	105.940	% Recov	70.000	130.000				04/16/08
MS	Magnesium	7439-95-4	1250	125.000	% Recov	75.000	125.000				04/16/08
MS	Sodium	7440-23-5	1080	108.000	% Recov	75.000	125.000				04/16/08
MSD	Beryllium	7440-41-7	538.6	107.720	% Recov	75.000	125.000				04/16/08
MSD	Calcium	7440-70-2	120	12.000	% Recov	75.000	125.000				04/16/08
MSD	Iron	7439-89-6	2317	231.700	% Recov	75.000	125.000				04/16/08
MSD	Potassium	7440-09-7	10735	107.350	% Recov	75.000	125.000				04/16/08
MSD	Lithium	7439-93-2	523.5	104.700	% Recov	75.000	125.000				04/16/08
MSD	Magnesium	7439-95-4	1170	117.000	% Recov	75.000	125.000				04/16/08
MSD	Sodium	7440-23-5	930	93.000	% Recov	75.000	125.000				04/16/08
SPK-RPD	Beryllium	7440-41-7	107.720		RPD			0.611	20.000		04/16/08
SPK-RPD	Calcium	7440-70-2	12.000		RPD			170.552	20.000		04/16/08
SPK-RPD	Iron	7439-89-6	231.700		RPD			20.982	20.000		04/16/08
SPK-RPD	Potassium	7440-09-7	107.350		RPD			0.557	20.000		04/16/08
SPK-RPD	Lithium	7439-93-2	104.700		RPD			1.177	20.000		04/16/08
SPK-RPD	Magnesium	7439-95-4	117.000		RPD			6.612	20.000		04/16/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080637
 Matrix: WATER
 Test: ICP Metals Analysis, Grd H20 P

Sample Date: 04/03/08
 Receive Date: 04/03/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SPK-RPD	Sodium	7440-23-5	93.000		RPD			14.925	20.000		04/16/08
BATCH QC											
BLANK	Aluminum	7429-90-5	34.3	34.300	ug/L					U	04/16/08
BLANK	Boron	7440-42-8	<8	n/a	ug/L					U	04/16/08
BLANK	Beryllium	7440-41-7	<4	n/a	ug/L					U	04/16/08
BLANK	Calcium	7440-70-2	41.2	41.200	ug/L						04/16/08
BLANK	Iron	7439-89-6	13	13.000	ug/L					U	04/16/08
BLANK	Potassium	7440-09-7	<45	n/a	ug/L					U	04/16/08
BLANK	Lithium	7439-93-2	<4	n/a	ug/L					U	04/16/08
BLANK	Magnesium	7439-95-4	34.1	34.100	ug/L						04/16/08
BLANK	Sodium	7440-23-5	45.8	45.800	ug/L					U	04/16/08
BLANK	Phosphorus	7723-14-0	<79	n/a	ug/L					U	04/16/08
BLANK	Silicon	7440-21-3	<38	n/a	ug/L					U	04/16/08
LCS	Aluminum	7429-90-5	1038	103.800	% Recov	80.000	120.000				04/16/08
LCS	Boron	7440-42-8	1050	105.000	% Recov	80.000	120.000				04/16/08
LCS	Beryllium	7440-41-7	551.5	110.300	% Recov	80.000	120.000				04/16/08
LCS	Calcium	7440-70-2	1118	111.800	% Recov	80.000	120.000				04/16/08
LCS	Iron	7439-89-6	1037	103.700	% Recov	80.000	120.000				04/16/08
LCS	Potassium	7440-09-7	10930	109.300	% Recov	80.000	120.000				04/16/08
LCS	Lithium	7439-93-2	521.9	104.380	% Recov	80.000	120.000				04/16/08
LCS	Magnesium	7439-95-4	1031	103.100	% Recov	80.000	120.000				04/16/08
LCS	Sodium	7440-23-5	1068	106.800	% Recov	80.000	120.000				04/16/08
LCS	Phosphorus	7723-14-0	1034	103.400	% Recov	80.000	120.000				04/16/08
LCS	Silicon	7440-21-3	1016	101.600	% Recov	80.000	120.000				04/16/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080637

Matrix: WATER

Test: ICP-200.8 MS All possible meta

Sample Date: 04/01/08

Receive Date: 04/01/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W080000153											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Arsenic	7440-38-2	36.93	92.325	% Recov	70.000	130.000				04/02/08
MS	Cadmium	7440-43-9	37.95	94.875	% Recov	70.000	130.000				04/02/08
MS	Chromium	7440-47-3	40.04	100.100	% Recov	70.000	130.000				04/02/08
MS	Copper	7440-50-8	46.61	116.525	% Recov	70.000	130.000				04/02/08
MS	Mercury	7439-97-6	2.13	106.500	% Recov	70.000	130.000				04/02/08
MS	Lead	7439-92-1	43.71	109.275	% Recov	70.000	130.000				04/02/08
MS	Selenium	7782-49-2	34.46	86.150	% Recov	70.000	130.000				04/02/08
MS	Uranium	7440-61-1	42.43	106.075	% Recov	70.000	130.000				04/02/08
MSD	Arsenic	7440-38-2	36.68	91.700	% Recov	70.000	130.000				04/02/08
MSD	Cadmium	7440-43-9	37.51	93.775	% Recov	70.000	130.000				04/02/08
MSD	Chromium	7440-47-3	39.29	98.225	% Recov	70.000	130.000				04/02/08
MSD	Copper	7440-50-8	53.51	133.775	% Recov	70.000	130.000				04/02/08
MSD	Mercury	7439-97-6	2.12	106.000	% Recov	70.000	130.000				04/02/08
MSD	Lead	7439-92-1	47.84	119.600	% Recov	70.000	130.000				04/02/08
MSD	Selenium	7782-49-2	34.1	85.250	% Recov	70.000	130.000				04/02/08
MSD	Uranium	7440-61-1	41.96	104.900	% Recov	70.000	130.000				04/02/08
Lab ID: W08GR00750											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Silver	7440-22-4	40.96	102.400	% Recov	70.000	130.000				04/02/08
MS	Arsenic	7440-38-2	37.03	92.575	% Recov	70.000	130.000				04/02/08
MS	Barium	7440-39-3	38.36	95.900	% Recov	70.000	130.000				04/02/08
MS	Cadmium	7440-43-9	38.19	95.475	% Recov	70.000	130.000				04/02/08
MS	Cobalt	7440-48-4	38.92	97.300	% Recov	70.000	130.000				04/02/08
MS	Chromium	7440-47-3	38.95	97.375	% Recov	70.000	130.000				04/02/08
MS	Copper	7440-50-8	39.04	97.600	% Recov	70.000	130.000				04/02/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080637

Matrix: WATER

Test: ICP-200.8 MS All possible meta

Sample Date: 03/27/08
Receive Date: 03/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MS	Mercury	7439-97-6	2.07	103.500	% Recov	70.000	130.000				04/02/08
MS	Manganese	7439-96-5	38.99	97.475	% Recov	70.000	130.000				04/02/08
MS	Nickel	7440-02-0	38.85	97.125	% Recov	70.000	130.000				04/02/08
MS	Lead	7439-92-1	39.44	98.600	% Recov	70.000	130.000				04/02/08
MS	Antimony	7440-36-0	39.79	99.475	% Recov	70.000	130.000				04/02/08
MS	Selenium	7782-49-2	34.3	85.750	% Recov	70.000	130.000				04/02/08
MS	Strontium	7440-24-6	39.32	98.300	% Recov	70.000	130.000				04/02/08
MS	Thallium	7440-28-0	39.45	98.625	% Recov	70.000	130.000				04/02/08
MS	Uranium	7440-61-1	39.61	99.025	% Recov	70.000	130.000				04/02/08
MS	Vanadium	7440-62-2	38.89	97.225	% Recov	70.000	130.000				04/02/08
MS	Zinc	7440-66-6	36.87	92.175	% Recov	70.000	130.000				04/02/08
MSD	Silver	7440-22-4	41.61	104.025	% Recov	70.000	130.000				04/02/08
MSD	Arsenic	7440-38-2	36.8	92.000	% Recov	70.000	130.000				04/02/08
MSD	Barium	7440-39-3	39.08	97.700	% Recov	70.000	130.000				04/02/08
MSD	Cadmium	7440-43-9	37.67	94.175	% Recov	70.000	130.000				04/02/08
MSD	Cobalt	7440-48-4	39.17	97.925	% Recov	70.000	130.000				04/02/08
MSD	Chromium	7440-47-3	39.2	98.000	% Recov	70.000	130.000				04/02/08
MSD	Copper	7440-50-8	39.9	99.750	% Recov	70.000	130.000				04/02/08
MSD	Mercury	7439-97-6	2.15	107.500	% Recov	70.000	130.000				04/02/08
MSD	Manganese	7439-96-5	39.35	98.375	% Recov	70.000	130.000				04/02/08
MSD	Nickel	7440-02-0	39.07	97.675	% Recov	70.000	130.000				04/02/08
MSD	Lead	7439-92-1	39.91	99.775	% Recov	70.000	130.000				04/02/08
MSD	Antimony	7440-36-0	40.53	101.325	% Recov	70.000	130.000				04/02/08
MSD	Selenium	7782-49-2	34.65	86.625	% Recov	70.000	130.000				04/02/08
MSD	Strontium	7440-24-6	40.19	100.475	% Recov	70.000	130.000				04/02/08
MSD	Thallium	7440-28-0	39.99	99.975	% Recov	70.000	130.000				04/02/08
MSD	Uranium	7440-61-1	40.35	100.875	% Recov	70.000	130.000				04/02/08
MSD	Vanadium	7440-62-2	39.2	98.000	% Recov	70.000	130.000				04/02/08
MSD	Zinc	7440-66-6	36.46	91.150	% Recov	70.000	130.000				04/02/08
SPK-RPD	Silver	7440-22-4	104.025		RPD			1.574	20.000		04/02/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080637

