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WSCF Analytical Chemistry
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Memorandum

M8141-SLF-05-116

To: S. J. Trent A0-21 Date: March 8, 2005

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

cc:	w/Attachments		w/o Attachments	
	T. F. Dale	S3-28	D. J. Hart	S3-30
	H. K. Meznarich	S3-30	M. A. Neely	S3-30
	P. D. Mix	S3-30	H. S. Rich	S3-28
	J. E. Trechter	S3-30	L. C. Swanson	E6-35
			File/LB	

Subject: FINAL RESULTS FOR 200-MW-1 CHARACTERIZATION SAMPLING AND ANALYSIS - SOIL– SAMPLE DELIVERY GROUP WSCF20050278 – SAF NUMBER F04-015

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

(2) HNF-SD-CD-QAPP-017, Rev. 6, Waste Sampling & Characterization Facility Quality Assurance Plan

This letter contains a narrative (Attachment 1) for sample delivery group WSCF20050278, the analytical results (Attachment 2), and the sample receipt information (Attachment 3).

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Attachments 3

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M8141-SLF-05-116

ATTACHMENT 1

NARRATIVE

Consisting of 6 pages
Including cover page

Sample Delivery Group	**WSCF20050278**
Sample Matrix	**Soil**
Sample Visual	**N/A**
SAF Number	**F04-015**
Data Deliverable	**Summary Report**

Introduction

One (1) 200-MW-1 Characterization Sampling and Analysis – Soil/216-T-33, 47.5' – 50', sample (B19PN0) was received at the WSCF Laboratory on January 4, 2005. The sample was analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Groundwater Remediation Program – Letter of Instruction*, referenced in the cover letter.

The narrative (Attachment 1) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 2) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information. Copies of the Chain of Custody and sample receipt forms are included as Attachment 3.

Analytical Methodology for Requested Analyses

Inorganic

- Anions by EPA Method 300. Analytical work was performed with no deviations to the approved method.
- Cyanide by EPA Method 335.2. Analytical work was performed with no deviations to the approved method.
- ICP-MS Metals by EPA Method 200.8. Analytical work was performed with no deviations to the approved method.
- Percent Solids by EPA Method 160.3. Analytical work was performed with no deviations to the approved method.
- pH by EPA Method 9045C. Analytical work was performed with no deviations to the approved method.

Organic

- PCB by EPA Method 8082. Analytical work was performed with no deviations to the approved method.

- Semi-VOA by EPA Method 8270C. Analytical work was performed with no deviations to the approved method.

- TPH Diesel/Gas Range by WDOE Method NWTPH-Dx/Gx. Analytical work was performed with no deviations to the approved method.

- VOA by EPA Method 8260B. Analytical work was performed with no deviations to the approved method.

Radiochemistry

- All RadChem analyses (AEA (Plutonium, Americium and Uranium), GEA, Sr-89/90) were run by internal WDOE accredited WSCF procedures. Analytical work was performed with no deviations to the approved method.

Inorganic Comments

Anions - The hold times for Nitrite and Nitrate analyses were not met. A Blank, Laboratory Control Sample, Duplicate, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per GPP Letter of Instruction. See pages 11 through 12 for QC details. Analytical Notes:

- Preparation Date: 17-feb-2005.

- Nitrate - Sample B19PN0 result was B-flagged; the analyte was less than the reportable detection limit, but greater than or equal to the method detection limit.

- Duplicate, Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B19PN2 (SDG# 20050300, SAF# F04-015).

All QC controls are within the established limits.

Cyanide- The hold time for this analysis was met. A Blank, Preparation Blank, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per GPP Letter of Instruction. See page 13 for QC details. Analytical Notes:

- Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B19PM5 (SDG# 20050265, SAF# F04-015).

- The Matrix and Matrix Spike Duplicate recoveries were below established laboratory limits. The sample B19PN0 result was below the detection limit and U-flagged.

All other QC controls are within the established limits.

ICP-MS Metals – The hold time for this analysis was met. A Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See pages 14 through 15 for QC details. Analytical Note:

- Preparation Date: 14-feb-2005.

All QC controls are within the established limits.

Percent Solids – Analyzed for organic results correction.

pH – The hold time for this analysis was met. All internal laboratory controls were within established limits.

Organic Comments

- Sample results were moisture corrected and reported on a dry-weight basis.

PCB – The hold time for this analysis was met. A Blank, Duplicate, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See pages 19 through 20 for QC details. Analytical Notes:

- Preparation Date: 17-feb-2005.

- Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B19407 (SDG# 20050388, SAF# F03-025).

All QC controls are within the established limits.

Semi-VOA – The hold time for this analysis was met. A Blank, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See pages 21 through 24 for QC details. Analytical Notes:

- Preparation Date: 17-feb-2005.

- Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B19407 (SDG# 20050388, SAF# F03-025).

All QC controls are within the established limits.

TPHD-WA - The hold time for this analysis was met. A Blank, Laboratory Control Sample, Matrix Spike and Matrix Spike Duplicate were analyzed with each delivery group per GPP Letter of Instruction. See page 25 for QC details. Analytical Notes:

- Preparation Date: 17-feb-2005.

- Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B19407 (SDG# 20050388, SAF# F03-025).

All QC controls are within the established limits.

TPHG-WA - The hold time for this analysis was met. A Blank, Duplicate, Laboratory Control Sample, Matrix Spike and Matrix Spike Duplicate were analyzed with each delivery group per GPP Letter of Instruction. See page 26 for QC details. Analytical Note:

- Preparation Date: 18-feb-2005.

All QC controls are within the established limits.

VOA – The hold time for this analysis was met. A Blank, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See pages 27 through 29 for QC details. Analytical Note:

- Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B19PM7 (SDG# 20050265, SAF# F04-015).

All QC controls are within the established limits.

Radiochemistry Comments

RadChem – There are no hold times associated with these WDOE accredited methods. A Blank, Laboratory Control Sample and Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See pages 31 through 35 for QC details. Analytical Note:

- Americium-241, Plutonium-239/240, Strontium-89/90 and Uranium-238 - Duplicate QC samples were analyzed on sample# B1B3R1 (SDG# 20050251, SAF# F04-019).

All QC controls are within the established limits.

Radiochemical Tracer Percent Recovery

Sample Number	Lab Sample ID	Isotope	Tracer Recovery (Percent)
BLANK		Sr-85	95.3
LCS		Sr-85	97.7
B1B3R1	W050000288	Sr-85	90.5
DUPLICATE	W050000288	Sr-85	100.3
B19PN0	W050000340	Sr-85	96.2
BLANK		Am-243	74.4
LCS		Am-243	79.6
B1B3R1	W050000288	Am-243	82.8

Radiochemical Tracer Percent Recovery			
Sample Number	Lab Sample ID	Isotope	Tracer Recovery (Percent)
DUPLICATE	W050000288	Am-243	85.5
B19PN0	W050000340	Am-243	84.6
BLANK		Pu-242	89.9
LCS		Pu-242	84.8
B1B3R1	W050000288	Pu-242	86.7
DUPLICATE	W050000288	Pu-242	83.6
B19PN0	W050000340	Pu-242	91.3
BLANK		U-232	68.3
LCS		U-232	88.5
B1B3R1	W050000288	U-232	78.3
DUPLICATE	W050000288	U-232	77.5
B19PN0	W050000340	U-232	85.8

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.

