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FLUOR

Memorandum

To: H. Hampt E6-35 Date: M4W41-SLF-07-421
July 3, 2007

From: S. L. Fitzgerald, Manager *by William J. Baird*
WSCF Analytical Chemistry

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

Subject: FINAL RESULTS FOR SAMPLE DELIVERY GROUP WSCF20070761 – SAF NUMBER F07-045

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 WSCF20070761:

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

SLF/grf

Attachments 4



M4W41-SLF-07-421

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20070761
Data Deliverable Date: 18-jun-2007
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
F07-045	B1NF32	W07GR00862	WATER
	B1NF47	W07GR00863	WATER
	B1NF62	W07GR00861	WATER
	B1NF77	W07GR00864	WATER
	B1NF88	W07GR00866	WATER
	B1NFB3	W07GR00865	WATER

M4W41-SLF-07-421

ATTACHMENT 2

NARRATIVE

Consisting of 4 pages
Including cover page

Sample Delivery Group	WSCF20070761
Sample Matrix	Water
Data Deliverable	Summary Report

Introduction

Eight (8) samples groundwater samples were received at the WSCF Laboratory on May 3, 2007. All of the 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. However, it should be noted that the developmental analytical results (Tc-99 via ICP-MS) for two (2) of the samples (BINFJ9 and BINFH4) are documented in the case narrative below and are not included in the Data Summary section of this report.

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

Inorganic Comments

Anions – Hold time requirements for this analysis were met. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per GRP Letter of Instruction. See pages 18 through 19 for QC details. Analytical Notes:

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

All QC controls are within the established limits.

Total Alkalinity -- The hold time requirement for this analysis was met. A Duplicate and Laboratory Control Sample were analyzed with this delivery group per GRP Letter of Instruction. See page 20 for QC details.

All QC controls are within the established limits.

ICP-MS Metals – Identified below for review and information are draft developmental results for Technetium-99. (Results had been previously transmitted to GRP via e-mail, Tuesday, June 25, 2007).

Tc-99 via ICP-MS			
Sample Number	Lab Sample ID	Metal	
			ug/L
W07GR00867	B1NFJ9	Technetium-99	0.094
W07GR00868	B1NFH4	Technetium-99	Non detect

pH – The hold time requirement for this analysis was met. A Duplicate and Laboratory Control Sample were analyzed with this delivery group per the GRP Letter of Instruction. See page 23 for QC details. Analytical Note:

- Duplicate QC was analyzed on a non-GRP sample.

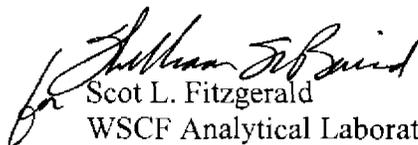
Organic Comments

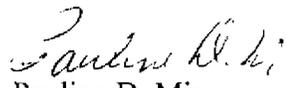
VOA – The hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample, were analyzed with this delivery group per the GRP Letter of Instruction. See pages 29 through 31 for QC details. Analytical Notes:

- Matrix Spike and Matrix Spike Duplicate were analyzed on sample# B1N741 (SDG# 20070753, SAF# F07-030).
- Sample results that were less than the lowest calibration standard, however greater than the method detection limit were J flagged.

All QC controls are within the established limits.

This Summary Report is in compliance with the SOW, both technically and for completeness. Release of the data contained in this hard copy report has been authorized by the WSCF Laboratory Analytical Manager and Client Services, as verified by the following signature.


 Scot L. Fitzgerald
 WSCF Analytical Laboratory Manager


 Pauline D. Mix
 WSCF Client Services

Abbreviations

Hg – mercury

IC – ion chromatography

ICP – inductively coupled plasma

ICP/AES – ICP/atomic emission spectroscopy

ICP/MS – ICP/mass spectrometry

Total U – total uranium

AT/TB – total alpha/total beta

AEA – Alpha Energy Analysis

WTPH-G – Total Hydrocarbons-Gasoline

Am – americium

Cm - curium

Pu – plutonium

Np – neptunium

GEA – gamma energy analysis

H3 – Tritium

Sr – Strontium 89, 90

WTPH-D – Total Hydrocarbons-Diesel

TSS – Total Suspended Solids

M4W41-SLF-07-421

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 24 pages
Including cover page

**WSCF
ANALYTICAL RESULTS REPORT**

for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical: *William Baird WW Baird 7/3/2007*
Client Services: *CDL, P.D. Mix 7/2/2007*

All results are reported on an "as received" basis unless otherwise noted in the comment section.

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Contract#: FH-EIS-2003-MEM-001
Report#: WSCF20070761
Report Date: 2-jul-2007
Report WGPP/ver. 5.2
Groundwater Remediation Program

Department: Inorganic

W13q Worklist/Batch/QC Report for Group# WSCF20070761

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
31766	2	32145	36222	BLANK		Anions by Ion Chromatography
31766	12	32145	36222	BLANK		Anions by Ion Chromatography
31766	3	32145	36222	LCS		Anions by Ion Chromatography
31766	8	32145	36222	SAMPLE	W07GR00861	Anions by Ion Chromatography
31766	9	32145	36222	SAMPLE	W07GR00862	Anions by Ion Chromatography
31766	5	32145	36222	DUP	W07GR00863	Anions by Ion Chromatography
31766	6	32145	36222	MS	W07GR00863	Anions by Ion Chromatography
31766	7	32145	36222	MSD	W07GR00863	Anions by Ion Chromatography
31766	4	32145	36222	SAMPLE	W07GR00863	Anions by Ion Chromatography
31766	7	32145	36222	SPK-RPD	W07GR00863	Anions by Ion Chromatography
31766	10	32145	36222	SAMPLE	W07GR00864	Anions by Ion Chromatography
31767	4	32146	36225	LCS		pH Direct Measurement
31767	6	32146	36225	DUP	W07GR00861	pH Direct Measurement
31767	5	32146	36225	SAMPLE	W07GR00861	pH Direct Measurement
31767	7	32146	36225	SAMPLE	W07GR00862	pH Direct Measurement
31767	8	32146	36225	SAMPLE	W07GR00863	pH Direct Measurement
31767	9	32146	36225	SAMPLE	W07GR00864	pH Direct Measurement
31829	1	32209	36301	LCS		Total Alkalinity as mg/L CaCO3
31829	13	32209	36301	LCS		Total Alkalinity as mg/L CaCO3
31829	25	32209	36301	LCS		Total Alkalinity as mg/L CaCO3
31829	33	32209	36301	LCS		Total Alkalinity as mg/L CaCO3
31829	3	32209	36301	DUP	W07GR00861	Total Alkalinity as mg/L CaCO3
31829	2	32209	36301	SAMPLE	W07GR00861	Total Alkalinity as mg/L CaCO3
31829	4	32209	36301	SAMPLE	W07GR00862	Total Alkalinity as mg/L CaCO3
31829	5	32209	36301	SAMPLE	W07GR00863	Total Alkalinity as mg/L CaCO3
31829	6	32209	36301	SAMPLE	W07GR00864	Total Alkalinity as mg/L CaCO3
31829	15	32209	36301	DUP	W07P000886	Total Alkalinity as mg/L CaCO3