Matrix: WATER

Test: ICP-200.8 MS All possible meta

Sample Date: 03/27/08

Receive Date: 03/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SPK-RPD	Arsenic	7440-38-2	92.000		RPD			0.623	20.000		04/02/08
SPK-RPD	Barium	7440-39-3	97.700		RPD			1.860	20.000		04/02/08
SPK-RPD	Cadmium	7440-43-9	94.175		RPD			1.371	20.000		04/02/08
SPK-RPD	Cobalt	7440-48-4	97.925		RPD			0.640	20.000		04/02/08
SPK-RPD	Chromium	7440-47-3	98.000		RPD			0.640	20.000		04/02/08
SPK-RPD	Copper	7440-50-8	99.750		RPD			2.179	20.000		04/02/08
SPK-RPD	Mercury	7439-97-6	107.500		RPD			3.791	20.000		04/02/08
SPK-RPD	Manganese	7439-96-5	98.375		RPD			0.919	20.000		04/02/08
SPK-RPD	Nickel	7440-02-0	97.675		RPD			0.565	20.000		04/02/08
SPK-RPD	Lead	7439-92-1	99.775		RPD			1.185	20.000		04/02/08
SPK-RPD	Antimony	7440-36-0	101.325		RPD			1.843	20.000		04/02/08
SPK-RPD	Selenium	7782-49-2	86.625		RPD			1.015	20.000		04/02/08
SPK-RPD	Strontium	7440-24-6	100.475		RPD			2.188	20.000		04/02/08
SPK-RPD	Thallium	7440-28-0	99.975		RPD			1.360	20.000		04/02/08
SPK-RPD	Uranium	7440-61-1	100.875		RPD			1.851	20.000		04/02/08
SPK-RPD	Vanadium	7440-62-2	98.000		RPD			0.794	20.000		04/02/08
SPK-RPD	Zinc	7440-66-6	91.150		RPD			1.118	20.000		04/02/08
BATCH QC											
BLANK	Silver	7440-22-4	<0.1	n/a	ug/L					U	04/02/08
BLANK	Arsenic	7440-38-2	<0.4	n/a	ug/L					U	04/02/08
BLANK	Barium	7440-39-3	<0.2	n/a	ug/L					U	04/02/08
BLANK	Cadmium	7440-43-9	<0.1	n/a	ug/L					U	04/02/08
BLANK	Cobalt	7440-48-4	<5e-2	n/a	ug/L					U	04/02/08
BLANK	Chromium	7440-47-3	<0.5	n/a	ug/L					U	04/02/08
BLANK	Copper	7440-50-8	<0.1	n/a	ug/L					U	04/02/08
BLANK	Mercury	7439-97-6	<5e-2	n/a	ug/L					U	04/02/08
BLANK	Manganese	7439-96-5	<0.1	n/a	ug/L					U	04/02/08
BLANK	Nickel	7440-02-0	<0.2	n/a	ug/L					U	04/02/08
BLANK	Lead	7439-92-1	<0.1	n/a	ug/L					U	04/02/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080637

Matrix: WATER

Test: ICP-200.8 MS All possible meta

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BLANK	Antimony	7440-36-0	<0.3	n/a	ug/L					U	04/02/08
BLANK	Selenium	7782-49-2	<0.3	n/a	ug/L					U	04/02/08
BLANK	Strontium	7440-24-6	<0.1	n/a	ug/L					U	04/02/08
BLANK	Thallium	7440-28-0	<0.1	n/a	ug/L					U	04/02/08
BLANK	Uranium	7440-61-1	<5e-2	n/a	ug/L					U	04/02/08
BLANK	Vanadium	7440-62-2	<0.2	n/a	ug/L					U	04/02/08
BLANK	Zinc	7440-66-6	2.23	2.230	ug/L						04/02/08
LCS	Silver	7440-22-4	41.11	102.775	% Recov	85.000	115.000				04/02/08
LCS	Arsenic	7440-38-2	36.79	91.975	% Recov	85.000	115.000				04/02/08
LCS	Barium	7440-39-3	38.57	96.425	% Recov	85.000	115.000				04/02/08
LCS	Cadmium	7440-43-9	37.81	94.525	% Recov	85.000	115.000				04/02/08
LCS	Cobalt	7440-48-4	38.85	97.125	% Recov	85.000	115.000				04/02/08
LCS	Chromium	7440-47-3	38.67	96.675	% Recov	85.000	115.000				04/02/08
LCS	Copper	7440-50-8	38.97	97.425	% Recov	85.000	115.000				04/02/08
LCS	Mercury	7439-97-6	2.07	103.500	% Recov	85.000	115.000				04/02/08
LCS	Manganese	7439-96-5	38.61	96.525	% Recov	85.000	115.000				04/02/08
LCS	Nickel	7440-02-0	38.58	96.450	% Recov	85.000	115.000				04/02/08
LCS	Lead	7439-92-1	39.65	99.125	% Recov	85.000	115.000				04/02/08
LCS	Antimony	7440-36-0	40.07	100.175	% Recov	85.000	115.000				04/02/08
LCS	Selenium	7782-49-2	34.42	86.050	% Recov	85.000	115.000				04/02/08
LCS	Strontium	7440-24-6	39.43	98.575	% Recov	80.000	120.000				04/02/08
LCS	Thallium	7440-28-0	39.75	99.375	% Recov	85.000	115.000				04/02/08
LCS	Uranium	7440-61-1	39.93	99.825	% Recov	85.000	115.000				04/02/08
LCS	Vanadium	7440-62-2	38.67	96.675	% Recov	85.000	115.000				04/02/08
LCS	Zinc	7440-66-6	39.06	97.650	% Recov	85.000	115.000				04/02/08

WSCF ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number: F08-073
Group #: WSCF20080637
Department: Inorganic

Sample #	Client ID	Lab Area	Test	Comment
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	VALGROUP			<p>ICP-MS: Zinc prep blank above the MDL. C-flag</p> <p>ICP-AES: High magnesium, aluminum, iron, sodium, and calcium preparation blank results; "C" flag if applicable. Zirconium is not present in the LCS. Sample pH = 5 as received.</p> <p>IC Anion - Sample dup RPD out of limits for chloride in sample W08GR00750; Analyte concentration below calibration range. DTS</p> <p>Pu-242 duplicate tracer recovery is slightly high. Since all the other recoveries came out fine, this batch has been approved. Imh</p>
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Lab Areas: VALGROUP - Group Validation
 LOGSAMP - Login for Sample

TESTDATA - Test Data Entry

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent **Group #:** WSCF20080637
SAF Number: F08-073 **Department:** Organic
Sample #: W08GR00750 **Sampled:** 03/27/08
Client ID: B1TNRI **Received:** 03/27/08
TRENT **Matrix:** WATER
WSCF

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Alcohols, Glycols - 8015 Prep											
Alcohols, Glycols - 8015											
Diethyl ether	60-29-7	Organics	U	< 5.00e+03	ug/L			1.00	5.0e+03		04/09/08
Ethylene glycol	107-21-1	Organics	U	< 5.00e+03	ug/L			1.00	5.0e+03		04/09/08
NWTPH-D TPH Diesel Range (Wa) Prep											
NWTPH-D TPH Diesel Range (Wa)											
Total Pet. Hydrocarbons Diesel	TPHDIESEL	LA-523-493	U	< 75.0	ug/L			1.00	75		04/09/08
Kerosene	TPHKEROSENE	LA-523-493	U	< 75.0	ug/L			1.00	75		04/09/08
SW-846 8270C Semi-Vols Prep											
SW-846 8270C Semi-Vols											
4-Nitrophenol	100-02-7	LA-523-456	U	< 0.950	ug/L			1.00	0.95		04/03/08
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	< 1.30	ug/L			1.00	1.3		04/03/08
Phenol	108-95-2	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	< 2.10	ug/L			1.00	2.1		04/03/08
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
Pyrene	129-00-0	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
N-Nitrosodi-n-dipropylamine	621-64-7	LA-523-456	U	< 0.570	ug/L			1.00	0.57		04/03/08
Acenaphthene	83-32-9	LA-523-456	U	< 2.50	ug/L			1.00	2.5		04/03/08
Pentachlorophenol	87-86-5	LA-523-456	U	< 1.40	ug/L			1.00	1.4		04/03/08
2-Chlorophenol	95-57-8	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
4-Nitroaniline	100-01-6	LA-523-456	U	< 0.950	ug/L			1.00	0.95		04/03/08
4-Bromophenylphenyl ether	101-55-3	LA-523-456	U	< 0.950	ug/L			1.00	0.95		04/03/08
2,4-Dimethylphenol	105-67-9	LA-523-456	U	< 0.900	ug/L			1.00	0.90		04/03/08
4-Chloroaniline	106-47-8	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg)
TP Err = Total Propagated Error U - Analyzed for but not detected above limiting criteria.
DF = Dilution Factor U - Analyzed for but not detected above limiting criteria.

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report *WGPP/ver. 5.2*
 Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-073
Sample # W08GR00750
Client ID: BITNRI

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20080637
Department: Organic
Sampled: 03/27/08
Received: 03/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Bis(2-chloro-1-methylethyl) ether	108-60-1	LA-523-456	U	< 0.950	ug/L			1.00	0.95		04/03/08
Bis(2-chloroethyl) ether	111-44-4	LA-523-456	U	< 0.860	ug/L			1.00	0.86		04/03/08
Bis(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
Bis(2-ethylhexyl) phthalate	117-81-7	LA-523-456	U	< 0.760	ug/L			1.00	0.76		04/03/08
Di-n-octylphthalate	117-84-0	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
Hexachlorobenzene	118-74-1	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
Anthracene	120-12-7	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
2,4-Dichlorophenol	120-83-2	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
Dimethyl phthalate	131-11-3	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
Dibenzofuran	132-64-9	LA-523-456	U	< 2.10	ug/L			1.00	2.1		04/03/08
Benzo(ghi)perylene	191-24-2	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
Fluoranthene	206-44-0	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
Acenaphthylene	208-96-8	LA-523-456	U	< 2.20	ug/L			1.00	2.2		04/03/08
Chrysene	218-01-9	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
Benzo(a)pyrene	50-32-8	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
2,4-Dinitrophenol	51-28-5	LA-523-456	U	< 1.90	ug/L			1.00	1.9		04/03/08
Dibenz(a,h)anthracene	53-70-3	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	< 0.950	ug/L			1.00	0.95		04/03/08
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	< 1.30	ug/L			1.00	1.3		04/03/08
Benzo(a)anthracene	56-55-3	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
4-Chlorophenylphenyl ether	7005-72-3	LA-523-456	U	< 1.60	ug/L			1.00	1.6		04/03/08

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg)
TP Err = Total Propagated Error U - Analyzed for but not detected above limiting criteria. (inorg)
DF = Dilution Factor U - Analyzed for but not detected above limiting criteria.