Herlene S. Rich
WSCF Production Control

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

M8141-SLF-05-116

ATTACHMENT 2

ANALYTICAL RESULTS

Consisting of 34 pages
Including cover page

WSCF
ANALYTICAL RESULTS REPORT

for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical: S. Fitzgerald

Client Services: John Trechter (John Trechter)

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

Confidentiality Notice: The information contained in this report is privileged and confidential information intended only for the use of the addressee. If the reader of this report is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone at (509) 373-7020.

Contract#: FH-EIS-2003-MEM-001
Report#: WSCF20050278
Report Date: 7-mar-2005
Report WGPP/ver. 1.1
Groundwater Remediation Program

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F04-015: F04-015

Group #: WSCF20050278

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
Inorganic														
W050000340	B19PN0	TRENT	57-12-5	Cyanide	SOIL	LA-695-402	U	< 0.200	mg/kg	1.00	0.20	02/22/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	TS	Total solids	SOIL	LA-519-412		95.9	%	1.00	0.0	02/10/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	PH	pH Measurement	SOIL	LA-212-411		8.94	pH	1.00	0.010	02/10/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	16984-48-8	Fluoride	SOIL	LA-533-410	U	< 1.13	mg/kg	49.00	1.1	02/17/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	NO2-N	Nitrogen in Nitrite	SOIL	LA-533-410	U	< 0.931	mg/kg	49.00	0.93	02/17/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	NO3-N	Nitrogen in Nitrate	SOIL	LA-533-410	B	3.95	mg/kg	49.00	0.64	02/17/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	PO4-P	Phosphate (P) by IC	SOIL	LA-533-410	U	< 2.65	mg/kg	49.00	2.6	02/17/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	14808-79-8	Sulfate	SOIL	LA-533-410		52.0	mg/kg	49.00	4.9	02/17/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	7440-22-4	Silver	SOIL	LA-505-412	U	< 1.99	mg/kg	9.93	2.0	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	7440-43-9	Cadmium	SOIL	LA-505-412	U	< 0.993	mg/kg	9.93	0.99	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	7440-47-3	Chromium	SOIL	LA-505-412		14.5	mg/kg	9.93	3.0	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	7440-50-8	Copper	SOIL	LA-505-412		13.1	mg/kg	9.93	5.0	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	7439-92-1	Lead	SOIL	LA-505-412	U	< 11.9	mg/kg	9.93	12	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	7439-97-6	Mercury	SOIL	LA-505-412	U	< 0.993	mg/kg	9.93	0.99	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	7440-61-1	Uranium	SOIL	LA-505-412	U	< 0.993	mg/kg	9.93	0.99	02/15/05	02/04/05	02/04/05

MDL=Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorganic) U - Analyzed for but not detected above limiting criteria.
RQ=Result Qualifier

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

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050278
Matrix: SOLID
Test: Anions by Ion Chromatography

SAF Number: F04-015
Sample Date: 02/07/05
Receive Date:02/07/05

Lab ID: W050000410

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
DUP	Fluoride	16984-48-8	<1.15e0	n/a	RPD	02/17/05	0.000	20.000	U
DUP	Nitrogen in Nitrite	NO2-N	<9.50e-1	n/a	RPD	02/17/05	0.000	20.000	U
DUP	Nitrogen in Nitrate	NO3-N	1.01e+01	4.831	RPD	02/17/05	0.000	20.000	
DUP	Phosphate (P) by IC	PO4-P	<2.70e0	n/a	RPD	02/17/05	0.000	20.000	U
DUP	Sulfate	14808-79-8	<5.00e0	n/a	RPD	02/17/05	0.000	20.000	U
MS	Fluoride	16984-48-8	4.77e-01	96.559	% Recov	02/17/05	75.000	125.000	
MS	Nitrogen in Nitrite	NO2-N	5.24e-01	104.800	% Recov	02/17/05	75.000	125.000	
MS	Nitrogen in Nitrate	NO3-N	4.43e-01	98.226	% Recov	02/17/05	75.000	125.000	
MS	Phosphate (P) by IC	PO4-P	8.86e-01	91.434	% Recov	02/17/05	75.000	125.000	
MS	Sulfate	14808-79-8	2.00e+00	100.000	% Recov	02/17/05	75.000	125.000	
MSD	Fluoride	16984-48-8	4.83e-01	97.773	% Recov	02/17/05	75.000	125.000	
MSD	Nitrogen in Nitrite	NO2-N	5.26e-01	105.200	% Recov	02/17/05	75.000	125.000	
MSD	Nitrogen in Nitrate	NO3-N	4.55e-01	100.887	% Recov	02/17/05	75.000	125.000	
MSD	Phosphate (P) by IC	PO4-P	8.88e-01	91.641	% Recov	02/17/05	75.000	125.000	
MSD	Sulfate	14808-79-8	2.04e+00	102.000	% Recov	02/17/05	75.000	125.000	

BATCH QC

BLANK	Fluoride	16984-48-8	<2.30e-2	n/a	mg/L	02/17/05	0.000	300.000	U
BLANK	Fluoride	16984-48-8	<2.30e-2	n/a	mg/L	02/17/05	0.000	300.000	U
BLANK	Nitrogen in Nitrite	NO2-N	<1.90e-2	n/a	mg/L	02/17/05	0.000	300.000	U
BLANK	Nitrogen in Nitrite	NO2-N	<1.90e-2	n/a	mg/L	02/17/05	0.000	300.000	U
BLANK	Nitrogen in Nitrate	NO3-N	<1.30e-2	n/a	mg/L	02/17/05	0.000	300.000	U
BLANK	Nitrogen in Nitrate	NO3-N	<1.30e-2	n/a	mg/L	02/17/05	0.000	300.000	U
BLANK	Phosphate (P) by IC	PO4-P	<5.40e-2	n/a	mg/L	02/17/05	0.000	300.000	U
BLANK	Phosphate (P) by IC	PO4-P	<5.40e-2	n/a	mg/L	02/17/05	0.000	300.000	U
BLANK	Sulfate	14808-79-8	<1.00e-1	n/a	mg/L	02/17/05	0.000	300.000	U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050278
Matrix: SOLID
Test: Anions by Ion Chromatography

SAF Number: F04-015
Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Sulfate	14808-79-8	<1.00e-1	n/a	mg/L	02/17/05	0.000	300.000	U
LCS	Fluoride	16984-48-8	1.04e+02	105.370	% Recov	02/17/05	80.000	120.000	
LCS	Nitrogen in Nitrite	NO2-N	1.01e+02	101.000	% Recov	02/17/05	80.000	120.000	
LCS	Nitrogen in Nitrate	NO3-N	9.27e+01	102.886	% Recov	02/17/05	80.000	120.000	
LCS	Phosphate (P) by IC	PO4-P	1.88e+02	97.007	% Recov	02/17/05	80.000	120.000	
LCS	Sulfate	14808-79-8	3.89e+02	97.494	% Recov	02/17/05	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050278
Matrix: SOLID
Test: Cyanide by Midi/Spectrophotom

SAF Number: F04-015
Sample Date: 02/03/05
Receive Date:02/03/05

Lab ID: W050000296

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MS	Cyanide by Midi/Spectrophotom	57-12-5	74.1	74.100	% Recov	02/22/05	75.000	125.000	*
MSD	Cyanide by Midi/Spectrophotom	57-12-5	72.1	72.100	% Recov	02/22/05	75.000	125.000	*
SPK-RPD	Cyanide by Midi/Spectrophotom	57-12-5	89.100	18.382	RPD	02/22/05	0.000	20.000	