Department: Organic

W13q Worklist/Batch/QC Report for Group# WSCF20070761

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
			36542	BLANK		VOA Ground Water Protection
			36542	LCS		VOA Ground Water Protection
			36542	MS	W07GR00858	VOA Ground Water Protection
			36542	MSD	W07GR00858	VOA Ground Water Protection
			36542	SPK-RPD	W07GR00858	VOA Ground Water Protection
			36542	SAMPLE	W07GR00861	VOA Ground Water Protection
			36542	SURR	W07GR00861	VOA Ground Water Protection
			36542	SAMPLE	W07GR00862	VOA Ground Water Protection
			36542	SURR	W07GR00862	VOA Ground Water Protection
			36542	SAMPLE	W07GR00863	VOA Ground Water Protection
			36542	SURR	W07GR00863	VOA Ground Water Protection
			36542	SAMPLE	W07GR00864	VOA Ground Water Protection
			36542	SURR	W07GR00864	VOA Ground Water Protection
			36542	SAMPLE	W07GR00865	VOA Ground Water Protection
			36542	SURR	W07GR00865	VOA Ground Water Protection
			36542	SAMPLE	W07GR00866	VOA Ground Water Protection
			36542	SURR	W07GR00866	VOA Ground Water Protection

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-212-402	Determination of pH Direct Measurement
	EPA SW-846 9040B pH ELECTROMETRIC MEASUREMENT
	EPA-600/4-79-020 150.1 pH
	HEIS 150.1_PH pH
LA-531-411	LA-531-411: ALKALINITY (TITRIMETRIC)
	HEIS 2320B Alkalinity
	Standard Methods 2320B Alkalinity
LA-533-410	LA-533-410: ANION ANALYSIS BY ION CHROMATOGRAPHY
	EPA-600/R-94-111 300.0 DETERMINATION OF INORGANIC ANIONS BY ION CHROMATOGRAPHY
	HEIS 300.0_ANIONS_IC Determination of Inorganic Anions by Ion Chromatography

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

WSCF

METHOD REFERENCES REPORT

Department: 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)

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: 2-jul-2007
Report#: WSCF20070761
Report WGPPM/5.2

Page 1

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-045
Sample # W07GR00862
Client ID: B1NF32

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20070761
Department: Inorganic
Sampled: 05/03/07
Received: 05/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	D	0.383	mg/L			2.00	0.013		05/04/07
Chloride	16887-00-6	LA-533-410	D	19.8	mg/L			51.00	0.82		05/04/07
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0144	mg/L			2.00	0.014		05/04/07
Bromide	24959-67-9	LA-533-410	BD	0.132	mg/L			2.00	0.064		05/04/07
Nitrogen in Nitrate	NO3-N	LA-533-410	D	94.8	mg/L			51.00	0.15		05/04/07
Phosphate (P) by IC	PO4-P	LA-533-410	DU	< 0.0700	mg/L			2.00	0.070		05/04/07
Sulfate	14808-79-8	LA-533-410	D	49.0	mg/L			2.00	0.11		05/04/07
Total Alkalinity as mg/L CaCO3											
Total Alkalinity as mg/L CaCO3	ALKALINITY	LA-531-411		120	mg/L			1.00	1.0		05/10/07
pH Measurement											
pH Measurement	PH	LA-212-402		7.25	pH			1.00	0.010		05/04/07

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 J - Analyte < lowest calibration but > = MDL.(org)
 U - Analyzed for but not detected above limiting criteria.(org)

D - Analyte was identified at a secondary 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: F07-045
Sample # W07GR00863
Client ID: B1NF47

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20070761
Department: Inorganic
Sampled: 05/03/07
Received: 05/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410		0.315	mg/L			1.00	6.5e-03		05/04/07
Chloride	16887-00-6	LA-533-410	D	25.6	mg/L			13.00	0.21		05/04/07
Nitrogen in Nitrite	NO2-N	LA-533-410	U	< 7.20e-03	mg/L			1.00	7.2e-03		05/04/07
Bromide	24959-67-9	LA-533-410	B	0.196	mg/L			1.00	0.032		05/04/07
Nitrogen in Nitrate	NO3-N	LA-533-410	D	31.5	mg/L			13.00	0.038		05/04/07
Phosphate (P) by IC	PO4-P	LA-533-410	U	< 0.0350	mg/L			1.00	0.035		05/04/07
Sulfate	14808-79-8	LA-533-410	D	49.7	mg/L			13.00	0.72		05/04/07
Total Alkalinity as mg/L CaCO3											
Total Alkalinity as mg/L CaCO3	ALKALINITY	LA-531-411		110	mg/L			1.00	1.0		05/10/07
pH Measurement											
pH Measurement	PH	LA-212-402		7.40	pH			1.00	0.010		05/04/07

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 J - Analyte < lowest calibration but > = MDL.(org)
 U - Analyzed for but not detected above limiting criteria.(org)

D - Analyte was identified at a secondary 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: F07-045
Sample # W07GR00864
Client ID: B1NF77