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

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-073
Sample # W08GR00750
Client ID: BITNRI
Group #: WSCF20080637
Department: Organic
Sampled: 03/27/08
Received: 03/27/08

Matrix: WATER

TRENT
WSCF

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	< 4.80	ug/L			1.00	4.8		04/03/08
Isophorone	78-59-1	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
Diethylphthalate	84-66-2	LA-523-456	U	< 1.80	ug/L			1.00	1.8		04/03/08
Di-n-butylphthalate	84-74-2	LA-523-456	U	< 2.20	ug/L			1.00	2.2		04/03/08
Phenanthrene	85-01-8	LA-523-456	U	< 0.520	ug/L			1.00	0.52		04/03/08
Butylbenzylphthalate	85-68-7	LA-523-456	U	< 0.570	ug/L			1.00	0.57		04/03/08
N-Nitrosodiphenylamine	86-30-6	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
Fluorene	86-73-7	LA-523-456	U	< 1.30	ug/L			1.00	1.3		04/03/08
Carbazole	86-74-8	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
Hexachlorobutadiene	87-68-3	LA-523-456	U	< 1.90	ug/L			1.00	1.9		04/03/08
2-Nitroaniline	88-74-4	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
2-Nitrophenol	88-75-5	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
Naphthalene	91-20-3	LA-523-456	U	< 2.00	ug/L			1.00	2.0		04/03/08
2-Methylnaphthalene	91-57-6	LA-523-456	U	< 2.90	ug/L			1.00	2.9		04/03/08
2-Chloronaphthalene	91-58-7	LA-523-456	U	< 3.30	ug/L			1.00	3.3		04/03/08
3,3'-Dichlorobenzidine	91-94-1	LA-523-456	U	< 0.760	ug/L			1.00	0.76		04/03/08
2-Methylphenol (cresol, o)	95-48-7	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	< 1.40	ug/L			1.00	1.4		04/03/08
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	< 0.620	ug/L			1.00	0.62		04/03/08
Nitrobenzene	98-95-3	LA-523-456	U	< 0.570	ug/L			1.00	0.57		04/03/08
3-Nitroaniline	99-09-2	LA-523-456	U	< 0.570	ug/L			1.00	0.57		04/03/08
3 & 4 Methylphenol Total	65794-96-9	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
Hexachloroethane	67-72-1	LA-523-456	U	< 1.30	ug/L			1.00	1.3		04/03/08
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08
Tributyl phosphate	126-73-8	LA-523-456	U	< 0.480	ug/L			1.00	0.48		04/03/08

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank. (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error U - Analyzed for but not detected above limiting criteria. U - Analyzed for but not detected above limiting criteria. (org)

DF = Dilution Factor

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

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-073
Sample # W08GR00750
Client ID: BITNRI

Matrix: WATER
Group #: WSCF20080637
Department: Organic
Sampled: 03/27/08
Received: 03/27/08

TRENT
WSCF

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
VOA Ground Water Protection											
1,1-Dichloroethene	75-35-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Trichloroethene	79-01-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Benzene	71-43-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Toluene	108-88-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Chlorobenzene	108-90-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
1,1-Dichloroethane	75-34-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Ethylbenzene	100-41-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Styrene	100-42-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
1,2-Dichloroethane	107-06-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
4-Methyl-2-Pentanone	108-10-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Dibromochloromethane	124-48-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Tetrachloroethene	127-18-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Xylenes (total)	1330-20-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
1,2-Dichloroethene(Total)	540-59-0	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Carbon tetrachloride	56-23-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
2-Hexanone	591-78-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Acetone	67-64-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Chloroform	67-66-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Bromomethane	74-83-9	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Chloromethane	74-87-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank. (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error U - Analyzed for but not detected above limiting criteria.

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

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-073
Sample # W08GR00750
Client ID: BITNRI
Group #: WSCF20080637
Department: Organic
Sampled: 03/27/08
Received: 03/27/08

TRENT
WSCF
Matrix: WATER

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Chloroethane	75-00-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Vinyl chloride	75-01-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Methylenechloride	75-09-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Carbon disulfide	75-15-0	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Bromoform	75-25-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Bromodichloromethane	75-27-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
1,2-Dichloropropane	78-87-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
2-Butanone	78-93-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
1-Butanol	71-36-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0e+02		04/04/08
Trichloromonofluoromethane	75-69-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
n-Butylbenzene	104-51-8	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
trans-1,2-Dichloroethylene	156-60-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
cis-1,2-Dichloroethylene	156-59-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor(inorg)
TP Err = Total Propagated Error U - Analyzed for but not detected above limiting criteria.(org)
DF = Dilution Factor U - Analyzed for but not detected above limiting criteria.(org)

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
Report WGPP/ver. 5.2
Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-073
Sample # W08GR00751
Client ID: BIV581

Group #: WSCF20080637
Department: Organic
Sampled: 03/27/08
Received: 03/27/08

TRENT
WSCF
Matrix: WATER

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
VOA Ground Water Protection											
1,1-Dichloroethene	75-35-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Trichloroethene	79-01-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Benzene	71-43-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Toluene	108-88-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Chlorobenzene	108-90-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
1,1-Dichloroethane	75-34-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Ethylbenzene	100-41-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Styrene	100-42-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
1,2-Dichloroethane	107-06-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
4-Methyl-2-Pentanone	108-10-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Dibromochloromethane	124-48-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Tetrachloroethene	127-18-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Xylenes (total)	1330-20-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
1,2-Dichloroethene(Total)	540-59-0	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Carbon tetrachloride	56-23-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
2-Hexanone	591-78-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Acetone	67-64-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Chloroform	67-66-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Bromomethane	74-83-9	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Chloromethane	74-87-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank. (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
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* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-073
Sample # W08GR00751
Client ID: BIV581

**TRENT
WSCF**

Group #: WSCF20080637
Department: Organic
Sampled: 03/27/08
Received: 03/27/08

Matrix: WATER

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Chloroethane	75-00-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Vinyl chloride	75-01-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Methylenechloride	75-09-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Carbon disulfide	75-15-0	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Bromoform	75-25-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
Bromodichloromethane	75-27-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
1,2-Dichloropropane	78-87-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
2-Butanone	78-93-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
1-Butanol	71-36-3	LA-523-455	U	< 100	ug/L			1.00	1.0e + 02		04/04/08
Trichloromonofluoromethane	75-69-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
n-Butylbenzene	104-51-8	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
trans-1,2-Dichloroethylene	156-60-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08
cis-1,2-Dichloroethylene	156-59-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/04/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err = Total Propagated Error

DF=Dilution Factor

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Report WGPP/ver. 5.2

Groundwater Remediation Program

B - The analyte < the RDL but > = the IDL/MDL (inorg)

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

U - Analyzed for but not detected above limiting criteria.

C - The Analyte was found in the Associated Blank.(inorg)

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

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

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: WSCF20080637
 Matrix: WATER
 Test: Alcohols, Glycols - 8015

Sample Date: 03/27/08
 Receive Date: 03/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00750											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	2-Bromoethanol	540-51-2	17900		RPD			1.690	25.000		04/08/08
DUP	Diethyl ether	60-29-7	< 5000		RPD			n/a	25.000	U	04/08/08
DUP	Ethylene glycol	107-21-1	< 5000		RPD			n/a	25.000	U	04/08/08
MS	2-Bromoethanol	540-51-2	17500	99.432	% Recov	70.000	125.000				04/08/08
MS	Diethyl ether	60-29-7	6800	95.775	% Recov	75.000	125.000				04/08/08
MS	Ethylene glycol	107-21-1	9000	81.818	% Recov	75.000	125.000				04/08/08
MSD	2-Bromoethanol	540-51-2	19000	107.955	% Recov	70.000	125.000				04/08/08
MSD	Diethyl ether	60-29-7	7000	98.592	% Recov	75.000	125.000				04/08/08
MSD	Ethylene glycol	107-21-1	9400	85.455	% Recov	75.000	125.000				04/08/08
SPK-RPD	2-Bromoethanol	540-51-2	107,955		RPD			8.219	20.000		04/08/08
SPK-RPD	Diethyl ether	60-29-7	98.592		RPD			2.899	20.000		04/08/08
SPK-RPD	Ethylene glycol	107-21-1	85.455		RPD			4.349	20.000		04/08/08
BATCH QC											
BLANK	2-Bromoethanol	540-51-2	18300	103.977	% Recov	75.000	125.000				04/08/08
BLANK	Diethyl ether	60-29-7	< 5000	n/a	ug/L	0.000	10.000			U	04/08/08
BLANK	Ethylene glycol	107-21-1	< 5000	n/a	ug/L	0.000	5.000			U	04/08/08
LCS	2-Bromoethanol	540-51-2	17600	100.000	% Recov	70.000	130.000				04/08/08
LCS	Diethyl ether	60-29-7	6800	95.775	% Recov	70.000	130.000				04/08/08
LCS	Ethylene glycol	107-21-1	8400	76.364	% Recov	70.000	130.000				04/08/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: **WSCF20080637**
 Matrix: **WATER**
 Test: **SW-846 8270C Semi-Vols**