BATCH QC

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Cyanide by Midi/Spectrophotom	57-12-5	<1	n/a	ug/L	02/22/05	-4.000	4.000	U
BLNK-PREP	Cyanide by Midi/Spectrophotom	57-12-5	<4	n/a	ug/L	02/22/05	-4.000	4.000	U
LCS	Cyanide by Midi/Spectrophotom	57-12-5	92.7	92.700	% Recov	02/22/05	85.000	115.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050278
Matrix: SOLID
Test: ICP-2008 MS All possible metal

SAF Number: F04-015
Sample Date: 02/04/05
Receive Date:02/04/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W050000340									
BATCH QC ASSOCIATED WITH SAMPLE									
MS	Silver	7440-22-4	410.2	102.550	% Recov	02/15/05	70.000	130.000	
MS	Cadmium	7440-43-9	441.1	110.275	% Recov	02/15/05	70.000	130.000	
MS	Chromium	7440-47-3	412.33	103.082	% Recov	02/15/05	70.000	130.000	
MS	Copper	7440-50-8	427.82	106.955	% Recov	02/15/05	70.000	130.000	
MS	Mercury	7439-97-6	22.36	111.800	% Recov	02/15/05	70.000	130.000	
MS	Lead	7439-92-1	429.1	107.275	% Recov	02/15/05	70.000	130.000	
MS	Uranium	7440-61-1	436.1	109.025	% Recov	02/15/05	70.000	130.000	
MSD	Silver	7440-22-4	410.7	102.675	% Recov	02/15/05	70.000	130.000	
MSD	Cadmium	7440-43-9	440.3	110.075	% Recov	02/15/05	70.000	130.000	
MSD	Chromium	7440-47-3	403.03	100.757	% Recov	02/15/05	70.000	130.000	
MSD	Copper	7440-50-8	413.82	103.455	% Recov	02/15/05	70.000	130.000	
MSD	Mercury	7439-97-6	22.41	112.050	% Recov	02/15/05	70.000	130.000	
MSD	Lead	7439-92-1	424	106.000	% Recov	02/15/05	70.000	130.000	
MSD	Uranium	7440-61-1	432.8	108.200	% Recov	02/15/05	70.000	130.000	
SPK-RPD	Silver	7440-22-4	102.675	0.122	RPD	02/15/05	0.000	20.000	
SPK-RPD	Cadmium	7440-43-9	110.075	0:182	RPD	02/15/05	0.000	20.000	
SPK-RPD	Chromium	7440-47-3	100.757	2.281	RPD	02/15/05	0.000	20.000	
SPK-RPD	Copper	7440-50-8	103.455	3.327	RPD	02/15/05	0.000	20.000	
SPK-RPD	Mercury	7439-97-6	112.050	0.223	RPD	02/15/05	0.000	20.000	
SPK-RPD	Lead	7439-92-1	106.000	1.196	RPD	02/15/05	0.000	20.000	
SPK-RPD	Uranium	7440-61-1	108.200	0.760	RPD	02/15/05	0.000	20.000	
BATCH QC									
BLANK	Silver	7440-22-4	<0.2	n/a	ug/L	02/15/05			U
BLANK	Cadmium	7440-43-9	<0.1	n/a	ug/L	02/15/05			U
BLANK	Chromium	7440-47-3	<0.3	n/a	ug/L	02/15/05			U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050278
Matrix: SOLID
Test: ICP-2008 MS All possible metal

SAF Number: F04-015
Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Copper	7440-50-8	<0.5	n/a	ug/L	02/15/05			U
BLANK	Mercury	7439-97-6	<0.1	n/a	ug/L	02/15/05			U
BLANK	Lead	7439-92-1	<1.2	n/a	ug/L	02/15/05			U
BLANK	Uranium	7440-61-1	<0.1	n/a	ug/L	02/15/05			U
LCS	Silver	7440-22-4	154.8	119.077	% Recov	02/15/05	110.000	170.000	
LCS	Cadmium	7440-43-9	145.9	113.984	% Recov	02/15/05	88.000	127.000	
LCS	Chromium	7440-47-3	67.99	97.827	% Recov	02/15/05	50.000	126.000	
LCS	Copper	7440-50-8	155.4	105.000	% Recov	02/15/05	61.000	134.000	
LCS	Mercury	7439-97-6	15.98	94.556	% Recov	02/15/05	75.000	114.000	
LCS	Lead	7439-92-1	157.6	110.986	% Recov	02/15/05	87.000	120.000	
LCS	Uranium	7440-61-1	424.9	106.225	% Recov	02/15/05	89.000	107.000	

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F04-015: F04-015

Group #: WSCF20050278

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
Organic													
W050000340	B19PN0 TRENT	TPHGASOLINE	Total Pet. Hydrocarbons Gas	SOIL	LA-523-443	U	< 250	ug/kg	1.00	2.5e+02	02/18/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	12674-11-2	Aroclor-1016	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	03/04/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	11104-28-2	Aroclor-1221	SOIL	LA-523-427	U	< 100	ug/kg	1.00	1.0e+02	03/04/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	11141-16-5	Aroclor-1232	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	03/04/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	53469-21-9	Aroclor-1242	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	03/04/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	12672-29-6	Aroclor-1248	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	03/04/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	11097-69-1	Aroclor-1254	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	03/04/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	11096-82-5	Aroclor-1260	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	03/04/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	37324-23-5	Aroclor-1262	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	03/04/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	11100-14-4	Aroclor-1268	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	03/04/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	100-02-7	4-Nitrophenol	SOIL	LA-523-456	U	< 180	ug/kg	2.00	1.8e+02	03/03/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	106-46-7	1,4-Dichlorobenzene	SOIL	LA-523-456	U	< 280	ug/kg	2.00	2.8e+02	03/03/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	108-95-2	Phenol	SOIL	LA-523-456	U	< 140	ug/kg	2.00	1.4e+02	03/03/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	120-82-1	1,2,4-Trichlorobenzene	SOIL	LA-523-456	U	< 190	ug/kg	2.00	1.9e+02	03/03/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	121-14-2	2,4-Dinitrotoluene	SOIL	LA-523-456	U	< 110	ug/kg	2.00	1.1e+02	03/03/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	129-00-0	Pyrene	SOIL	LA-523-456	U	< 160	ug/kg	2.00	1.6e+02	03/03/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	59-50-7	4-Chloro-3-methylphenol	SOIL	LA-523-456	U	< 97.0	ug/kg	2.00	97	03/03/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	621-64-7	N-Nitrosodi-n-dipropylamine	SOIL	LA-523-456	U	< 160	ug/kg	2.00	1.6e+02	03/03/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	83-32-9	Acenaphthene	SOIL	LA-523-456	U	< 140	ug/kg	2.00	1.4e+02	03/03/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	87-86-5	Pentachlorophenol	SOIL	LA-523-456	U	< 150	ug/kg	2.00	1.5e+02	03/03/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	95-57-8	2-Chlorophenol	SOIL	LA-523-456	U	< 160	ug/kg	2.00	1.6e+02	03/03/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	126-73-8	Tributyl phosphate	SOIL	LA-523-456	U	< 150	ug/kg	2.00	1.5e+02	03/03/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	75-35-4	1,1-Dichloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	79-01-6	Trichloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	71-43-2	Benzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	108-88-3	Toluene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorganic) U - Analyzed for but not detected above limiting criteria.
RQ = Result Qualifier