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20070761
Department: Inorganic
Sampled: 05/03/07
Received: 05/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410		0.313	mg/L			1.00	6.5e-03		05/04/07
Chloride	16887-00-6	LA-533-410	D	25.0	mg/L			20.00	0.32		05/04/07
Nitrogen in Nitrite	NO2-N	LA-533-410	U	< 7.20e-03	mg/L			1.00	7.2e-03		05/04/07
Bromide	24959-67-9	LA-533-410	B	0.202	mg/L			1.00	0.032		05/04/07
Nitrogen in Nitrate	NO3-N	LA-533-410	D	31.3	mg/L			20.00	0.058		05/04/07
Phosphate (P) by IC	PO4-P	LA-533-410	U	< 0.0350	mg/L			1.00	0.035		05/04/07
Sulfate	14808-79-8	LA-533-410	D	49.4	mg/L			20.00	1.1		05/04/07
Total Alkalinity as mg/L CaCO3											
Total Alkalinity as mg/L CaCO3	ALKALINITY	LA-531-411		110	mg/L			1.00	1.0		05/10/07
pH Measurement											
pH Measurement	PH	LA-212-402		7.42	pH			1.00	0.010		05/04/07

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

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

J - Analyte < lowest calibration but > = MDL.(org)

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

D - Analyte was identified at a secondary 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: WSCF20070761
 Matrix: WATER
 Test: Anions by Ion Chromatography

Sample Date: 05/03/07
 Receive Date: 05/03/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR00863											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Bromide	24959-67-9	0.1878		RPD			4.069	20.000		05/04/07
DUP	Chloride	16887-00-6	25.7016		RPD			0.568	20.000		05/04/07
DUP	Fluoride	16984-48-8	0.3016		RPD			4.315	20.000		05/04/07
DUP	Nitrogen in Nitrite	NO2-N	<7.2e-3		RPD			n/a	20.000	U	05/04/07
DUP	Nitrogen in Nitrate	NO3-N	31.4441		RPD			0.190	20.000		05/04/07
DUP	Phosphate (P) by iC	PO4-P	<3.5e-2		RPD			n/a	20.000	U	05/04/07
DUP	Sulfate	14808-79-8	49.1597		RPD			1.034	20.000		05/04/07
MS	Bromide	24959-67-9	1.9223	97.086	% Recov	75.000	125.000				05/04/07
MS	Chloride	16887-00-6	0.983485	99.342	% Recov	75.000	125.000				05/04/07
MS	Fluoride	16984-48-8	0.4887	97.351	% Recov	75.000	125.000				05/04/07
MS	Nitrogen in Nitrite	NO2-N	0.5357	108.661	% Recov	75.000	125.000				05/04/07
MS	Nitrogen in Nitrate	NO3-N	0.433315	96.079	% Recov	75.000	125.000				05/04/07
MS	Phosphate (P) by IC	PO4-P	0.8164	85.577	% Recov	75.000	125.000				05/04/07
MS	Sulfate	14808-79-8	1.986431	100.325	% Recov	75.000	125.000				05/04/07
MSD	Bromide	24959-67-9	1.9374	97.848	% Recov	75.000	125.000				05/04/07
MSD	Chloride	16887-00-6	0.988346	99.833	% Recov	75.000	125.000				05/04/07
MSD	Fluoride	16984-48-8	0.4954	98.685	% Recov	75.000	125.000				05/04/07
MSD	Nitrogen in Nitrite	NO2-N	0.54	109.533	% Recov	75.000	125.000				05/04/07
MSD	Nitrogen in Nitrate	NO3-N	0.434769	96.401	% Recov	75.000	125.000				05/04/07
MSD	Phosphate (P) by IC	PO4-P	0.8438	88.449	% Recov	75.000	125.000				05/04/07
MSD	Sulfate	14808-79-8	2.003546	101.189	% Recov	75.000	125.000				05/04/07
SPK-RPD	Bromide	24959-67-9	97.848		RPD			0.782	20.000		05/04/07
SPK-RPD	Chloride	16887-00-6	99.833		RPD			0.493	20.000		05/04/07
SPK-RPD	Fluoride	16984-48-8	98.685		RPD			1.361	20.000		05/04/07
SPK-RPD	Nitrogen in Nitrite	NO2-N	109.533		RPD			0.799	20.000		05/04/07
SPK-RPD	Nitrogen in Nitrate	NO3-N	96.401		RPD			0.335	20.000		05/04/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Inorganic**

SDG Number: WSCF20070761
 Matrix: WATER
 Test: Anions by Ion Chromatography

Sample Date: 05/03/07
 Receive Date: 05/03/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SPK-RPD	Phosphate (P) by IC	PO4-P	88.449		RPD			3.301	20.000		05/04/07
SPK-RPD	Sulfate	14808-79-8	101.189		RPD			0.858	20.000		05/04/07
BATCH QC											
BLANK	Bromide	24959-67-9	<3.2e-2	n/a	mg/L	0.000	0.100			U	05/04/07
BLANK	Bromide	24959-67-9	<3.2e-2	n/a	mg/L	0.000	0.100			U	05/04/07
BLANK	Chloride	16887-00-6	<1.6e-2	n/a	mg/L	0.000	0.030			U	05/04/07
BLANK	Chloride	16887-00-6	<1.6e-2	n/a	mg/L	0.000	0.030			U	05/04/07
BLANK	Fluoride	16984-48-8	<6.5e-3	n/a	mg/L	0.000	0.030			U	05/04/07
BLANK	Fluoride	16984-48-8	<6.5e-3	n/a	mg/L	0.000	0.030			U	05/04/07
BLANK	Nitrogen in Nitrite	NO2-N	<7.2e-3	n/a	mg/L	0.000	0.020			U	05/04/07
BLANK	Nitrogen in Nitrite	NO2-N	<7.2e-3	n/a	mg/L	0.000	0.020			U	05/04/07
BLANK	Nitrogen in Nitrate	NO3-N	<2.9e-3	n/a	mg/L	0.000	0.040			U	05/04/07
BLANK	Nitrogen in Nitrate	NO3-N	<2.9e-3	n/a	mg/L	0.000	0.040			U	05/04/07
BLANK	Phosphate (P) by IC	PO4-P	<3.5e-2	n/a	mg/L	0.000	0.200			U	05/04/07
BLANK	Phosphate (P) by IC	PO4-P	<3.5e-2	n/a	mg/L	0.000	0.200			U	05/04/07
BLANK	Sulfate	14808-79-8	<5.5e-2	n/a	mg/L	0.000	0.200			U	05/04/07
BLANK	Sulfate	14808-79-8	<5.5e-2	n/a	mg/L	0.000	0.200			U	05/04/07
LCS	Bromide	24959-67-9	392.944	98.236	% Recov	80.000	120.000				05/04/07
LCS	Chloride	16887-00-6	194.2569	97.128	% Recov	80.000	120.000				05/04/07
LCS	Fluoride	16984-48-8	100.3399	99.346	% Recov	80.000	120.000				05/04/07
LCS	Nitrogen in Nitrite	NO2-N	97.0812	97.471	% Recov	80.000	120.000				05/04/07
LCS	Nitrogen in Nitrate	NO3-N	89.3013	97.918	% Recov	80.000	120.000				05/04/07
LCS	Phosphate (P) by IC	PO4-P	188.5314	97.786	% Recov	80.000	120.000				05/04/07
LCS	Sulfate	14808-79-8	380.3945	95.099	% Recov	80.000	120.000				05/04/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20070761
 Matrix: WATER
 Test: Total Alkalinity as mg/L CaCO3