Sample Date: **03/27/08**
 Receive Date: **03/27/08**

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MS	1,2,4-Trichlorobenzene	120-82-1	15.666	82.200	% Recov	50.000	120.000				04/03/08
MS	1,4-Dichlorobenzene	106-46-7	14.630	76.800	% Recov	41.000	113.000				04/03/08
MS	2,4-Dinitrotoluene	121-14-2	16.404	86.100	% Recov	65.000	109.000				04/03/08
MS	2-Fluorophenol(Surr)	367-12-4	16.634	87.300	% Recov	50.000	110.000				04/03/08
MS	Acenaphthene	83-32-9	16.320	85.700	% Recov	62.000	112.000				04/03/08
MS	4-Chloro-3-methylphenol	59-50-7	25.396	88.900	% Recov	59.000	115.000				04/03/08
MS	2-Chlorophenol	95-57-8	25.563	89.500	% Recov	69.000	111.000				04/03/08
MS	N-Nitrosodi-n-dipropylamine	621-64-7	17.520	92.000	% Recov	69.000	115.000				04/03/08
MS	2-Fluorobiphenyl(Surr)	321-60-8	17.063	89.600	% Recov	58.000	109.000				04/03/08
MS	Phenol	108-95-2	25.531	89.400	% Recov	59.000	115.000				04/03/08
MS	Nitrobenzene-d5(Surr)	4165-60-0	17.636	92.600	% Recov	60.000	118.000				04/03/08
MS	4-Nitrophenol	100-02-7	25.296	88.500	% Recov	32.000	130.000				04/03/08
MS	Pentachlorophenol	87-86-5	26.806	93.800	% Recov	51.000	121.000				04/03/08
MS	Phenol-d5(Surr)	4165-62-2	17.236	90.500	% Recov	59.000	116.000				04/03/08
MS	Pyrene	129-00-0	16.766	88.000	% Recov	58.000	116.000				04/03/08
MS	2,4,6-Tribromophenol(Surr)	118-79-6	17.573	92.300	% Recov	60.000	120.000				04/03/08
MS	Terphenyl-d14(Surr)	98904-43-9	17.512	91.900	% Recov	60.000	120.000				04/03/08
MSD	1,2,4-Trichlorobenzene	120-82-1	16.630	87.300	% Recov	50.000	120.000				04/03/08
MSD	1,4-Dichlorobenzene	106-46-7	16.325	85.700	% Recov	41.000	113.000				04/03/08
MSD	2,4-Dinitrotoluene	121-14-2	17.610	92.500	% Recov	65.000	109.000				04/03/08
MSD	2-Fluorophenol(Surr)	367-12-4	17.742	93.100	% Recov	50.000	110.000				04/03/08
MSD	Acenaphthene	83-32-9	17.457	91.600	% Recov	62.000	112.000				04/03/08
MSD	4-Chloro-3-methylphenol	59-50-7	27.148	95.000	% Recov	59.000	115.000				04/03/08
MSD	2-Chlorophenol	95-57-8	27.558	96.500	% Recov	69.000	111.000				04/03/08
MSD	N-Nitrosodi-n-dipropylamine	621-64-7	18.216	95.600	% Recov	69.000	115.000				04/03/08
MSD	2-Fluorobiphenyl(Surr)	321-60-8	17.474	91.700	% Recov	58.000	109.000				04/03/08

Lab ID: W08GR00750
BATCH QC ASSOCIATED WITH SAMPLE

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: WSCF20080637
 Matrix: WATER
 Test: SW-846 8270C Semi-Vols

Sample Date: 03/27/08
 Receive Date: 03/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MSD	Phenol	108-95-2	28.135	98.500	% Recov	59.000	115.000				04/03/08
MSD	Nitrobenzene-d5(Surr)	4165-60-0	18.076	94.900	% Recov	60.000	118.000				04/03/08
MSD	4-Nitrophenol	100-02-7	25.053	87.700	% Recov	32.000	130.000				04/03/08
MSD	Pentachlorophenol	87-86-5	28.501	99.800	% Recov	51.000	121.000				04/03/08
MSD	Phenol-d5(Surr)	4165-62-2	18.128	95.200	% Recov	59.000	116.000				04/03/08
MSD	Pyrene	129-00-0	18.224	95.700	% Recov	58.000	116.000				04/03/08
MSD	2,4,6-Tribromophenol(Surr)	118-79-6	18.139	95.200	% Recov	60.000	120.000				04/03/08
MSD	Terphenyl-d14(Surr)	98904-43-9	17.948	94.200	% Recov	60.000	120.000				04/03/08
SPK-RPD	1,2,4-Trichlorobenzene	120-82-1	87.300		RPD			6.018	25.000		04/03/08
SPK-RPD	1,4-Dichlorobenzene	106-46-7	85.700		RPD			10.954	25.000		04/03/08
SPK-RPD	2,4-Dinitrotoluene	121-14-2	92.500		RPD			7.167	25.000		04/03/08
SPK-RPD	2-Fluorophenol(Surr)	367-12-4	93.100		RPD			6.430	25.000		04/03/08
SPK-RPD	Acenaphthene	83-32-9	91.600		RPD			6.655	25.000		04/03/08
SPK-RPD	4-Chloro-3-methylphenol	59-50-7	95.000		RPD			6.634	25.000		04/03/08
SPK-RPD	2-Chlorophenol	95-57-8	96.500		RPD			7.527	25.000		04/03/08
SPK-RPD	N-Nitrosodi-n-dipropylamine	621-64-7	95.600		RPD			3.838	25.000		04/03/08
SPK-RPD	2-Fluorobiphenyl(Surr)	321-60-8	91.700		RPD			2.317	25.000		04/03/08
SPK-RPD	Phenol	108-95-2	98.500		RPD			9.686	16.000		04/03/08
SPK-RPD	Nitrobenzene-d5(Surr)	4165-60-0	94.900		RPD			2.453	25.000		04/03/08
SPK-RPD	4-Nitrophenol	100-02-7	87.700		RPD			0.908	25.000		04/03/08
SPK-RPD	Pentachlorophenol	87-86-5	99.800		RPD			6.198	25.000		04/03/08
SPK-RPD	Phenol-d5(Surr)	4165-62-2	95.200		RPD			5.062	25.000		04/03/08
SPK-RPD	Pyrene	129-00-0	95.700		RPD			8.383	25.000		04/03/08
SPK-RPD	2,4,6-Tribromophenol(Surr)	118-79-6	95.200		RPD			3.093	25.000		04/03/08
SPK-RPD	Terphenyl-d14(Surr)	98904-43-9	94.200		RPD			2.472	25.000		04/03/08
SURR	2-Fluorophenol(Surr)	367-12-4	15.284	80.200	% Recov	50.000	110.000				04/03/08
SURR	2-Fluorobiphenyl(Surr)	321-60-8	16.598	87.100	% Recov	58.000	109.000				04/03/08
SURR	Nitrobenzene-d5(Surr)	4165-60-0	16.200	85.100	% Recov	60.000	118.000				04/03/08
SURR	Phenol-d5(Surr)	4165-62-2	16.572	87.000	% Recov	59.000	116.000				04/03/08
SURR	2,4,6-Tribromophenol(Surr)	118-79-6	15.388	80.800	% Recov	60.000	120.000				04/03/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: WSCF20080637
 Matrix: WATER
 Test: SW-846 8270C Semi-Vols

Sample Date: 03/27/08
 Receive Date: 03/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SURR	Terphenyl-d14(Surr)	98904-43-9	16.388	86.000	% Recov	60.000	120.000				04/03/08
BATCH QC											
BLANK	1,2-Dichlorobenzene	95-50-1	< 1.5	n/a	ug/L					U	04/03/08
BLANK	1,2,4-Trichlorobenzene	120-82-1	< 2.2	n/a	ug/L					U	04/03/08
BLANK	1,3-Dichlorobenzene	541-73-1	< 1.3	n/a	ug/L					U	04/03/08
BLANK	1,4-Dichlorobenzene	106-46-7	< 1.4	n/a	ug/L					U	04/03/08
BLANK	2,4-Dichlorophenol	120-83-2	< 0.50	n/a	ug/L					U	04/03/08
BLANK	2,4-Dinitrotoluene	121-14-2	< 0.50	n/a	ug/L					U	04/03/08
BLANK	2,4,5-Trichlorophenol	95-95-4	< 0.65	n/a	ug/L					U	04/03/08
BLANK	2,4,6-Trichlorophenol	88-06-2	< 0.50	n/a	ug/L					U	04/03/08
BLANK	2,4-Dimethylphenol	105-67-9	< 0.95	n/a	ug/L					U	04/03/08
BLANK	2,6-Dinitrotoluene	606-20-2	< 0.50	n/a	ug/L					U	04/03/08
BLANK	2-Chloronaphthalene	91-58-7	< 3.5	n/a	ug/L					U	04/03/08
BLANK	2-Fluorophenol(Surr)	367-12-4	16.081	80.400	% Recov	50.000	110.000				04/03/08
BLANK	2-Methylnaphthalene	91-57-6	< 3.0	n/a	ug/L					U	04/03/08
BLANK	2-Methylphenol (cresol, o-)	95-48-7	< 0.50	n/a	ug/L					U	04/03/08
BLANK	2-Nitroaniline	88-74-4	< 0.50	n/a	ug/L					U	04/03/08
BLANK	2-Nitrophenol	88-75-5	< 0.50	n/a	ug/L					U	04/03/08
BLANK	3 & 4 Methylphenol Total	65794-96-9	< 0.50	n/a	ug/L	0.000	5.000			U	04/03/08
BLANK	3-Nitroaniline	99-09-2	< 0.60	n/a	ug/L					U	04/03/08
BLANK	4,6-Dinitro-2-methylphenol	534-52-1	< 1.0	n/a	ug/L					U	04/03/08
BLANK	4-Bromophenylphenyl ether	101-55-3	< 1.0	n/a	ug/L					U	04/03/08
BLANK	4-Chlorophenylphenyl ether	7005-72-3	< 1.7	n/a	ug/L					U	04/03/08
BLANK	Acenaphthene	83-32-9	< 2.6	n/a	ug/L					U	04/03/08
BLANK	Acenaphthylene	208-96-8	< 2.3	n/a	ug/L					U	04/03/08
BLANK	Anthracene	120-12-7	< 0.50	n/a	ug/L					U	04/03/08
BLANK	Bis(2-chloroethyl) ether	111-44-4	< 0.90	n/a	ug/L					U	04/03/08
BLANK	Benzo(a)anthracene	56-55-3	< 0.50	n/a	ug/L					U	04/03/08
BLANK	Benzo(b)fluoranthene	205-99-2	< 0.50	n/a	ug/L					U	04/03/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080637
 Matrix: WATER
 Test: SW-846 8270C Semi-Vols