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F04-015: F04-015

Group #: WSCF20050278

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W050000340	B19PN0	TRENT	108-90-7	Chlorobenzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	75-34-3	1,1-Dichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	100-41-4	Ethylbenzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	100-42-5	Styrene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	10061-01-5	cis-1,3-Dichloropropene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	10061-02-6	trans-1,3-Dichloropropene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	107-06-2	1,2-Dichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	108-10-1	4-Methyl-2-Pentanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	124-48-1	Dibromochloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	127-18-4	Tetrachloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	1330-20-7	Xylenes (total)	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	540-59-0	1,2-Dichloroethene(Total)	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	56-23-5	Carbon tetrachloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	591-78-6	2-Hexanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	67-64-1	Acetone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	67-66-3	Chloroform	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	71-55-6	1,1,1-Trichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	74-83-9	Bromomethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	74-87-3	Chloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	75-00-3	Chloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	75-01-4	Vinyl chloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	75-09-2	Methylenechloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	75-15-0	Carbon disulfide	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	75-25-2	Bromoform	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	75-27-4	Bromodichloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	78-87-5	1,2-Dichloropropane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	78-93-3	2-Butanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05

MDL=Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorganic) U - Analyzed for but not detected above limiting criteria.
RQ=Result Qualifier

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F04-015: F04-015

Group #: WSCF20050278

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W050000340	B19PN0 TRENT	79-00-5	1,1,2-Trichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	79-34-5	1,1,2,2-Tetrachloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	71-36-3	1-Butanol	SOIL	LA-523-455	U	< 42.0	ug/kg	1.00	42	02/15/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	104-51-8	n-Butylbenzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	156-60-5	trans-1,2-Dichloroethylene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	156-59-2	cis-1,2-Dichloroethylene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	TPHDIESEL	Total Pet. Hydrocarbons Diesel	SOIL	NWTPH	U	< 3.90e+03	ug/kg	1.00	3.9e+03	03/03/05	02/04/05	02/04/05
W050000340	B19PN0 TRENT	TPHKEROSENE	Kerosene	SOIL	NWTPH	U	< 3.90e+03	ug/kg	1.00	3.9e+03	03/03/05	02/04/05	02/04/05

MDL=Minimum Detection Limit B - The analyte < the RDL but >= the IDL/MDL (inorganic) U - Analyzed for but not detected above limiting criteria.
RQ=Result Qualifier

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

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050278
Matrix: SOLID
Test: PCBs complete list

SAF Number: F04-015
Sample Date: 02/04/05
Receive Date:02/04/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W050000340									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	Decachlorobiphenyl	2051-24-3	1073.9	107.000	% Recov	03/04/05	50.000	150.000	
SURR	Tetrachloro-m-xylene	877-09-8	1035.9	103.000	% Recov	03/04/05	50.000	150.000	
Lab ID: W050000556									
BATCH QC ASSOCIATED WITH SAMPLE									
MS	Aroclor-1260	11096-82-5	1035.7	100.000	% Recov	03/04/05	75.000	125.000	
MS	Decachlorobiphenyl	2051-24-3	1108.3	107.000	% Recov	03/04/05	50.000	150.000	
MS	Tetrachloro-m-xylene	877-09-8	1045.0	101.000	% Recov	03/04/05	50.000	150.000	
MSD	Aroclor-1260	11096-82-5	884.85	87.200	% Recov	03/04/05	75.000	125.000	
MSD	Decachlorobiphenyl	2051-24-3	980.20	96.600	% Recov	03/04/05	50.000	150.000	
MSD	Tetrachloro-m-xylene	877-09-8	1051.9	104.000	% Recov	03/04/05	50.000	150.000	
SPK-RPD	Aroclor-1260	11096-82-5	87.200	13.675	RPD	03/04/05	0.000	25.000	
SPK-RPD	Decachlorobiphenyl	2051-24-3	96.600	10.216	RPD	03/04/05	0.000	20.000	
SPK-RPD	Tetrachloro-m-xylene	877-09-8	104.000	2.927	RPD	03/04/05	0.000	20.000	
BATCH QC									
BLANK	Aroclor-1016	12674-11-2	< 50	n/a	UGKG	03/04/05			U
BLANK	Aroclor-1221	11104-28-2	< 100	n/a	ug/Kg	03/04/05			U
BLANK	Aroclor-1232	11141-16-5	< 50	n/a	ug/Kg	03/04/05			U
BLANK	Aroclor-1242	53469-21-9	< 50	n/a	ug/Kg	03/04/05			U
BLANK	Aroclor-1248	12672-29-6	< 50	n/a	ug/Kg	03/04/05			U
BLANK	Aroclor-1254	11097-69-1	< 50	n/a	ug/Kg	03/04/05			U
BLANK	Aroclor-1260	11096-82-5	< 50	n/a	ug/Kg	03/04/05			U
BLANK	Aroclor-1262	37324-23-5	< 50	n/a	ug/Kg	03/04/05			U
BLANK	Aroclor-1268	11100-14-4	50	50.000	ug/Kg	03/04/05			
BLANK	Decachlorobiphenyl	2051-24-3	976.95	97.700	% Recov	03/04/05	50.000	150.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050278
Matrix: SOLID
Test: PCBs complete list

SAF Number: F04-015
Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Tetrachloro-m-xylene	877-09-8	986.73	98.700	% Recov	03/04/05	50.000	150.000	
LCS	Aroclor-1260	11096-82-5	975.87	97.600	% Recov	03/04/05	70.000	130.000	
LCS	Decachlorobiphenyl	2051-24-3	1022.9	102.000	% Recov	03/04/05	50.000	150.000	
LCS	Tetrachloro-m-xylene	877-09-8	1017.6	102.000	% Recov	03/04/05	50.000	150.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050278
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

SAF Number: F04-015
Sample Date: 02/04/05
Receive Date:02/04/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W050000340									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	2-Fluorophenol	367-12-4	2925.5	84.500	% Recov	03/03/05	42.000	105.000	
SURR	2-Fluorobiphenyl	321-60-8	2755.5	79.600	% Recov	03/03/05	56.000	122.000	
SURR	Nitrobenzene-d5	4165-60-0	2734.4	79.000	% Recov	03/03/05	64.000	111.000	
SURR	Phenol-d5	4165-62-2	2762.2	79.800	% Recov	03/03/05	54.000	120.000	
SURR	2,4,6-Tribromophenol	118-79-6	2445.9	70.600	% Recov	03/03/05	24.000	122.000	
SURR	Terphenyl-d14 (7Cl)	98904-43-9	2715.0	78.400	% Recov	03/03/05	35.000	150.000	
Lab ID: W050000556									
BATCH QC ASSOCIATED WITH SAMPLE									
MS	1,2,4-Trichlorobenzene	120-82-1	3160.3	90.700	% Recov	03/03/05	46.000	107.000	
MS	1,4-Dichlorobenzene	106-46-7	3039.8	87.300	% Recov	03/03/05	30.000	96.000	
MS	2,4-Dinitrotoluene	121-14-2	2704.8	77.700	% Recov	03/03/05	59.000	106.000	
MS	2-Fluorophenol	367-12-4	3365.0	96.600	% Recov	03/03/05	42.000	105.000	
MS	Acenaphthene	83-32-9	3161.9	90.800	% Recov	03/03/05	61.000	116.000	
MS	4-Chloro-3-methylphenol	59-50-7	4482.6	85.800	% Recov	03/03/05	61.000	106.000	
MS	2-Chlorophenol	95-57-8	4872.2	93.300	% Recov	03/03/05	66.000	106.000	
MS	N-Nitrosodi-n-dipropylamine	621-64-7	3077.8	88.400	% Recov	03/03/05	71.000	114.000	
MS	2-Fluorobiphenyl	321-60-8	3174.7	91.200	% Recov	03/03/05	56.000	122.000	
MS	Phenol	108-95-2	4675.9	89.500	% Recov	03/03/05	42.000	111.000	
MS	Nitrobenzene-d5	4165-60-0	3092.4	88.800	% Recov	03/03/05	64.000	111.000	
MS	4-Nitrophenol	100-02-7	3886.2	74.400	% Recov	03/03/05	32.000	118.000	
MS	Pentachlorophenol	87-86-5	4226.8	80.900	% Recov	03/03/05	62.000	114.000	
MS	Phenol-d5	4165-62-2	3134.3	90.000	% Recov	03/03/05	54.000	120.000	
MS	Pyrene	129-00-0	2927.1	84.000	% Recov	03/03/05	66.000	118.000	
MS	2,4,6-Tribromophenol	118-79-6	2964.3	85.100	% Recov	03/03/05	24.000	122.000	
MS	Terphenyl-d14 (7Cl)	98904-43-9	3108.2	89.200	% Recov	03/03/05	35.000	150.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050278
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