Sample Date: 05/03/07
 Receive Date: 05/03/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR00861											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Total Alkalinity as mg/L CaCO3	ALKALINITY	117		RPD			0.851	20.000		05/10/07
Lab ID: W07P000886											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Total Alkalinity as mg/L CaCO3	ALKALINITY	123		RPD			2.410	20.000		05/10/07
BATCH QC											
LCS	Total Alkalinity as mg/L CaCO3	ALKALINITY	45.36	101.250	%Recover	80.000	120.000				05/10/07
LCS	Total Alkalinity as mg/L CaCO3	ALKALINITY	44.2	98.661	%Recover	80.000	120.000				05/10/07
LCS	Total Alkalinity as mg/L CaCO3	ALKALINITY	42.07	93.906	%Recover	80.000	120.000				05/10/07
LCS	Total Alkalinity as mg/L CaCO3	ALKALINITY	44.66	99.688	%Recover	80.000	120.000				05/10/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20070761
Matrix: WATER
Test: pH Direct Measurement

Sample Date: 05/03/07
Receive Date: 05/03/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR00861 BATCH QC ASSOCIATED WITH SAMPLE											
DUP	pH Direct Measurement	PH	7.44		RPD			0.810	20.000		05/04/07
BATCH QC											
LCS	pH Direct Measurement	PH	7.97	0.996	Ratio	0.900	1.100				05/04/07

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-045
Sample # W07GR00861
Client ID: B1NF62

TRENT
WSCF

Matrix: WATER

Group #: WSCF20070761
Department: Organic
Sampled: 05/03/07
Received: 05/03/07

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		05/16/07
Trichloroethene	79-01-6	LA-523-455		7.30	ug/L			1.00	1.0		05/16/07
Benzene	71-43-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/16/07
Toluene	108-88-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/16/07
Chlorobenzene	108-90-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/16/07
Carbon tetrachloride	56-23-5	LA-523-455		2.30e+03	ug/L			1.00	20		05/17/07

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 J - Analyte < lowest calibration but > = MDL.(org)
 U - Analyzed for but not detected above limiting criteria.(org)

D - Analyte was identified at a secondary 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: F07-045
Sample # W07GR00862
Client ID: B1NF32

TRENT
WSCF

Matrix: WATER

Group #: WSCF20070761
Department: Organic
Sampled: 05/03/07
Received: 05/03/07

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		05/16/07
Trichloroethene	79-01-6	LA-523-455		6.90	ug/L			1.00	1.0		05/16/07
Benzene	71-43-2	LA-523-455	J	1.30	ug/L			1.00	1.0		05/16/07
Toluene	108-88-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/16/07
Chlorobenzene	108-90-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/16/07
Carbon tetrachloride	56-23-5	LA-523-455		2.20e + 03	ug/L			1.00	20		05/17/07

MDL= Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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

J - Analyte < lowest calibration but > = MDL.(org)

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

D - Analyte was identified at a secondary dilution factor

U - Analyzed for but not detected above limiting criteria.

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+ - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-045
Sample # W07GR00863
Client ID: BINF47

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20070761
Department: Organic
Sampled: 05/03/07
Received: 05/03/07

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		05/16/07
Trichloroethene	79-01-6	LA-523-455		7.10	ug/L			1.00	1.0		05/16/07
Benzene	71-43-2	LA-523-455	J	1.20	ug/L			1.00	1.0		05/16/07
Toluene	108-88-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/16/07
Chlorobenzene	108-90-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/16/07
Carbon tetrachloride	56-23-5	LA-523-455		2.10e + 03	ug/L			1.00	20		05/17/07

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 J - Analyte < lowest calibration but > = MDL.(org)
 U - Analyzed for but not detected above limiting criteria.(org)

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

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Report WGPP/ver. 5.2
 Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-045
Sample # W07GR00864
Client ID: B1NF77

TRENT
WSCF

Matrix: WATER

Group #: WSCF20070761
Department: Organic
Sampled: 05/03/07
Received: 05/03/07

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		05/16/07
Trichloroethene	79-01-6	LA-523-455		7.50	ug/L			1.00	1.0		05/16/07
Benzene	71-43-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/16/07
Toluene	108-BB-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/16/07
Chlorobenzene	108-90-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/16/07
Carbon tetrachloride	56-23-5	LA-523-455		2.10e+03	ug/L			1.00	20		05/17/07

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 J - Analyte < lowest calibration but > = MDL.(org)
 U - Analyzed for but not detected above limiting criteria.(org)

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

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Report WGPP/ver. 5.2
Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-045
Sample # W07GR00865
Client ID: B1NFB3

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20070761
Department: Organic
Sampled: 05/03/07
Received: 05/03/07

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		05/16/07
Trichloroethene	79-01-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/16/07
Benzene	71-43-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/16/07
Toluene	108-88-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/16/07
Chlorobenzene	108-90-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/16/07
Carbon tetrachloride	56-23-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/16/07

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

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

J - Analyte < lowest calibration but > = MDL.(org)

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

D - Analyte was identified at a secondary dilution factor

U - Analyzed for but not detected above limiting criteria.

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Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-045
Sample # W07GR00866
Client ID: B1NF88

TRENT
WSCF

Matrix: WATER

Group #: WSCF20070761
Department: Organic
Sampled: 05/03/07
Received: 05/03/07

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		05/16/07
Trichloroethene	79-01-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/16/07
Benzene	71-43-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/16/07
Toluene	108-88-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/16/07
Chlorobenzene	108-90-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/16/07
Carbon tetrachloride	56-23-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/16/07

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

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

J - Analyte < lowest calibration but > = MDL.(org)

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

D - Analyte was identified at a secondary dilution factor

U - Analyzed for but not detected above limiting criteria.