Sample Date:
 Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BLANK	Benzo(g,h,i)perylene	191-24-2	< 0.50	n/a	ug/L					U	04/03/08
BLANK	Benzo(a)pyrene	50-32-8	< 0.50	n/a	ug/L					U	04/03/08
BLANK	Bis(2-Chloroethoxy)methane	111-91-1	< 0.50	n/a	ug/L					U	04/03/08
BLANK	Bis(2-ethylhexyl) phthalate	117-81-7	< 0.80	n/a	ug/L					U	04/03/08
BLANK	Bis(2-chloro-1-methylethyl)eth	108-60-1	< 1.0	n/a	ug/L	0.000	10.000			U	04/03/08
BLANK	Benzo(k)fluoranthene	207-08-9	< 0.50	n/a	ug/L					U	04/03/08
BLANK	Butylbenzylphthalate	85-68-7	< 0.60	n/a	ug/L					U	04/03/08
BLANK	Carbazole	86-74-8	< 0.50	n/a	ug/L					U	04/03/08
BLANK	4-Chloroaniline	106-47-8	< 0.50	n/a	ug/L					U	04/03/08
BLANK	4-Chloro-3-methylphenol	59-50-7	< 0.50	n/a	ug/L					U	04/03/08
BLANK	2-Chlorophenol	95-57-8	< 0.50	n/a	ug/L					U	04/03/08
BLANK	Chrysene	218-01-9	< 0.50	n/a	ug/L					U	04/03/08
BLANK	3,3'-Dichlorobenzidine	91-94-1	< 0.80	n/a	ug/L					U	04/03/08
BLANK	Dibenz(a,h)anthracene	53-70-3	< 0.50	n/a	ug/L					U	04/03/08
BLANK	Dibenzofuran	132-64-9	< 2.2	n/a	ug/L					U	04/03/08
BLANK	Di-n-butylphthalate	84-74-2	< 2.3	n/a	ug/L					U	04/03/08
BLANK	Diethylphthalate	84-66-2	< 1.9	n/a	ug/L					U	04/03/08
BLANK	Dimethyl phthalate	131-11-3	< 0.50	n/a	ug/L					U	04/03/08
BLANK	2,4-Dinitrophenol	51-28-5	< 2.0	n/a	ug/L					U	04/03/08
BLANK	Di-n-octylphthalate	117-84-0	< 0.50	n/a	ug/L					U	04/03/08
BLANK	N-Nitrosodi-n-dipropylamine	621-64-7	< 0.60	n/a	ug/L					U	04/03/08
BLANK	2-Fluorobiphenyl(Surr)	321-60-8	15.074	75.400	% Recov	58.000	109.000			U	04/03/08
BLANK	Fluorene	86-73-7	< 1.4	n/a	ug/L					U	04/03/08
BLANK	Fluoranthene	206-44-0	< 0.50	n/a	ug/L					U	04/03/08
BLANK	Hexachlorobenzene	118-74-1	< 0.50	n/a	ug/L					U	04/03/08
BLANK	Hexachlorobutadiene	87-68-3	< 2.0	n/a	ug/L					U	04/03/08
BLANK	Hexachlorocyclopentadiene	77-47-4	< 5.0	n/a	ug/L					U	04/03/08
BLANK	Hexachloroethane	67-72-1	< 1.4	n/a	ug/L					U	04/03/08
BLANK	Indeno(1,2,3-cd)pyrene	193-39-5	< 0.50	n/a	ug/L					U	04/03/08
BLANK	Isophorone	78-59-1	< 0.50	n/a	ug/L					U	04/03/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: WSCF20080637
 Matrix: WATER
 Test: SW-846 8270C Semi-Vols

Sample Date:
 Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BLANK	Phenol	108-95-2	< 0.50	n/a	ug/L					U	04/03/08
BLANK	Naphthalene	91-20-3	< 2.1	n/a	ug/L					U	04/03/08
BLANK	Nitrobenzene-d5(Surr)	4165-60-0	16.486	82.400	% Recov	60.000	118.000				04/03/08
BLANK	Nitrobenzene	98-95-3	< 0.60	n/a	ug/L					U	04/03/08
BLANK	4-Nitrophenol	100-02-7	< 1.0	n/a	ug/L					U	04/03/08
BLANK	4-Nitroaniline	100-01-6	< 1.0	n/a	ug/L					U	04/03/08
BLANK	N-Nitrosodiphenylamine	86-30-6	< 0.50	n/a	ug/L					U	04/03/08
BLANK	Pentachlorophenol	87-86-5	< 1.5	n/a	ug/L					U	04/03/08
BLANK	Phenanthrene	85-01-8	< 0.55	n/a	ug/L					U	04/03/08
BLANK	Phenol-d5(Surr)	4165-62-2	16.594	83.000	% Recov	59.000	116.000			U	04/03/08
BLANK	Pyrene	129-00-0	< 0.50	n/a	ug/L					U	04/03/08
BLANK	Tributyl phosphate	126-73-8	< 0.50	n/a	ug/L					U	04/03/08
BLANK	2,4,6-Tribromophenol(Surr)	118-79-6	14.156	70.800	% Recov	60.000	120.000				04/03/08
BLANK	Terphenyl-d14(Surr)	98904-43-9	18.061	90.300	% Recov	60.000	120.000				04/03/08
LCS	1,2,4-Trichlorobenzene	120-82-1	13.418	67.100	% Recov	46.000	107.000				04/03/08
LCS	1,4-Dichlorobenzene	106-46-7	13.000	65.000	% Recov	42.000	111.000				04/03/08
LCS	2,4-Dinitrotoluene	121-14-2	14.602	73.000	% Recov	59.000	106.000				04/03/08
LCS	2-Fluorophenol(Surr)	367-12-4	15.043	75.200	% Recov	50.000	110.000				04/03/08
LCS	Acenaphthene	83-32-9	15.110	75.600	% Recov	61.000	116.000				04/03/08
LCS	4-Chloro-3-methylphenol	59-50-7	22.018	73.400	% Recov	61.000	106.000				04/03/08
LCS	2-Chlorophenol	95-57-8	22.648	75.500	% Recov	66.000	106.000				04/03/08
LCS	N-Nitrosodi-n-dipropylamine	621-64-7	15.331	76.700	% Recov	71.000	114.000				04/03/08
LCS	2-Fluorobiphenyl(Surr)	321-60-8	15.689	78.400	% Recov	58.000	109.000				04/03/08
LCS	Phenol	108-95-2	22.650	75.500	% Recov	67.000	105.000				04/03/08
LCS	Nitrobenzene-d5(Surr)	4165-60-0	15.647	78.200	% Recov	60.000	118.000				04/03/08
LCS	4-Nitrophenol	100-02-7	18.055	60.200	% Recov	32.000	118.000				04/03/08
LCS	Pentachlorophenol	87-86-5	19.096	63.700	% Recov	62.000	114.000				04/03/08
LCS	Phenol-d5(Surr)	4165-62-2	15.381	76.900	% Recov	59.000	116.000				04/03/08
LCS	Pyrene	129-00-0	16.832	84.200	% Recov	66.000	118.000				04/03/08
LCS	2,4,6-Tribromophenol(Surr)	118-79-6	15.172	75.900	% Recov	60.000	120.000				04/03/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: WSCF20080637
 Matrix: WATER
 Test: SW-846 8270C Semi-Vols

Sample Date:
 Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
LCS	Terphenyl-d14(Surr)	98904-43-9	18.430	92.200	% Recov	60.000	120.000				04/03/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: WSCF20080637

Matrix: WATER

Test: NWT/PH-D TPH Diesel Range (Wa)

Sample Date: 03/27/08

Receive Date: 03/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00750											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	ortho-Terphenyl Surr	84-15-1	509.50	102.000	% Recov	70.000	130.000				04/09/08
MS	Total Pet. Hydrocarbons Diesel	TPHDIESEL	2745.4	110.000	% Recov	75.000	125.000				04/09/08
MSD	ortho-Terphenyl Surr	84-15-1	482.87	96.600	% Recov	70.000	130.000				04/09/08
MSD	Total Pet. Hydrocarbons Diesel	TPHDIESEL	3953.3	105.000	% Recov	75.000	125.000				04/09/08
SURR	ortho-Terphenyl Surr	84-15-1	532.74	107.000	% Recov	70.000	130.000				04/09/08
Lab ID: W08P001759											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	ortho-Terphenyl Surr	84-15-1	514.04	103.000	% Recov	70.000	130.000				04/09/08
MS	Total Pet. Hydrocarbons Diesel	TPHDIESEL	4780.0	95.600	% Recov	75.000	125.000				04/09/08
MSD	ortho-Terphenyl Surr	84-15-1	508.60	102.000	% Recov	70.000	130.000				04/09/08
MSD	Total Pet. Hydrocarbons Diesel	TPHDIESEL	5453.7	109.000	% Recov	75.000	125.000				04/09/08
SPK-RPD	ortho-Terphenyl Surr	84-15-1	102.000		RPD			0.976	20.000		04/09/08
SPK-RPD	Total Pet. Hydrocarbons Diesel	TPHDIESEL	109.000		RPD			13.099	20.000		04/09/08
BATCH QC											
BLANK	Kerosene	TPHKEROSENE	< 75	n/a	ug/L					U	04/09/08
BLANK	ortho-Terphenyl Surr	84-15-1	466.60	93.300	% Recov	70.000	130.000				04/09/08
BLANK	Total Pet. Hydrocarbons Diesel	TPHDIESEL	< 75	n/a	ug/L					U	04/09/08
LCS	ortho-Terphenyl Surr	84-15-1	544.26	109.000	% Recov	70.000	130.000				04/09/08
LCS	Total Pet. Hydrocarbons Diesel	TPHDIESEL	2751.7	110.000	% Recov	80.000	120.000				04/09/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: WSCF20080637
 Matrix: WATER
 Test: VOA Ground Water Protection

Sample Date: 03/27/08
 Receive Date: 03/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00750											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	4-Bromofluorobenzene(Surr)	460-00-4	48.660	97.300	% Recov	75.000	125.000				04/04/08
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	54.330	109.000	% Recov	75.000	125.000				04/04/08
SURR	Toluene-d8(Surr)	2037-26-5	52.030	104.000	% Recov	75.000	125.000				04/04/08
Lab ID: W08GR00751											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	4-Bromofluorobenzene(Surr)	460-00-4	48.330	96.700	% Recov	75.000	125.000				04/04/08
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	52.690	105.000	% Recov	75.000	125.000				04/04/08
SURR	Toluene-d8(Surr)	2037-26-5	51.540	103.000	% Recov	75.000	125.000				04/04/08
Lab ID: W08GR00843											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	1,1-Dichloroethene	75-35-4	21.190	84.800	% Recov	63.000	117.000				04/03/08
MS	Benzene	71-43-2	23.140	92.600	% Recov	75.000	129.000				04/03/08
MS	4-Bromofluorobenzene(Surr)	460-00-4	49.240	98.500	% Recov	75.000	125.000				04/03/08
MS	Chlorobenzene	108-90-7	23.750	95.000	% Recov	79.000	119.000				04/03/08
MS	1,2-Dichloroethane-d4(Surr)	17060-07-0	53.480	107.000	% Recov	75.000	125.000				04/03/08
MS	Toluene-d8(Surr)	2037-26-5	51.270	103.000	% Recov	75.000	125.000				04/03/08
MS	Toluene	108-88-3	24.750	99.000	% Recov	76.000	120.000				04/03/08
MS	Trichloroethene	79-01-6	19.500	78.000	% Recov	73.000	123.000				04/03/08
MSD	1,1-Dichloroethene	75-35-4	22.850	91.400	% Recov	63.000	117.000				04/03/08
MSD	Benzene	71-43-2	23.310	93.200	% Recov	75.000	129.000				04/03/08
MSD	4-Bromofluorobenzene(Surr)	460-00-4	48.100	96.200	% Recov	75.000	125.000				04/03/08
MSD	Chlorobenzene	108-90-7	23.910	95.600	% Recov	79.000	119.000				04/03/08
MSD	1,2-Dichloroethane-d4(Surr)	17060-07-0	52.160	104.000	% Recov	75.000	125.000				04/03/08
MSD	Toluene-d8(Surr)	2037-26-5	50.870	102.000	% Recov	75.000	125.000				04/03/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: **WSCF20080637**