SAF Number: F04-015
Sample Date: 02/16/05
Receive Date:02/16/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MSD	1,2,4-Trichlorobenzene	120-82-1	3054.4	87.300	% Recov	03/03/05	46.000	107.000	
MSD	1,4-Dichlorobenzene	106-46-7	2877.8	82.200	% Recov	03/03/05	30.000	96.000	
MSD	2,4-Dinitrotoluene	121-14-2	2667.6	76.200	% Recov	03/03/05	59.000	106.000	
MSD	2-Fluorophenol	367-12-4	3237.9	92.500	% Recov	03/03/05	42.000	105.000	
MSD	Acenaphthene	83-32-9	2950.1	84.300	% Recov	03/03/05	61.000	116.000	
MSD	4-Chloro-3-methylphenol	59-50-7	4388.6	83.600	% Recov	03/03/05	61.000	106.000	
MSD	2-Chlorophenol	95-57-8	4609.9	87.800	% Recov	03/03/05	66.000	106.000	
MSD	N-Nitrosodi-n-dipropylamine	621-64-7	2891.4	82.600	% Recov	03/03/05	71.000	114.000	
MSD	2-Fluorobiphenyl	321-60-8	3027.8	86.500	% Recov	03/03/05	56.000	122.000	
MSD	Phenol	108-95-2	4421.6	84.200	% Recov	03/03/05	42.000	111.000	
MSD	Nitrobenzene-d5	4165-60-0	2983.2	85.300	% Recov	03/03/05	64.000	111.000	
MSD	4-Nitrophenol	100-02-7	4062.2	77.400	% Recov	03/03/05	32.000	118.000	
MSD	Pentachlorophenol	87-86-5	4236.2	80.700	% Recov	03/03/05	62.000	114.000	
MSD	Phenol-d5	4165-62-2	2999.9	85.700	% Recov	03/03/05	54.000	120.000	
MSD	Pyrene	129-00-0	2856.4	81.600	% Recov	03/03/05	66.000	118.000	
MSD	2,4,6-Tribromophenol	118-79-6	2911.2	83.200	% Recov	03/03/05	24.000	122.000	
MSD	Terphenyl-d14 (7Cl)	98904-43-9	3054.2	87.300	% Recov	03/03/05	35.000	150.000	
SPK-RPD	1,2,4-Trichlorobenzene	120-82-1	87.300	3.820	RPD	03/03/05	0.000	20.000	
SPK-RPD	1,4-Dichlorobenzene	106-46-7	82.200	6.018	RPD	03/03/05	0.000	20.000	
SPK-RPD	2,4-Dinitrotoluene	121-14-2	76.200	1.949	RPD	03/03/05	0.000	20.000	
SPK-RPD	2-Fluorophenol	367-12-4	92.500	4.336	RPD	03/03/05	0.000	20.000	
SPK-RPD	Acenaphthene	83-32-9	84.300	7.424	RPD	03/03/05	0.000	20.000	
SPK-RPD	4-Chloro-3-methylphenol	59-50-7	83.600	2.597	RPD	03/03/05	0.000	20.000	
SPK-RPD	2-Chlorophenol	95-57-8	87.800	6.074	RPD	03/03/05	0.000	20.000	
SPK-RPD	N-Nitrosodi-n-dipropylamine	621-64-7	82.600	6.784	RPD	03/03/05	0.000	20.000	
SPK-RPD	2-Fluorobiphenyl	321-60-8	86.500	5.290	RPD	03/03/05	0.000	20.000	
SPK-RPD	Phenol	108-95-2	84.200	6.102	RPD	03/03/05	0.000	20.000	
SPK-RPD	Nitrobenzene-d5	4165-60-0	85.300	4.021	RPD	03/03/05	0.000	20.000	
SPK-RPD	4-Nitrophenol	100-02-7	77.400	3.953	RPD	03/03/05	0.000	20.000	
SPK-RPD	Pentachlorophenol	87-86-5	80.700	0.248	RPD	03/03/05	0.000	20.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050278
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

SAF Number: F04-015
Sample Date: 02/16/05
Receive Date:02/16/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
SPK-RPD	Phenol-d5	4165-62-2	85.700	4.895	RPD	03/03/05	0.000	20.000	
SPK-RPD	Pyrene	129-00-0	81.600	2.899	RPD	03/03/05	0.000	20.000	
SPK-RPD	2,4,6-Tribromophenol	118-79-6	83.200	2.258	RPD	03/03/05	0.000	20.000	
SPK-RPD	Terphenyl-d14 (7Cl)	98904-43-9	87.300	2.153	RPD	03/03/05	0.000	20.000	
BATCH QC									
BLANK	1,2,4-Trichlorobenzene	120-82-1	< 180	n/a	ug/Kg	03/03/05			U
BLANK	1,4-Dichlorobenzene	106-46-7	< 270	n/a	ug/Kg	03/03/05			U
BLANK	2,4-Dinitrotoluene	121-14-2	< 110	n/a	ug/Kg	03/03/05			U
BLANK	2-Fluorophenol	367-12-4	3171.4	95.100	% Recov	03/03/05	42.000	105.000	
BLANK	Acenaphthene	83-32-9	< 140	n/a	ug/Kg	03/03/05			U
BLANK	4-Chloro-3-methylphenol	59-50-7	< 93	n/a	ug/Kg	03/03/05			U
BLANK	2-Chlorophenol	95-57-8	< 150	n/a	ug/Kg	03/03/05			U
BLANK	N-Nitrosodi-n-dipropylamine	621-64-7	< 150	n/a	ug/Kg	03/03/05			U
BLANK	2-Fluorobiphenyl	321-60-8	3011.6	90.300	% Recov	03/03/05	56.000	122.000	
BLANK	Phenol	108-95-2	< 140	n/a	ug/Kg	03/03/05			U
BLANK	Nitrobenzene-d5	4165-60-0	2945.4	88.400	% Recov	03/03/05	64.000	111.000	
BLANK	4-Nitrophenol	100-02-7	< 170	n/a	ug/Kg	03/03/05			U
BLANK	Pentachlorophenol	87-86-5	< 150	n/a	ug/Kg	03/03/05			U
BLANK	Phenol-d5	4165-62-2	2969.0	89.100	% Recov	03/03/05	54.000	120.000	
BLANK	Pyrene	129-00-0	< 160	n/a	ug/Kg	03/03/05			U
BLANK	Tributyl phosphate	126-73-8	< 140	n/a	ug/Kg	03/03/05			U
BLANK	2,4,6-Tribromophenol	118-79-6	2743.5	82.300	% Recov	03/03/05	24.000	122.000	
BLANK	Terphenyl-d14 (7Cl)	98904-43-9	3047.2	91.400	% Recov	03/03/05	35.000	150.000	
LCS	1,2,4-Trichlorobenzene	120-82-1	2870.2	86.100	% Recov	03/03/05	46.000	107.000	
LCS	1,4-Dichlorobenzene	106-46-7	2787.1	83.600	% Recov	03/03/05	42.000	111.000	
LCS	2,4-Dinitrotoluene	121-14-2	2545.4	76.400	% Recov	03/03/05	59.000	106.000	
LCS	2-Fluorophenol	367-12-4	3014.3	90.400	% Recov	03/03/05	50.000	110.000	
LCS	Acenaphthene	83-32-9	2823.8	84.700	% Recov	03/03/05	61.000	116.000	
LCS	4-Chloro-3-methylphenol	59-50-7	4094.2	81.900	% Recov	03/03/05	61.000	106.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050278
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