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Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

TENTATIVELY IDENTIFIED PEAK REPORT

Attention:
Project Number

Steve Trent
F07-045 :F07-045

Group #: WSCF20070761
Department: Organic

Sample #	Client ID	Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W07GR00861	B1NF62	TRENT	VOA Ground Water Protection	SMP 12.837 2-Butanone	78-93-3		12.83793	91 ug/L
W07GR00861	B1NF62	TRENT	VOA Ground Water Protection	SMP 13.464 Tetrahydrofuran	109-99-9		13.46491	35 ug/L
W07GR00861	B1NF62	TRENT	VOA Ground Water Protection	SMP 13.474 Chloroform	67-66-3		13.47456	13 ug/L
W07GR00862	B1NF32	TRENT	VOA Ground Water Protection	SMP 12.831 2-Butanone	78-93-3		12.83133	1.5e + 02 ug/L
W07GR00862	B1NF32	TRENT	VOA Ground Water Protection	SMP 13.464 Tetrahydrofuran	109-99-9		13.46475	63 ug/L
W07GR00862	B1NF32	TRENT	VOA Ground Water Protection	SMP 13.471 Chloroform	67-66-3		13.47118	13 ug/L
W07GR00863	B1NF47	TRENT	VOA Ground Water Protection	SMP 13.474 Chloroform	67-66-3		13.47461	11 ug/L
W07GR00864	B1NF77	TRENT	VOA Ground Water Protection	SMP 12.815 2-Butanone	78-93-3		12.81528	1.7e + 02 ug/L
W07GR00864	B1NF77	TRENT	VOA Ground Water Protection	SMP 13.461 Tetrahydrofuran	109-99-9		13.46155	74 ug/L
W07GR00864	B1NF77	TRENT	VOA Ground Water Protection	SMP 13.471 Chloroform	67-66-3		13.4712	12 ug/L

RQ=Result Qualifier

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Groundwater Remediation Program

WGPPPE v 5.2 Report#: WSCF20070761

Report Date: 2-Jul-2007

Page 1

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: WSCF20070761
 Matrix: WATER
 Test: VOA Ground Water Protection

Sample Date: 05/02/07
 Receive Date: 05/02/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR00858 BATCH QC ASSOCIATED WITH SAMPLE											
MS	1,1-Dichloroethene	75-35-4	25.050	100.000	% Recov	63.000	117.000				05/16/07
MS	Benzene	71-43-2	25.360	101.000	% Recov	75.000	129.000				05/16/07
MS	4-Bromofluorobenzene(Surr)	460-00-4	48.280	96.500	% Recov	84.000	116.000				05/16/07
MS	Chlorobenzene	108-90-7	25.940	104.000	% Recov	79.000	119.000				05/16/07
MS	1,2-Dichloroethane-d4(Surr)	17060-07-0	52.770	106.000	% Recov	82.000	136.000				05/16/07
MS	Toluene-d8(Surr)	2037-26-5	47.940	95.900	% Recov	89.000	119.000				05/16/07
MS	Toluene	108-88-3	25.180	101.000	% Recov	76.000	120.000				05/16/07
MS	Trichloroethene	79-01-6	21.850	87.400	% Recov	73.000	123.000				05/16/07
MSD	1,1-Dichloroethene	75-35-4	24.130	96.500	% Recov	63.000	117.000				05/16/07
MSD	Benzene	71-43-2	25.490	102.000	% Recov	75.000	129.000				05/16/07
MSD	4-Bromofluorobenzene(Surr)	460-00-4	48.460	96.900	% Recov	84.000	116.000				05/16/07
MSD	Chlorobenzene	108-90-7	26.160	105.000	% Recov	79.000	119.000				05/16/07
MSD	1,2-Dichloroethane-d4(Surr)	17060-07-0	52.040	104.000	% Recov	82.000	136.000				05/16/07
MSD	Toluene-d8(Surr)	2037-26-5	48.270	96.500	% Recov	89.000	119.000				05/16/07
MSD	Toluene	108-88-3	25.150	101.000	% Recov	76.000	120.000				05/16/07
MSD	Trichloroethene	79-01-6	21.210	84.800	% Recov	73.000	123.000				05/16/07
SPK-RPD	1,1-Dichloroethene	75-35-4	96.500		RPD			3.562	20.000		05/16/07
SPK-RPD	Benzene	71-43-2	102.000		RPD			0.985	20.000		05/16/07
SPK-RPD	Chlorobenzene	108-90-7	105.000		RPD			0.957	20.000		05/16/07
SPK-RPD	1,2-Dichloroethane-d4(Surr)	17060-07-0	104.000		RPD			1.905	20.000		05/16/07
SPK-RPD	Toluene-d8(Surr)	2037-26-5	96.500		RPD			0.624	20.000		05/16/07
SPK-RPD	Toluene	108-88-3	101.000		RPD			0.000	20.000		05/16/07
SPK-RPD	Trichloroethene	79-01-6	84.800		RPD			3.020	20.000		05/16/07

Lab ID: W07GR00861
BATCH QC ASSOCIATED WITH SAMPLE

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: WSCF20070761
 Matrix: WATER
 Test: VOA Ground Water Protection