Matrix: **WATER**

Test: **VOA Ground Water Protection**

Sample Date: **04/01/08**
Receive Date: **04/01/08**

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MSD	Toluene	108-88-3	24.580	98.300	% Recov	76.000	120.000				04/03/08
MSD	Trichloroethene	79-01-6	19.470	77.900	% Recov	73.000	123.000				04/03/08
SPK-RPD	1,1-Dichloroethene	75-35-4	91.400		RPD			7.491	20.000		04/03/08
SPK-RPD	Benzene	71-43-2	93.200		RPD			0.646	20.000		04/03/08
SPK-RPD	Chlorobenzene	108-90-7	95.600		RPD			0.630	20.000		04/03/08
SPK-RPD	1,2-Dichloroethane-d4(Surr)	17060-07-0	104.000		RPD			2.844	20.000		04/03/08
SPK-RPD	Toluene-d8(Surr)	2037-26-5	102.000		RPD			0.976	20.000		04/03/08
SPK-RPD	Toluene	108-88-3	98.300		RPD			0.710	20.000		04/03/08
SPK-RPD	Trichloroethene	79-01-6	77.900		RPD			0.128	20.000		04/03/08
BATCH QC											
BLANK	1,1-Dichloroethane	75-34-3	< 1.0	n/a	ug/L					U	04/03/08
BLANK	1,1,1-Trichloroethane	71-55-6	< 1.0	n/a	ug/L					U	04/03/08
BLANK	1,1,2-Trichloroethane	79-00-5	< 1.0	n/a	ug/L					U	04/03/08
BLANK	1,1,2,2-Tetrachloroethane	79-34-5	< 1.0	n/a	ug/L	0.000	5.000			U	04/03/08
BLANK	1,1-Dichloroethene	75-35-4	< 1.0	n/a	ug/L					U	04/03/08
BLANK	1,2-Dichloroethane	107-06-2	< 1.0	n/a	ug/L					U	04/03/08
BLANK	1,2-Dichloroethene(Total)	540-59-0	< 1.0	n/a	ug/L					U	04/03/08
BLANK	1-Butanol	71-36-3	< 100	n/a	ug/L					U	04/03/08
BLANK	2-Hexanone	591-78-6	< 1.0	n/a	ug/L					U	04/03/08
BLANK	4-Methyl-2-Pentanone	108-10-1	< 1.0	n/a	ug/L					U	04/03/08
BLANK	Acetone	67-64-1	< 1.0	n/a	ug/L					U	04/03/08
BLANK	Bromodichloromethane	75-27-4	< 1.0	n/a	ug/L					U	04/03/08
BLANK	Benzene	71-43-2	< 1.0	n/a	ug/L					U	04/03/08
BLANK	4-Bromofluorobenzene(Surr)	460-00-4	50.670	101.000	% Recov	75.000	125.000			U	04/03/08
BLANK	Bromoform	75-25-2	< 1.0	n/a	ug/L					U	04/03/08
BLANK	n-Butylbenzene	104-51-8	< 1.0	n/a	ug/L					U	04/03/08
BLANK	Carbon disulfide	75-15-0	< 1.0	n/a	ug/L					U	04/03/08
BLANK	Carbon tetrachloride	56-23-5	< 1.0	n/a	ug/L					U	04/03/08
BLANK	Dibromochloromethane	124-48-1	< 1.0	n/a	ug/L					U	04/03/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: **WSCF20080637**

Matrix: **WATER**

Test: **VOA Ground Water Protection**

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BLANK	Chloroform	67-66-3	< 1.0	n/a	ug/L					U	04/03/08
BLANK	Chlorobenzene	108-90-7	< 1.0	n/a	ug/L					U	04/03/08
BLANK	cis-1,2-Dichloroethylene	156-59-2	< 1.0	n/a	ug/L					U	04/03/08
BLANK	cis-1,3-Dichloropropene	10061-01-5	< 1.0	n/a	ug/L					U	04/03/08
BLANK	Chloroethane	75-00-3	< 1.0	n/a	ug/L					U	04/03/08
BLANK	1,2-Dichloroethane-d4(Surr)	17060-07-0	54.280	109.000	% Recov	75.000	125.000			U	04/03/08
BLANK	trans-1,2-Dichloroethylene	156-60-5	< 1.0	n/a	ug/L					U	04/03/08
BLANK	1,2-Dichloropropane	78-87-5	< 1.0	n/a	ug/L					U	04/03/08
BLANK	Ethylbenzene	100-41-4	< 1.0	n/a	ug/L					U	04/03/08
BLANK	Bromomethane	74-83-9	< 1.0	n/a	ug/L					U	04/03/08
BLANK	Chloromethane	74-87-3	< 1.0	n/a	ug/L					U	04/03/08
BLANK	2-Butanone	78-93-3	< 1.0	n/a	ug/L					U	04/03/08
BLANK	Methylenechloride	75-09-2	< 1.0	n/a	ug/L					U	04/03/08
BLANK	Tetrachloroethene	127-18-4	< 1.0	n/a	ug/L					U	04/03/08
BLANK	Styrene	100-42-5	< 1.0	n/a	ug/L					U	04/03/08
BLANK	Xylenes (total)	1330-20-7	< 1.0	n/a	ug/L	0.000	5.000			U	04/03/08
BLANK	Toluene-d8(Surr)	2037-26-5	50.950	102.000	% Recov	75.000	125.000			U	04/03/08
BLANK	Toluene	108-88-3	< 1.0	n/a	ug/L					U	04/03/08
BLANK	trans-1,3-Dichloropropene	10061-02-6	< 1.0	n/a	ug/L					U	04/03/08
BLANK	Trichloromonofluoromethane	75-69-4	< 1.0	n/a	ug/L					U	04/03/08
BLANK	Trichloroethene	79-01-6	< 1.0	n/a	ug/L					U	04/03/08
BLANK	Vinyl chloride	75-01-4	< 1.0	n/a	ug/L					U	04/03/08
LCS	1,1-Dichloroethene	75-35-4	23.380	93.500	% Recov	75.000	125.000			U	04/04/08
LCS	Benzene	71-43-2	24.500	98.000	% Recov	75.000	125.000			U	04/04/08
LCS	4-Bromofluorobenzene(Surr)	460-00-4	48.130	96.300	% Recov	75.000	125.000			U	04/04/08
LCS	Chlorobenzene	108-90-7	24.870	99.500	% Recov	75.000	125.000			U	04/04/08
LCS	1,2-Dichloroethane-d4(Surr)	17060-07-0	54.120	108.000	% Recov	75.000	125.000			U	04/04/08
LCS	Toluene-d8(Surr)	2037-26-5	51.900	104.000	% Recov	75.000	125.000			U	04/04/08
LCS	Toluene	108-88-3	25.220	101.000	% Recov	75.000	125.000			U	04/04/08
LCS	Trichloroethene	79-01-6	20.120	80.500	% Recov	75.000	125.000			U	04/04/08

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-073
Sample # W08GR00750
Client ID: BITNRI
Group #: WSCF20080637
Department: Radiochemistry
Sampled: 03/27/08
Received: 03/27/08

Matrix: WATER

TRENT
WSCF

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Americium by AEA											
Americium-241	14596-10-2	LA-508-471	U	0.0750	pCi/L	+0.0495	pCi/L	1.00	0.054		04/10/08
Am-243 tracer by AEA	AM243	LA-508-471	U	10.0	pCi/L			1.00	0.037		04/10/08
Gamma Energy Analysis-grd H2O											
Antimony-125	14234-35-6	LA-508-481	U	8.02	pCi/L	+12.1	pCi/L	1.00	21		04/01/08
Cobalt-60	10198-40-0	LA-508-481	U	-1.10	pCi/L	+3.97	pCi/L	1.00	7.0		04/01/08
Cesium-137	10045-97-3	LA-508-481	U	0.598	pCi/L	+5.05	pCi/L	1.00	7.8		04/01/08
Europium-152	14683-23-9	LA-508-481	U	0.997	pCi/L	+9.97	pCi/L	1.00	23		04/01/08
Europium-154	15585-10-1	LA-508-481	U	-1.33	pCi/L	+11.5	pCi/L	1.00	21		04/01/08
Europium-155	14391-16-3	LA-508-481	U	2.69	pCi/L	+14.3	pCi/L	1.00	24		04/01/08
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415	U	-0.340	pCi/L	+0.381	pCi/L	1.00	0.86		04/10/08
Gross beta	12587-47-2	LA-508-415	U	-0.500	pCi/L	+0.755	pCi/L	1.00	1.4		04/10/08
Neptunium by AEA											
Neptunium-237	13994-20-2	LA-508-471	U	0.0900	pCi/L	+0.135	pCi/L	1.00	0.12		05/08/08
Plutonium Isotopes by AEA											
Plutonium-238	13981-16-3	LA-508-471	U	-4.30e-03	pCi/L	+0.0285	pCi/L	1.00	0.060		04/10/08
Pu-239/240 by AEA	PU-239/240	LA-508-471	U	8.60e-03	pCi/L	+0.0124	pCi/L	1.00	0.012		04/10/08
Pu-242 tracer by AEA	PU242	LA-508-471	U	16.0	pCi/L			1.00	0.031		04/10/08
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415	U	-1.70	pCi/L	+1.70	pCi/L	1.00	1.1		04/07/08
Sr-85 Tracer by Beta Counting	SR85	LA-508-415	U	81.6	Percent			1.00	0.0		04/07/08
TC99 by Liquid Scin.											
Tc-99 by Liquid Scin.	14133-76-7	LA-508-421	U	-1.20	pCi/L	+3.56	pCi/L	1.00	5.9		04/03/08
Tritium by Liq Set column prep											

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg)
TP Err = Total Propagated Error U - Analyzed for but not detected above limiting criteria (inorg)
DF = Dilution Factor U - Analyzed for but not detected above limiting criteria.