SAF Number: F04-015
Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
LCS	2-Chlorophenol	95-57-8	4432.8	88.700	% Recov	03/03/05	66.000	106.000	
LCS	N-Nitrosodi-n-dipropylamine	621-64-7	2762.3	82.900	% Recov	03/03/05	71.000	114.000	
LCS	2-Fluorobiphenyl	321-60-8	2861.1	85.800	% Recov	03/03/05	58.000	109.000	
LCS	Phenol	108-95-2	4265.5	85.300	% Recov	03/03/05	67.000	105.000	
LCS	Nitrobenzene-d5	4165-60-0	2787.8	83.600	% Recov	03/03/05	60.000	118.000	
LCS	4-Nitrophenol	100-02-7	3939.1	78.800	% Recov	03/03/05	32.000	118.000	
LCS	Pentachlorophenol	87-86-5	4038.2	80.800	% Recov	03/03/05	62.000	114.000	
LCS	Phenol-d5	4165-62-2	2832.5	85.000	% Recov	03/03/05	59.000	116.000	
LCS	Pyrene	129-00-0	2662.2	79.900	% Recov	03/03/05	66.000	118.000	
LCS	2,4,6-Tribromophenol	118-79-6	2827.6	84.800	% Recov	03/03/05	60.000	120.000	
LCS	Terphenyl-d14 (7Cl)	98904-43-9	2806.8	84.200	% Recov	03/03/05	60.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050278
Matrix: SOLID
Test: WTPH-D TPH Diesel Range (Wa)

SAF Number: F04-015
Sample Date: 02/04/05
Receive Date:02/04/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W050000340									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	ortho-Terphenyl Surr	84-15-1	24137	92.900	% Recov	03/03/05	70.000	130.000	
Lab ID: W050000556									
BATCH QC ASSOCIATED WITH SAMPLE									
MS	Kerosene	TPHKEROSENE	105340	80.300	% Recov	03/03/05	70.000	130.000	
MS	ortho-Terphenyl Surr	84-15-1	21744	82.900	% Recov	03/03/05	70.000	130.000	
MSD	Kerosene	TPHKEROSENE	114090	87.100	% Recov	03/03/05	70.000	130.000	
MSD	ortho-Terphenyl Surr	84-15-1	24324	92.900	% Recov	03/03/05	70.000	130.000	
SPK-RPD	ortho-Terphenyl Surr	84-15-1	92.900	11.377	RPD	03/03/05	0.000	20.000	
BATCH QC									
BLANK	Kerosene	TPHKEROSENE	< 3800	n/a	ug/Kg	03/03/05			U
BLANK	ortho-Terphenyl Surr	84-15-1	23335	93.300	% Recov	03/03/05	70.000	130.000	
BLANK	Total Pet. Hydrocarbons Diesel	TPHDIESEL	< 3800	n/a	ug/Kg	03/03/05			U
LCS	ortho-Terphenyl Surr	84-15-1	24737	98.900	% Recov	03/03/05	70.000	130.000	
LCS	Total Pet. Hydrocarbons Diesel	TPHDIESEL	127210	102.000	% Recov	03/03/05	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050278
Matrix: SOLID
Test: NWTPH-GX TPH Gasoline Range

SAF Number: F04-015
Sample Date: 02/04/05
Receive Date:02/04/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W050000340									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Total Pet. Hydrocarbons Gas	TPHGASOLINE	<250	n/a	RPD	02/18/05	0.000	20.000	U
MS	Total Pet. Hydrocarbons Gas	TPHGASOLINE	1400	107.692	% Recov	02/18/05	50.000	150.000	
MSD	Total Pet. Hydrocarbons Gas	TPHGASOLINE	1500	115.385	% Recov	02/18/05	50.000	150.000	
SPK-RPD	Total Pet. Hydrocarbons Gas	TPHGASOLINE	115.385	6.897	RPD	02/18/05	0.000	20.000	
BATCH QC									
BLANK	Total Pet. Hydrocarbons Gas	TPHGASOLINE	<250	n/a	mg/L	02/18/05	0.000	300.000	U
LCS	Total Pet. Hydrocarbons Gas	TPHGASOLINE	1200	92.308	% Recov	02/18/05	85.000	115.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050278
Matrix: SOLID
Test: VOA Ground Water Protection

SAF Number: F04-015
Sample Date: 02/03/05
Receive Date:02/03/05

Lab ID: W050000298
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MS	1,1-Dichloroethene	75-35-4	23.520	94.100	% Recov	02/15/05	63.000	117.000	
MS	Benzene	71-43-2	27.020	108.000	% Recov	02/15/05	75.000	129.000	
MS	4-Bromofluorobenzene	460-00-4	56.110	112.000	% Recov	02/15/05	84.000	116.000	
MS	Chlorobenzene	108-90-7	27.470	110.000	% Recov	02/15/05	79.000	119.000	
MS	1,2-Dichloroethane-d4	17060-07-0	57.110	114.000	% Recov	02/15/05	82.000	136.000	
MS	Toluene-d8	2037-26-5	53.530	107.000	% Recov	02/15/05	89.000	119.000	
MS	Toluene	108-88-3	26.890	108.000	% Recov	02/15/05	76.000	120.000	
MS	Trichloroethene	79-01-6	26.160	105.000	% Recov	02/15/05	73.000	123.000	
MSD	1,1-Dichloroethene	75-35-4	24.770	99.100	% Recov	02/15/05	63.000	117.000	
MSD	Benzene	71-43-2	27.710	111.000	% Recov	02/15/05	75.000	129.000	
MSD	4-Bromofluorobenzene	460-00-4	53.720	107.000	% Recov	02/15/05	84.000	116.000	
MSD	Chlorobenzene	108-90-7	27.450	110.000	% Recov	02/15/05	79.000	119.000	
MSD	1,2-Dichloroethane-d4	17060-07-0	55.610	111.000	% Recov	02/15/05	82.000	136.000	
MSD	Toluene-d8	2037-26-5	51.590	103.000	% Recov	02/15/05	89.000	119.000	
MSD	Toluene	108-88-3	25.640	103.000	% Recov	02/15/05	76.000	120.000	
MSD	Trichloroethene	79-01-6	26.530	106.000	% Recov	02/15/05	73.000	123.000	
SPK-RPD	1,1-Dichloroethene	75-35-4	99.100	5.176	RPD	02/15/05	0.000	25.000	
SPK-RPD	Benzene	71-43-2	111.000	2.740	RPD	02/15/05	0.000	25.000	
SPK-RPD	4-Bromofluorobenzene	460-00-4	107.000	4.566	RPD	02/15/05	0.000	25.000	
SPK-RPD	Chlorobenzene	108-90-7	110.000	0.000	RPD	02/15/05	0.000	25.000	
SPK-RPD	1,2-Dichloroethane-d4	17060-07-0	111.000	2.667	RPD	02/15/05	0.000	25.000	
SPK-RPD	Toluene-d8	2037-26-5	103.000	3.810	RPD	02/15/05	0.000	25.000	
SPK-RPD	Toluene	108-88-3	103.000	4.739	RPD	02/15/05	0.000	25.000	
SPK-RPD	Trichloroethene	79-01-6	106.000	0.948	RPD	02/15/05	0.000	25.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050278
Matrix: SOLID
Test: VOA Ground Water Protection