Sample Date: 05/03/07
 Receive Date: 05/03/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SURR	4-Bromofluorobenzene(Surr)	460-00-4	47.990	96.000	% Recov	84.000	116.000				05/16/07
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	50.360	101.000	% Recov	82.000	136.000				05/16/07
SURR	Toluene-d8(Surr)	2037-26-5	48.830	97.700	% Recov	89.000	119.000				05/16/07
Lab ID: W07GR00862											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	4-Bromofluorobenzene(Surr)	460-00-4	47.850	95.700	% Recov	84.000	116.000				05/16/07
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	52.950	106.000	% Recov	82.000	136.000				05/16/07
SURR	Toluene-d8(Surr)	2037-26-5	47.720	95.400	% Recov	89.000	119.000				05/16/07
Lab ID: W07GR00863											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	4-Bromofluorobenzene(Surr)	460-00-4	48.370	96.700	% Recov	84.000	116.000				05/16/07
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	56.450	113.000	% Recov	82.000	136.000				05/16/07
SURR	Toluene-d8(Surr)	2037-26-5	49.210	98.400	% Recov	89.000	119.000				05/16/07
Lab ID: W07GR00864											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	4-Bromofluorobenzene(Surr)	460-00-4	48.600	97.200	% Recov	84.000	116.000				05/16/07
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	50.880	102.000	% Recov	82.000	136.000				05/16/07
SURR	Toluene-d8(Surr)	2037-26-5	48.060	96.100	% Recov	89.000	119.000				05/16/07
Lab ID: W07GR00865											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	4-Bromofluorobenzene(Surr)	460-00-4	47.900	95.800	% Recov	84.000	116.000				05/16/07
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	55.280	111.000	% Recov	82.000	136.000				05/16/07
SURR	Toluene-d8(Surr)	2037-26-5	48.490	97.000	% Recov	89.000	119.000				05/16/07
Lab ID: W07GR00866											
BATCH QC ASSOCIATED WITH SAMPLE											

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: WSCF20070761
 Matrix: WATER
 Test: VOA Ground Water Protection

Sample Date: 05/03/07
 Receive Date: 05/03/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SURR	4-Bromofluorobenzene(Surr)	460-00-4	48.860	97.700	% Recov	84.000	116.000				05/16/07
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	53.440	107.000	% Recov	82.000	136.000				05/16/07
SURR	Toluene-d8(Surr)	2037-26-5	49.090	98.200	% Recov	89.000	119.000				05/16/07
BATCH QC											
BLANK	1,1-Dichloroethene	75-35-4	< 1.0	n/a	ug/L					U	05/16/07
BLANK	Benzene	71-43-2	< 1.0	n/a	ug/L					U	05/16/07
BLANK	4-Bromofluorobenzene(Surr)	460-00-4	48.900	97.800	% Recov	84.000	116.000				05/16/07
BLANK	Carbon tetrachloride	56-23-5	< 1.0	n/a	ug/L					U	05/16/07
BLANK	Chlorobenzene	108-90-7	< 1.0	n/a	ug/L					U	05/16/07
BLANK	1,2-Dichloroethane-d4(Surr)	17060-07-0	52.440	105.000	% Recov	82.000	136.000				05/16/07
BLANK	Toluene-d8(Surr)	2037-26-5	48.390	96.800	% Recov	89.000	119.000				05/16/07
BLANK	Toluene	108-88-3	< 1.0	n/a	ug/L					U	05/16/07
BLANK	Trichloroethene	79-01-6	< 1.0	n/a	ug/L					U	05/16/07
LCS	1,1-Dichloroethene	75-35-4	23.060	92.200	% Recov	70.000	130.000				05/16/07
LCS	Benzene	71-43-2	25.840	103.000	% Recov	70.000	130.000				05/16/07
LCS	4-Bromofluorobenzene(Surr)	460-00-4	48.020	96.000	% Recov	84.000	116.000				05/16/07
LCS	Chlorobenzene	108-90-7	25.840	103.000	% Recov	70.000	130.000				05/16/07
LCS	1,2-Dichloroethane-d4(Surr)	17060-07-0	55.120	110.000	% Recov	82.000	136.000				05/16/07
LCS	Toluene-d8(Surr)	2037-26-5	47.280	94.600	% Recov	89.000	119.000				05/16/07
LCS	Toluene	108-88-3	25.580	102.000	% Recov	70.000	130.000				05/16/07
LCS	Trichloroethene	79-01-6	20.320	81.300	% Recov	70.000	130.000				05/16/07

M4W41-SLF-07-421

ATTACHMENT 4

SAMPLE RECEIPT INFORMATION

Consisting of 10 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

6/18/07

File KB

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program

Richland, WA 99354
 Attn: Steve Trent

Customer Code: GPP
 PO#: 122597/ES10
 Group#: 20070761
 Project#: F07-045
 Proj Mgr: Steve Trent G6-35
 Phone: 373-5869

The following samples were received from you on 05/03/07. 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
W07GR00861	B1NF62	TRENT @IC-30 @TC99-30	Water @VOA-GPP	05/03/07
W07GR00862	B1NF32	TRENT @IC-30 @TC99-30	Water @VOA-GPP	05/03/07
W07GR00863	B1NF47	TRENT @IC-30 @TC99-30	Water @VOA-GPP	05/03/07
W07GR00864	B1NF77	TRENT @IC-30 @TC99-30	Water @VOA-GPP	05/03/07
W07GR00865	B1NFB3	TRENT @VOA-GPP	Water	05/03/07
W07GR00866	B1NF88	TRENT @VOA-GPP	Water	05/03/07
W07GR00867	B1NFI9	TRENT	Water	05/03/07
W07GR00868	B1NFH4	TRENT	Water	05/03/07

Test Acronym Description

Test Acronym	Description
@IC-30	Anions by Ion Chromatography
@TC99-30	TC99 by Liquid Scin.
@VOA-GPP	VOA Ground Water Protection
ALKALI	Total Alkalinity as mg/L CaCO3
PH-30	pH Direct Measurement

COLLECTOR: Mehrer/Hocking
 COMPANY CONTACT: Trent, SJ
 TELEPHONE NO.: 373-5869
 PROJECT COORDINATOR: TRENT, SJ
 PRICE CODE: 7N
 DATA TURNAROUND: 45 Days / 45 Days

SAMPLING LOCATION: I-765-eff-3
 PROJECT DESIGNATION: Purolite Resin Treatability Test - 200-ZP-1 OU
 SAF NO.: F07-045
 AIR QUALITY:

ICE CHEST NO.:
 FIELD LOGBOOK NO.:
 COA: 122597ES10
 METHOD OF SHIPMENT: GOVERNMENT VEHICLE
 SHIPPED TO: Waste Sampling & Characterization
 OFFSITE PROPERTY NO.: N/A
 BILL OF LADING/AIR BILL NO.: N/A

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	HCl or H2SO4 to pH <2/Cool 4C	Cool 4C	Cool 4C	None	HCl to pH <2
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WT=Wipe X=Other	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)		aGs*	P	G/P	G/P	G/P
		NO. OF CONTAINER(S)	1	1	1	2	
		VOLUME	40mL	120mL	120mL	120mL	1000mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	MOA - 82508 (TCL) (Carbon tetrachloride)	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Alkalinity - 310.1;	pH - 150.1;	Technetium-99 (Technetium-99)