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGP/ver. 5.2
 Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-073
Sample #: W08GR00750
Client ID: B1TNR1
Group #: WSCF20080637
Department: Radiochemistry
Sampled: 03/27/08
Received: 03/27/08

TRENT
WSCF
Matrix: WATER

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Tritium	10028-17-8	LA-508-421	U	110	pCi/L	+ -129	pCi/L	1.00	2.0e + 02		05/03/08
Uranium Isotopes by AEA											
Uranium-233/234	U-233/234	LA-508-471	U	0.0200	pCi/L	+ -0.0314	pCi/L	1.00	0.052		04/10/08
Uranium-235	15117-96-1	LA-508-471		0.0130	pCi/L	+ -0.0153	pCi/L	1.00	0.012		04/10/08
Uranium-238	U-238	LA-508-471		0.0390	pCi/L	+ -0.0265	pCi/L	1.00	0.011		04/10/08
U-232 tracer by AEA	U232	LA-508-471		10.0	pCi/L			1.00	0.074		04/10/08

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank. (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error U - Analyzed for but not detected above limiting criteria. U - Analyzed for but not detected above limiting criteria. (org)
DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2

WSCF TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number: F08-073 :F08-073

Group #: WSCF20080637
Department: Radiochemistry

Sample #	Client ID	Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W08GR00750	BTNR1	Gamma Energy Analysis-grd H2O	Bi-214				2.1e+02	pCi/L
W08GR00750	BTNR1	Gamma Energy Analysis-grd H2O	Bi-214 Count Error				20	%
W08GR00750	BTNR1	Gamma Energy Analysis-grd H2O	RA-226				1.6e+02	pCi/L
W08GR00750	BTNR1	Gamma Energy Analysis-grd H2O	RA-226 Count Error				20	%

RQ=Result Qualifier

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WGPPE v 5.2 Report#: WSCF20080637 Report Date: 13-may-2008

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080637
 Matrix: WATER
 Test: Gamma Energy Analysis-grd H2O

Sample Date: 03/27/08
 Receive Date: 03/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00750											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Cobalt-60	10198-40-0	U-0.3391		RPD			n/a	20.000		04/03/08
DUP	Cesium-137	10045-97-3	U0.6013		RPD			n/a	20.000		04/03/08
DUP	Europium-152	14683-23-9	U-1.742		RPD			n/a	20.000		04/03/08
DUP	Europium-154	15585-10-1	U-3.408		RPD			n/a	20.000		04/03/08
DUP	Europium-155	14391-16-3	U-5.12		RPD			n/a	20.000		04/03/08
DUP	Antimony-125	14234-35-6	U3.981		RPD			n/a	20.000		04/03/08
BATCH QC											
BLANK	Cobalt-60	10198-40-0	U-1.514	n/a	pCi/L	-10.000	1000.000				04/23/08
BLANK	Cesium-137	10045-97-3	U1.442	n/a	pCi/L	-10.000	1000.000				04/23/08
BLANK	Europium-152	14683-23-9	U-7.921	n/a	pCi/L	-10.000	1000.000				04/23/08
BLANK	Europium-154	15585-10-1	U-8.299	n/a	pCi/L	-10.000	1000.000				04/23/08
BLANK	Europium-155	14391-16-3	U-10.75	n/a	pCi/L	-10.000	1000.000				04/23/08
BLANK	Antimony-125	14234-35-6	U9.434	n/a	pCi/L	-10.000	1000.000				04/23/08
LCS	Cobalt-60	10198-40-0	10280	103.421	% Recov	80.000	120.000				04/02/08
LCS	Cesium-137	10045-97-3	6306	104.404	% Recov	80.000	120.000				04/02/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080637

Matrix: WATER

Test: Gross Alpha/Gross Beta (AB32)

Sample Date: 04/07/08

Receive Date: 04/07/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00946											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Gross alpha	12587-46-1	5.6E+01		RPD			13.333	20.000		04/10/08
DUP	Gross beta	12587-47-2	1.9E+01		RPD			11.111	20.000		04/10/08
BATCH QC											
BLANK	Gross alpha	12587-46-1	U:3.4E-01	n/a	pCi/L	-10.000	10.000				04/10/08
BLANK	Gross beta	12587-47-2	U4.3E-01	n/a	pCi/L	-10.000	10.000				04/10/08
LCS	Gross alpha	12587-46-1	39.0	100.671	% Recov	80.000	120.000				04/10/08
LCS	Gross beta	12587-47-2	122.0	108.734	% Recov	80.000	120.000				04/10/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080637
 Matrix: WATER
 Test: Americium by AEA

Sample Date: 03/27/08
 Receive Date: 03/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00750											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Americium-241	14596-10-2	U4.9e-2		RPD			n/a	20.000		04/10/08
DUP	Am-243 tracer by AEA	AM243	10.06	98.100	% Recov	30.000	105.000				04/10/08
SURR	Am-243 tracer by AEA	AM243	10.06	84.040	% Recov	30.000	105.000				04/10/08
BATCH QC											
BLANK	Americium-241	14596-10-2	U1e-2	n/a	pCi/L	-10.000	1000.000				04/10/08
BLANK	Am-243 tracer by AEA	AM243	10.06	85.800	% Recov	30.000	105.000				04/10/08
LCS	Americium-241	14596-10-2	12.2	102.954	% Recov	80.000	120.000				04/10/08
LCS	Am-243 tracer by AEA	AM243	11.17	98.510	% Recov	30.000	105.000				04/10/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080637
 Matrix: WATER
 Test: Neptunium by AEA

Sample Date: 03/27/08
 Receive Date: 03/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00750											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Neptunium-237	13994-20-2	U4.2e-2		RPD			n/a	20.000		05/08/08
MS	Neptunium-237	13994-20-2	95.1	95.100	% Recov	75.000	125.000				05/08/08
MSD	Neptunium-237	13994-20-2	96.5	96.500	% Recov	75.000	125.000				05/08/08
SPK-RPD	Neptunium-237	13994-20-2	96.500		% RPD			1.461	20.000		05/08/08
Lab ID: W08GR00998											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Neptunium-237	13994-20-2	102.4	102.400	% Recov	75.000	125.000				05/08/08
Lab ID: W08GR01072											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Neptunium-237	13994-20-2	97.4	97.400	% Recov	75.000	125.000				05/08/08
BATCH QC											
BLANK	Neptunium-237	13994-20-2	U-0.12	n/a	pCi/L	-10.000	1000.000				05/08/08
LCS	Neptunium-237	13994-20-2	11.52	90.388	% Recov	80.000	120.000				05/08/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080637

Matrix: WATER

Test: Plutonium Isotopics by AEA

Sample Date: 03/27/08

Receive Date: 03/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date	
Lab ID: W08GR00750												
BATCH QC ASSOCIATED WITH SAMPLE												
DUP	Plutonium-238	13981-16-3	U-6.2e-2		RPD			n/a	20.000		04/10/08	
DUP	Pu-239/240 by AEA	PU-239/240	U2.1e-2		RPD			n/a	20.000		04/10/08	
DUP	Pu-242 tracer by AEA	PU242	15.59	107.510	% Recov	30.000	105.000				04/10/08	
SURR	Pu-242 tracer by AEA	PU242	15.59	98.850	% Recov	30.000	105.000				04/10/08	
BATCH QC												
BLANK	Plutonium-238	13981-16-3	U-4.9e-3	n/a	pCi/L	-10.000	1000.000				04/10/08	
BLANK	Pu-239/240 by AEA	PU-239/240	2.5e-2	0.025	pCi/L	-10.000	1000.000				04/10/08	
BLANK	Pu-242 tracer by AEA	PU242	15.59	89.740	% Recov	30.000	105.000				04/10/08	
LCS	Pu-239/240 by AEA	PU-239/240	11.68	98.565	% Recov	80.000	120.000				04/10/08	
LCS	Pu-242 tracer by AEA	PU242	17.3	99.480	% Recov	30.000	105.000				04/10/08	

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080637
 Matrix: WATER
 Test: Strontium 89/90

Sample Date: 03/26/08
 Receive Date: 03/26/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00729											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Sr-85 Tracer by Beta Counting	SR85	69.5	69.500	% Recov	30.000	105.000				04/07/08
DUP	Strontium-89/90	SR-RAD	U-1.2E-02		RPD			n/a	20.000		04/07/08
Lab ID: W08GR00750											
BATCH QC ASSOCIATED WITH SAMPLE											
SUPR	Sr-85 Tracer by Beta Counting	SR85	81.6	81.600	% Recov	30.000	105.000				04/07/08
BATCH QC											
BLANK	Sr-85 Tracer by Beta Counting	SR85	97.2	97.200	% Recov	30.000	105.000				04/07/08
BLANK	Strontium-89/90	10098-97-2	U-2.5	n/a	pCi/L	-10.000	100.000				04/07/08
LCS	Sr-85 Tracer by Beta Counting	SR85	96.7	96.700	% Recov	30.000	105.000				04/07/08
LCS	Strontium-89/90	10098-97-2	142	100.942	% Recov	80.000	120.000				04/07/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080637
 Matrix: WATER
 Test: TC99 by Liquid Scin.