SAF Number: F04-015
Sample Date: 02/04/05
Receive Date:02/04/05

Lab ID: W050000340

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
SURR	4-Bromofluorobenzene	460-00-4	55.960	112.000	% Recov	02/15/05	71.000	125.000	
SURR	1,2-Dichloroethane-d4	17060-07-0	57.220	114.000	% Recov	02/15/05	80.000	134.000	
SURR	Toluene-d8	2037-26-5	52.710	105.000	% Recov	02/15/05	80.000	126.000	

BATCH QC

BLANK	1,1-Dichloroethane	75-34-3	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	1,1,1-Trichloroethane	71-55-6	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	1,1,2-Trichloroethane	79-00-5	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	1,1,2,2-Tetrachloroethane	79-34-5	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	1,1-Dichloroethene	75-35-4	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	1,2-Dichloroethane	107-06-2	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	1,2-Dichloroethene(Total)	540-59-0	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	1-Butanol	71-36-3	< 40	n/a	ug/Kg	02/15/05			U
BLANK	2-Hexanone	591-78-6	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	4-Methyl-2-Pentanone	108-10-1	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Acetone	67-64-1	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Bromodichloromethane	75-27-4	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Benzene	71-43-2	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	4-Bromofluorobenzene	460-00-4	55.000	110.000	% Recov	02/15/05	71.000	125.000	
BLANK	Bromoform	75-25-2	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	n-Butylbenzene	104-51-8	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Carbon disulfide	75-15-0	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Carbon tetrachloride	56-23-5	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Dibromochloromethane	124-48-1	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Chloroform	67-66-3	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Chlorobenzene	108-90-7	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	cis-1,2-Dichloroethylene	156-59-2	< 2.0	n/a	ug/Kg	02/15/05			U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050278
Matrix: SOLID
Test: VOA Ground Water Protection

SAF Number: F04-015
Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	cis-1,3-Dichloropropene	10061-01-5	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Chloroethane	75-00-3	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	1,2-Dichloroethane-d4	17060-07-0	52.140	104.000	% Recov	02/15/05	80.000	134.000	
BLANK	trans-1,2-Dichloroethylene	156-60-5	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	1,2-Dichloropropane	78-87-5	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Ethylbenzene	100-41-4	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Bromomethane	74-83-9	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Chloromethane	74-87-3	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	2-Butanone	78-93-3	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Methylenechloride	75-09-2	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Tetrachloroethene	127-18-4	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Styrene	100-42-5	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Xylenes (total)	1330-20-7	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Toluene-d8	2037-26-5	53.040	106.000	% Recov	02/15/05	80.000	126.000	
BLANK	Toluene	108-88-3	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	trans-1,3-Dichloropropene	10061-02-6	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Trichloroethene	79-01-6	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Vinyl chloride	75-01-4	< 2.0	n/a	ug/Kg	02/15/05			U
LCS	1,1-Dichloroethene	75-35-4	22.760	91.000	% Recov	02/15/05	70.000	130.000	
LCS	Benzene	71-43-2	26.130	105.000	% Recov	02/15/05	70.000	130.000	
LCS	4-Bromofluorobenzene	460-00-4	56.050	112.000	% Recov	02/15/05	71.000	125.000	
LCS	Chlorobenzene	108-90-7	26.780	107.000	% Recov	02/15/05	70.000	130.000	
LCS	1,2-Dichloroethane-d4	17060-07-0	56.640	113.000	% Recov	02/15/05	80.000	134.000	
LCS	Toluene-d8	2037-26-5	53.060	106.000	% Recov	02/15/05	80.000	126.000	
LCS	Toluene	108-88-3	26.090	104.000	% Recov	02/15/05	70.000	130.000	
LCS	Trichloroethene	79-01-6	25.180	101.000	% Recov	02/15/05	70.000	130.000	

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F04-015: F04-015

Group #: WSCF20050278

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
Radiochemistry														
W050000340	B19PN0	TRENT	14596-10-2	Americium-241	SOIL	LA-508-471	U	5.00e-03	pCi/g	1.00	0.040	02/28/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	E,T,C	Am-241 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.022	pCi/g	1.00	0.0	02/28/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	10198-40-0	Cobalt-60	SOIL	LA-508-481	U	-3.07e-03	pCi/g	1.00	8.2e-03	02/04/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 5.0e-03	pCi/g	1.00	0.0	02/04/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	10045-97-3	Cesium-137	SOIL	LA-508-481	U	-2.84e-03	pCi/g	1.00	8.3e-03	02/04/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 5.7e-03	pCi/g	1.00	0.0	02/04/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	14683-23-9	Europium-152	SOIL	LA-508-481	U	0.0110	pCi/g	1.00	0.026	02/04/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.017	pCi/g	1.00	0.0	02/04/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	15585-10-1	Europium-154	SOIL	LA-508-481	U	-8.79e-03	pCi/g	1.00	0.029	02/04/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.017	pCi/g	1.00	0.0	02/04/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	14391-16-3	Europium-155	SOIL	LA-508-481		0.0271	pCi/g	1.00	0.037	02/04/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.032	pCi/g	1.00	0.0	02/04/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	13981-16-3	Plutonium-238	SOIL	LA-508-471	U	-5.20e-03	pCi/g	1.00	0.049	02/28/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	E,T,C	Pu-238 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.026	pCi/g	1.00	0.0	02/28/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	PU-239/240	Pu-239/240 by AEA	SOIL	LA-508-471		0.0190	pCi/g	1.00	4.7e-03	02/28/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	E,T,C	Pu-239/240 AEA Total Cntg Err	SOIL	LA-508-471		+- 0.012	pCi/g	1.00	0.0	02/28/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	SR-RAD	Strontium-89/90	SOIL	LA-508-415	U	-0.130	pCi/g	1.00	0.25	02/23/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	E,T,C	Sr-89/90 Rel. Count Error	SOIL	LA-508-415		+- 0.34	pCi/g	1.00	0.0	02/23/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	U-233/234	Uranium-233/234	SOIL	LA-508-471		0.130	pCi/g	1.00	4.7e-03	02/28/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	E,T,C	U-233/234 AEA Total Cntg Error	SOIL	LA-508-471		+- 0.042	pCi/g	1.00	0.0	02/28/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	15117-96-1	Uranium-235	SOIL	LA-508-471		0.0230	pCi/g	1.00	5.8e-03	02/28/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	E,T,C	U-235 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.015	pCi/g	1.00	0.0	02/28/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	U-238	Uranium-238	SOIL	LA-508-471		0.160	pCi/g	1.00	4.7e-03	02/28/05	02/04/05	02/04/05
W050000340	B19PN0	TRENT	E,T,C	U-238 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.048	pCi/g	1.00	0.10	02/28/05	02/04/05	02/04/05