20070761

ICED
 Initial Date

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B1NF62	WATER	5/3/07	1330	✓	✓	✓	✓	✓
W076200861								

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM: M. A. Hocking DATE/TIME: 5/3/07	RECEIVED BY/STORED IN: [Signature] DATE/TIME: 5/3/07	** WSCF will NOT initiate liquid scintillation analysis of Tc-99 samples until directed to do so by S&GRP Sample and Data Management.
RELINQUISHED BY/REMOVED FROM:	RECEIVED BY/STORED IN:	** WSCF will be provided with samples to be used for the development of the Tc-99 by ICP/MS method. S&GRP will not be charged for this method development work. (1)IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorus in phosphate, Sulfate}
RELINQUISHED BY/REMOVED FROM:	RECEIVED BY/STORED IN:	
RELINQUISHED BY/REMOVED FROM:	RECEIVED BY/STORED IN:	
RELINQUISHED BY/REMOVED FROM:	RECEIVED BY/STORED IN:	
RELINQUISHED BY/REMOVED FROM:	RECEIVED BY/STORED IN:	

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

34 of 41

COLLECTOR Mehrer/Hocking		COMPANY CONTACT Trent, SJ		TELEPHONE NO. 373-5869		PROJECT COORDINATOR TRENT, SJ		PRICE CODE 7N		DATA TURNAROUND 45 Days / 45 Days		
SAMPLING LOCATION I-765-in-3		PROJECT DESIGNATION Purilite Resin Treatability Test - 200-ZP-1 OU				SAF NO. F07-045		AIR QUALITY				
ICE CHEST NO.		FIELD LOGBOOK NO.		COA 122597ES10		METHOD OF SHIPMENT GOVERNMENT VEHICLE						
SHIPPED TO Waste Sampling & Characterization		OFFSITE PROPERTY NO. N/A				BILL OF LADING/AIR BILL NO. N/A						
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WJ=Wipe X=Other		POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)		PRESERVATION HCl or H2SO4 to pH <2/Cool 4C		Cool 4C	Cool 4C	None	HCl to pH <2			
				TYPE OF CONTAINER		P	G/P	G/P	G/P			
				NO. OF CONTAINER(S)		1	1	1	2			
				VOLUME		40mL	120mL	120mL	120mL	1000mL		
		SPECIAL HANDLING AND/OR STORAGE		SAMPLE ANALYSIS		VOA - 8260B (TCL) (Carbon tetrachloride)	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Alkalinity - 310.1;	pH - 150.1;		Technetium-99 (Technetium-99)	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME						
B1NF32	WATER	5/3/07	1320	✓	✓	✓	✓	✓	

USED Initial Date

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/ REMOVED FROM	DATE/TIME	RECEIVED BY/ STORED IN	DATE/TIME	** WSCF will NOT initiate liquid scintillation analysis of Tc-99 samples until directed to do so by S&GRP Sample and Data Management.	
MS Hocking	5/3/07	[Signature]	5/3/07 1430		
RELINQUISHED BY/ REMOVED FROM	DATE/TIME	RECEIVED BY/ STORED IN	DATE/TIME	** WSCF will be provided with samples to be used for the development of the Tc-99 by ICP/MS method. S&GRP will not be charged for this method development work. (1)IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorus in phosphate, Sulfate}	
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
	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

35 of 41

COLLECTOR Mehrer/Hocking		COMPANY CONTACT Trent, SJ		TELEPHONE NO. 373-5869		PROJECT COORDINATOR Trent, SJ		PRICE CODE 7N		DATA TURNAROUND 45 Days / 45 Days	
SAMPLING LOCATION I-44-in-3		PROJECT DESIGNATION Puralite Resin Treatability Test - 200-ZP-1 OU		SAF NO. F07-045		AIR QUALITY					
ICE CHEST NO.		FIELD LOGBOOK NO.		COA 122597ES10		METHOD OF SHIPMENT GOVERNMENT VEHICLE					
SHIPPED TO Waste Sampling & Characterization		OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A							
MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	HCl or H2SO4 to pH <2/Cool 4C	Cool 4C	Cool 4C	None	HCl to pH <2				
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	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)	TYPE OF CONTAINER	aGs*	P	G/P	G/P	G/P				
		NO. OF CONTAINER(S)	3 MS-3 07 13	1	1	1	2				
		VOLUME	40mL	120mL	120mL	120mL	1000mL				
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 82608 (TCL) (Carbon tetrachloride)	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Alkalinity - 3.0.1;	pH - 150.1;	Technetium-99 (Technetium-99)				

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME				
B1NF47 863	WATER	5/3/07	1300	-	-	-	-

ICED
 Initial Date

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
MS Hocking	5/3/07 1430	[Signature]	5/3/07 1430
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** WSCF will NOT initiate liquid scintillation analysis of Tc-99 samples until directed to do so by S&GRP Sample and Data Management.

** WSCF will be provided with samples to be used for the development of the Tc-99 by ICP/MS method. S&GRP will not be charged for this method development work. (1)IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorus in phosphate, Sulfate}

36 of 41	LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
	FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

COLLECTOR Mehrer/Hocking		COMPANY CONTACT Trent, SJ		TELEPHONE NO. 373-5869		PROJECT COORDINATOR Trent, SJ		PRICE CODE 7N		DATA TURNAROUND 45 Days / 45 Days		
SAMPLING LOCATION I-44-eff-3		PROJECT DESIGNATION Purolite Resin Treatability Test - 200-ZP-1 OU				SAF NO. F07-045		AIR QUALITY				
ICE CHEST NO.		FIELD LOGBOOK NO.		COA 122597ES10		METHOD OF SHIPMENT GOVERNMENT VEHICLE						
SHIPPED TO Waste Sampling & Characterization		OFFSITE PROPERTY NO. N/A				BILL OF LADING/AIR BILL NO. N/A						
MATRIX* A=Air DL=Drum L=Liquid DS=Drum S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other		POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)		PRESERVATION HCl or H2SO4 to pH <2/Cool 4C		Cool 4C	Cool 4C	None	HCl to pH <2			
				TYPE OF CONTAINER aGs*		p	G/P	G/P	G/P			
				NO. OF CONTAINER(S) 3 MSA 5/3/07		1	1	1	2			
				VOLUME 40mL		120mL	120mL	120mL	1000mL			
SPECIAL HANDLING AND/OR STORAGE		SAMPLE ANALYSIS		YOA - 8260B (TCL) (Carbon tetrachloride)		SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Alkalinity 310.1	pH - 150.1	Technetium-99 (Technetium-99)			