Sample Date: 03/26/08
 Receive Date: 03/26/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00729											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Tc-99 by Liquid Scin.	14133-76-7	U-1.7		RPD			n/a	20.000		04/03/08
MS	Tc-99 by Liquid Scin.	14133-76-7	799.8	106.321	% Recov	75.000	125.000				04/03/08
BATCH QC											
BLANK	Tc-99 by Liquid Scin.	14133-76-7	U0.3	n/a	pCi/L	-10.000	10.000				04/03/08
LCS	Tc-99 by Liquid Scin.	14133-76-7	197.1	104.785	% Recov	80.000	120.000				04/03/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080637

Matrix: WATER

Test: Tritium by Liq Sct column prep

Sample Date: 03/27/08

Receive Date: 03/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00750											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Tritium	10028-17-8	U1.0E+02		RPD			n/a	20.000		05/03/08
MS	Tritium	10028-17-8	25086	96.197	% Recov	75.000	125.000				05/03/08
BATCH QC											
BLANK	Tritium	10028-17-8	U9.9	n/a	pCi/L	-10.000	1000.000				05/03/08
LCS	Tritium	10028-17-8	2860.0	96.494	% Recov	80.000	120.000				05/03/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080637
 Matrix: WATER
 Test: Uranium Isotopics by AEA

Sample Date: 03/27/08
 Receive Date: 03/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00750											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	U-232 tracer by AEA	U232	10.35	100.980	% Recov	30.000	105.000				04/10/08
DUP	Uranium-233/234	U-233/234	U2.5e-2		RPD			n/a	20.000		04/10/08
DUP	Uranium-235	15117-96-1	U9e-3		RPD			n/a	20.000		04/10/08
DUP	Uranium-238	U-238	U4.1e-3		RPD			n/a	20.000		04/10/08
SURR	U-232 tracer by AEA	U232	10.35	103.850	% Recov	30.000	105.000				04/10/08
BATCH QC											
BLANK	U-232 tracer by AEA	U232	10.35	93.130	% Recov	30.000	105.000				04/10/08
BLANK	Uranium-233/234	13966-29-5	3.5e-2	0.035	pCi/L	-10.000	1000.000				04/10/08
BLANK	Uranium-235	15117-96-1	1.4e-2	0.014	pCi/L	-10.000	1000.000				04/10/08
BLANK	Uranium-238	24678-82-8	U1.7e-2	n/a	pCi/L	-10.000	1000.000				04/10/08
LCS	U-232 tracer by AEA	U232	11.49	86.730	% Recov	30.000	105.000				04/10/08
LCS	Uranium-233/234	13966-29-5	N/A	n/a	% Recov	75.000	125.000				04/10/08
LCS	Uranium-238	24678-82-8	19.75	104.167	% Recov	80.000	120.000				04/10/08

WSCF ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F08-073
Group #: WSCF20080637
Department: Radiochemistry

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		ICP-MS: Zinc prep blank above the MDL. C-flag
				ICP-AES: High magnesium, aluminum, iron, sodium, and calcium preparation blank results; "C" flag if applicable. Zirconium is not present in the LCS. Sample pH = 5 as received.
				IC Anion - Sample dup RPD out of limits for chloride in sample W08GR00750; Analyte concentration below calibration range. DTS
				Pu-242 duplicate tracer recovery is slightly high. Since all the other recoveries came out fine, this batch has been approved. Imh

Lab Areas: VALGROUP - Group Validation VALTEST - Test Validation TESTDATA - Test Data Entry
 LOGSAMP - Login for Sample LOGTEST - Login for Tests

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M4W41-SLF-08-518

ATTACHMENT 4

SAMPLE RECEIPT INFORMATION

Consisting of 6 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

5/12/08
T/15 KB

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program

Richland, WA 99354
 Attn: Steve Trent

Customer Code: GPP
 PO#: 123163/ES20
 Group#: 20080637
 Project#: F08-073
 Proj Mgr: Steve Trent E6-35
 Phone: 373-5869

The following samples were received from you on 03/27/08. 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
W08GR00750	B1TNR1	TRENT @2008 @8015GPP @AB-32 @AEA-30 @AEA-31 @AEA-32 @AEA-33 @GEA-GPP @GPP6010 @H3-33 @IC-30 @SR89_90 @SVOCGPP @TC99-30 @TPHD-WA @VOA-GPP CN-02 CR+6 NH4-IC	Water	03/27/08
W08GR00751	B1TNR4	TRENT @VOA-GPP	Water	03/27/08

Test Acronym Description

Test Acronym	Description
@2008	ICP-200.8 MS All possible meta
@8015GPP	Alcohols, Glycols - 8015
@AB-32	Gross Alpha/Gross Beta (AB32)
@AEA-30	Plutonium Isotopics by AEA
@AEA-31	Americium by AEA
@AEA-32	Uranium Isotopics by AEA
@AEA-33	Neptunium by AEA
@GEA-GPP	Gamma Energy Analysis-grd H2O
@GPP6010	ICP Metals Analysis, Grd H2O P.
@H3-33	Tritium by Liq Sct column prep
@IC-30	Anions by Ion Chromatography
@SR89_90	Strontium 89/90
@SVOCGPP	SW-846 8270C Semi-Vols
@TC99-30	TC99 by Liquid Scin.
@TPHD-WA	NWTPH-D TPH Diesel Range (Wa)
@VOA-GPP	VOA Ground Water Protection
CN-02	Cyanide by Midi/Spectrophotom
CR+6	Hexavalent chromium
NH4-IC	Ammonia (N) by IC

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Fluor Hanford Inc.

COLLECTOR
NCO SAMPLER

SAMPLING LOCATION
C5857, EB-084

ICE CHEST NO.

COMPANY CONTACT
TRENT, STEVE

TELEPHONE NO.
373-5869

PROJECT COORDINATOR
WIDRIG, DL

PRICE CODE
7N

DATA TURNAROUND
45 Days / 45 Days

PROJECT DESIGNATION
200-TW-1 Characterization for Well 299-E33-342 - QC Sampling

SAF NO.
F08-073

AIR QUALITY

METHOD OF SHIPMENT
GOVERNMENT VEHICLE

FIELD LOGBOOK NO.

ACTUAL SAMPLE DEPTH

COA
123163ES20

SHIPPED TO
Waste Sampling & Characterization

OFFSITE PROPERTY NO.
N/A

BILL OF LADING/AIR BILL NO.
N/A

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GK1 applies to this SAF.

(*)ICP/MS - 200.8 (TAL) {Antimony, Barium, Cadmium, Chromium, Cobalt, Copper, Manganese, Nickel, Silver, Vanadium, Zinc} ICP/MS - 200.8 (Add-on) {Arsenic, Lead, Selenium, Strontium, Thallium, Uranium} ICP Metals - 6010B (TAL)

(A)Aluminum, Calcium, Iron, Magnesium, Potassium, Sodium} ICP Metals - 6010B (Add-On) {Beryllium, Boron, Lithium, Phosphorus, Silicon} 200.8_HG - ICPMS;

(S)Semi-VOA - 8270B (TCL); Semi-VOA - 8270B (Add-On) {3+4 Methylphenol (cresol, m+p), Tributyl phosphate}

(A)VOA - 8260B (TCL); VOA - 8260B (Add-On) {1-Butanol, Trichloromonofluoromethane, cis-1,2-Dichloroethylene, n-Butylbenzene, trans-1,2-Dichloroethylene}

(A)Alcohols, Glycols, & Ketones - 8015 {Diethyl ether, Ethylene glycol}

(S)TPH-DieselKerosene Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range}

(6)IC Anions - 300.0 {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphate, Sulfate}

(7)Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Gamma Spec - Add-on {Antimony-125} Gross Alpha; Gross Beta;

COLLECTOR: Major Hartford PROJECT COORDINATOR: WIDRIG, DL PRICE CODE: 7N DATA: TURNAROUND
 NCO SAMPLER: D. E. PARCHEEN SAF NO.: F08-073 AIR QUALITY: 45 Days / 45 Days

COMPANY CONTACT: TRENT, STEVE TELEPHONE NO.: 373-5869 PROJECT COORDINATOR: WIDRIG, DL PRICE CODE: 7N DATA: TURNAROUND
 PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - QC Sampling SAF NO.: F08-073 AIR QUALITY: 45 Days / 45 Days
 FIELD LOGBOOK NO.: 123163E520 ACTUAL SAMPLE DEPTH: 123163E520 METHOD OF SHIPMENT: GOVERNMENT VEHICLE

OFFSITE PROPERTY NO.: N/A BILL OF LADING/AIR BILL NO.: N/A

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	HNO3 to pH <2					
Waste Sampling & Characterization	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)							
A=Air								
Di=Drum								
Liquids								
DS=Drum								
Solids								
L=Liquid								
O=Oil								
S=Soil								
SE=Sediment								
T=Tissue								
V=Vegetation								
W=Water								
Wl=Wipe								
X=Other								

SPECIAL HANDLING AND/OR STORAGE: N/A

| SAMPLE NO. | MATRIX* | SAMPLE DATE | SAMPLE TIME | VOLUME | NO. OF CONTAINER(S) | TYPE OF CONTAINER | HNO3 to pH <2 |
|------------|---------|-------------|-------------|--------|---------------------|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| BITNR1 | WATER | MAR 27 2009 | 0700 | 1000mL | 1 | P | 1000mL |

CHAIN OF POSSESSION

RELINQUISHED BY / REMOVED FROM	DATE/TIME	RECEIVED BY / STORED IN	DATE/TIME	SIGN/ PRINT NAMES	DATE/TIME
D. E. PARCHEEN	3-27-08	<i>[Signature]</i>	5/27/08 1305	<i>[Signature]</i>	29409 29409 29409 29409 29409 29477
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		
LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME		
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME		

ICED

COLLECTOR Fluor Hanford
 NCO SAMPLER D. E. PARCHEN
 SAMPLING LOCATION C5857, I-084-FB
 ICE CHEST NO. 1-084-FB
 COMPANY CONTACT TRENT, STEVE
 PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - QC Sampling
 FIELD LOGBOOK NO. 1652-167.7
 OFFSITE PROPERTY NO. N/A
 SHIPPED TO Waste Sampling & Characterization
 MATRIX* A=Air, DL=Drum, Liquids, DS=Drum, Solids, L=Liquid, O=Oil, S=Soil, SF=Sediment, T=Tissue, V=Vegetation, W=Water, WI=Wipe, X=Other
 PRESERVATION HCl or H2SO4 to pH <2/Cool-4C aGS*
 TYPE OF CONTAINER 4
 NO. OF CONTAINER(S) 4
 VOLUME 40mL
 SPECIAL HANDLING AND/OR STORAGE N/A
 MATRIX* WATER
 SAMPLE NO. B1TR4
 751

TELEPHONE NO. 373-5869
 PROJECT COORDINATOR WIDRIG, DL
 SAF NO. F08-073
 COA 123163ES20
 BILL OF LADING/AIR BILL NO. N/A
 PRICE CODE 7N
 AIR QUALITY
 METHOD OF SHIPMENT GOVERNMENT VEHICLE
 DATA TURNAROUND 45 Days / 45 Days

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TR4	WATER	MAR 2 2000	1010

ICED

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	DATE/TIME	DATE/TIME
RELINQUISHED BY/REMOVED FROM FLUOR HANFORD D. E. PARCHEN	RECEIVED BY/STORED IN <i>[Signature]</i>	DATE/TIME MAR 2 2000	DATE/TIME 3/27/08
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	DATE/TIME	DATE/TIME
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	DATE/TIME	DATE/TIME
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	DATE/TIME	DATE/TIME
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	DATE/TIME	DATE/TIME
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	DATE/TIME	DATE/TIME
LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

SPECIAL INSTRUCTIONS
 **The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
 (1)VOA - 8260B (TCL); VOA - 8260B (Add-On) (1-Butanol, Trichloromonofluoromethane, cis-1,2-Dichloroethylene, n-Butylbenzene, trans-1,2-Dichloroethylene)