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME						
B1NF77	WATER	5/3/07	1250	✓	✓	✓	✓	✓	✓

ICED

 Initial
 Date

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	** WSCF will NOT initiate liquid scintillation analysis of Tc-99 samples until directed to do so by S&GRP Sample and Data Management. ** WSCF will be provided with samples to be used for the development of the Tc-99 by ICP/MS method. S&GRP will not be charged for this method development work. (1)IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorus in phosphate, Sulfate}	
MS Hocking / [Signature]	5/3/07 1430	[Signature]	5/3/07 1430		
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

37 of 41

COLLECTOR Mehrer/Hocking	COMPANY CONTACT Trent, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 7N	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION I-765-in-3	PROJECT DESIGNATION Purolite Resin Treatability Test - 200-ZP-1 OU		SAF NO. F07-045	AIR QUALITY	
ICE CHEST NO.	FIELD LOGBOOK NO.	COA 122597ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE		
SHIPPED TO Waste Sampling & Characterization	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A			

MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WT=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION HCl or H2SO4 to pH <2/Cool 4C	TYPE OF CONTAINER BGS*						
		NO. OF CONTAINER(S) 3	VOLUME 40mL						
SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS VOA - 8260B (TCL) (Carbon tetrachloride)								

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	ICED Initial Date
B1NFB3 JMS	WATER	5-3-07	1130 ✓	5/3/07

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES	DATE/TIME
RELINQUISHED BY/REMOVED FROM J. Mehre	DATE/TIME 5-3-07 1430	RECEIVED BY/STORED IN [Signature]	DATE/TIME 5/3/07 1430
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** WSCF will NOT initiate liquid scintillation analysis of Tc-99 samples until directed to do so by S&GRP Sample and Data Management.

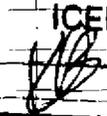
** WSCF will be provided with samples to be used for the development of the Tc-99 by ICP/MS method. S&GRP will not be charged for this method development work.

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

38 of 41

COLLECTOR Mehrer/Hocking	COMPANY CONTACT Trent, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 7N	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION I-44-in-3	PROJECT DESIGNATION Purilite Resin Treatability Test - 200-ZP-1 OU	SAF NO. F07-045	AIR QUALITY		
ICE CHEST NO.	FIELD LOGBOOK NO.	COA 122597ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE		
SHIPPED TO Waste Sampling & Characterization	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A			
MATRIX* A=Air OL=Drum L=Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION HCl or H2SO4 to pH <2/Cool 4C aGs*	TYPE OF CONTAINER		
			NO. OF CONTAINER(S) 13 msh 5/3/07		
			VOLUME 40mL		
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS VOA - 8260B (TCL) (Carbon tetrachloride)			

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1NF88 Sled	WATER	5/3/07	1120	✓

ICED

 Initial Date

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM M J Hocking	RECEIVED BY/STORED IN Bate	** WSCF will NOT initiate liquid scintillation analysis of Tc-99 samples until directed to do so by S&GRP Sample and Data Management.
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	** WSCF will be provided with samples to be used for the development of the Tc-99 by ICP/MS method. S&GRP will not be charged for this method development work.
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	

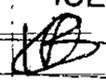
LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

39 of 41

COLLECTOR Mehrer/Hocking	COMPANY CONTACT Trent, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 7N	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION I-44-in-3	PROJECT DESIGNATION Purolite Resin Treatability Test - 200-ZP-1 OU		SAF NO. F07-045	AIR QUALITY	
ICE CHEST NO.	FIELD LOGBOOK NO.	COA 122597E510	METHOD OF SHIPMENT GOVERNMENT VEHICLE		
SHIPPED TO Waste Sampling & Characterization	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A			

MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION HNO3 to pH <2(ULTREX)	TYPE OF CONTAINER Nalgene	NO. OF CONTAINER(S) 1	VOLUME 500mL	SAMPLE ANALYSIS Tc-99 by ICPMS (Technetium-99)
SPECIAL HANDLING AND/OR STORAGE						

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1NFJ9 <i>SM</i>	WATER	5/3/07	1300 ✓	

ICED

 Initial Date

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM <i>MJ HOCKING</i>	DATE/TIME <i>5/3/07 1430</i>	RECEIVED BY/STORED IN <i>[Signature]</i>	DATE/TIME <i>5/3/07 1430</i>
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** WSCF will NOT initiate liquid scintillation analysis of Tc-99 samples until directed to do so by S&GRP Sample and Data Management.

** WSCF will be provided with samples to be used for the development of the Tc-99 by ICP/MS method. S&GRP will not be charged for this method development work.

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

40 of 41

COLLECTOR Mehrer/Hocking	COMPANY CONTACT Trent, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 7N	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION I-765-in-3	PROJECT DESIGNATION Purolite Resin Treatability Test - 200-ZP-1 OU		SAF NO. F07-045	AIR QUALITY	
ICE CHEST NO.	FIELD LOGBOOK NO.	COA 122597E510	METHOD OF SHIPMENT GOVERNMENT VEHICLE		
SHIPPED TO Waste Sampling & Characterization	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A			

MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION HNO3 to pH <2(ULTREX)	TYPE OF CONTAINER Nalgene	NO. OF CONTAINER(S) 1	VOLUME 500mL	SAMPLE ANALYSIS Tc-99 by ICPMS (Technetium-99)
SPECIAL HANDLING AND/OR STORAGE						

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME						
B1NFH4	WATER	5/3/07	1320	✓					

ICED
 Initial
 Date

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/ REMOVED FROM	DATE/TIME	RECEIVED BY/ STORED IN	DATE/TIME	** WSCF will NOT initiate liquid scintillation analysis of Tc-99 samples until directed to do so by S&GRP Sample and Data Management. ** WSCF will be provided with samples to be used for the development of the Tc-99 by ICP/MS method. S&GRP will not be charged for this method development work.
MJ HOLLING / Hocking	5/3/07 1430	[Signature]	5/3/07 1430	
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	

41 of 41

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