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorganic) U - Analyzed for but not detected above limiting criteria.
RQ = Result Qualifier

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

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050278
Matrix: SOLID
Test: Americium by AEA

SAF Number: F04-015
Sample Date: 02/02/05
Receive Date:02/02/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W050000288									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Americium-241	14596-10-2	2.4e+00	4.255	RPD	02/28/05	0.000	20.000	
BATCH QC									
BLANK	Americium-241	14596-10-2	1.8e-02	0.018	pCi/g	02/28/05	-10.000	1000.000	
LCS	Americium-241	14596-10-2	4.2e+01	87.318	% Recov	02/28/05	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050278
Matrix: SOLID
Test: Gamma Energy Analysis-grd H2O

SAF Number: F04-015
Sample Date: 02/04/05
Receive Date:02/04/05

Lab ID: W050000340

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
DUP	Cobalt-60	10198-40-0	U-4.7e-3	n/a	RPD	02/07/05	0.000	20.000	
DUP	Cesium-137	10045-97-3	U1.03e-3	n/a	RPD	02/07/05	0.000	20.000	
DUP	Europium-152	14683-23-9	U-1.2e-2	n/a	RPD	02/07/05	0.000	20.000	
DUP	Europium-154	15585-10-1	U-1.0e-2	n/a	RPD	02/07/05	0.000	20.000	
DUP	Europium-155	14391-16-3	U1.02e-2	n/a	RPD	02/07/05	0.000	20.000	

BATCH QC

BLANK	Cobalt-60	10198-40-0	U-2.1e-3	n/a	pCi/g	02/07/05	-10.000	1000.000	
BLANK	Cesium-137	10045-97-3	U-3.1e-3	n/a	pCi/g	02/07/05	-10.000	1000.000	
BLANK	Europium-152	14683-23-9	U-4.4e-3	n/a	pCi/g	02/07/05	-10.000	1000.000	
BLANK	Europium-154	15585-10-1	U-3.4e-3	n/a	pCi/g	02/07/05	-10.000	1000.000	
BLANK	Europium-155	14391-16-3	U7.85e-3	n/a	pCi/g	02/07/05	-10.000	1000.000	
LCS	Cobalt-60	10198-40-0	4.40e+03	105.012	% Recov	02/08/05	80.000	120.000	
LCS	Cesium-137	10045-97-3	3.90e+03	108.939	% Recov	02/08/05	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050278
Matrix: SOLID
Test: Plutonium Isotopics by AEA

SAF Number: F04-015
Sample Date: 02/02/05
Receive Date:02/02/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W050000288									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Pu-239/240 by AEA	PU-239/240	6.0e+01	4.878	RPD	02/28/05	0.000	20.000	
BATCH QC									
BLANK	Pu-239/240 by AEA	PU-239/240	1.4e-02	0.014	pCi/g	02/28/05	-10.000	1000.000	
LCS	Pu-239/240 by AEA	PU-239/240	4.7e+01	95.528	% Recov	02/28/05	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050278
Matrix: SOLID
Test: Strontium 89/90

SAF Number: F04-015
Sample Date: 02/02/05
Receive Date:02/02/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W050000288									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Strontium-89/90	SR-RAD	5.2e+01	5.941	RPD	02/23/05	0.000	20.000	
BATCH QC									
BLANK	Strontium-89/90	10098-97-2	1.3e-01	0.130	pCi/g	02/23/05	-10.000	300.000	
LCS	Strontium-89/90	10098-97-2	71.5	100.563	% Recov	02/23/05	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050278
Matrix: SOLID
Test: Uranium Isotopics by AEA

SAF Number: F04-015
Sample Date: 02/02/05
Receive Date:02/02/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W050000288									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Uranium-238	U-238	8.1e-01	1.242	RPD	02/28/05	0.000	20.000	
BATCH QC									
BLANK	Uranium-238	24678-82-8	2.6e-02	0.026	pCi/g	02/28/05	-10.000	1000.000	
LCS	Uranium-238	24678-82-8	9.3e+01	122.659	% Recov	02/28/05	75.000	125.000	

WSCF
ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F04-015

Group #: WSCF20050278

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		ICP-MS: U LCS is within limits; no flag. ORGANICS: Sample concentrations are corrected for moisture and reported dry weight basis. gar

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

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F04-015 :F04-015

Group #: WSCF20050278

Sample #	Client ID	Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				13	%
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				14	%
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				14	%
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				16	%
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	RA-226 Count Error				16	%
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				16	%
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				17	%
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	RA-228 Count Error				17	%
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error				20	%
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				27	%
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	U-235 Count Error				28	%
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error				45	%
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	CS-134				0.020	pCi/g
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	U-235				0.058	pCi/g
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	SN-126				0.12	pCi/g
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	TL-208				0.17	pCi/g
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.34	pCi/g
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.51	pCi/g
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	RA-228				0.51	pCi/g
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	BI-214				0.51	pCi/g
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	RA-226				0.51	pCi/g
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	PB-212				0.52	pCi/g
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	PB-214				0.55	pCi/g
W050000340	B19PN0 TRENT	Gamma Energy Analysis-grd H2O	K-40				14	pCi/g

RQ=Result Qualifier

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WSCF
METHOD REFERENCES REPORT

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-212-411	Determination of Soil pH Measurement	
	EPA SW-846 9045C	SOIL AND WASTE pH
LA-505-412	LA-505-412: DETERMINATION OF TRACE ELEMENTS IN WATERS AND WASTES BY INDUCTIVELY	
	EPA-600/R-94-111 200.8	DETERMINATION OF TRACE ELEMENTS IN WATERS AND WASTES BY INDUCTIVELY COUPLED PLAS
LA-508-415	LA-508-415: OPERATION OF THE PROTEAN 2-INCH ALPHA/BETA COUNTING SYSTEM FOR GROSS	
	None	No reference to any industry method.
LA-508-471	LA-508-471: ALPHA ENERGY ANALYZER DATA ACQUISITION AND SYSTEM CHECKOUT USING ALP	
	None	No reference to any industry method.
LA-508-481	LA-508-481: GAMMA ENERGY ANALYSIS USING PROCOUNT SOFTWARE	
	None	No reference to any industry method.
LA-519-412	LA-519-412: TOTAL RESIDUE/% SOLIDS DRIED AT 103 - 105 C	
	EPA-600/4-79-020 160.3	RESIDUE, TOTAL
	Standard Methods 2540B	Total Solids Dried at 103-105 C
LA-523-427	LA-523-427: POLYCHLORINATED BIPHENYLS (PCBs) BY GAS CHROMATOGRAPHY	
	EPA SW-846 3510C	SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION
	EPA SW-846 3545	PRESSURIZED FLUID EXTRACTION (PFE)
	EPA SW-846 3665A	SULFURIC ACID/PERMANGANATE CLEANUP
	EPA SW-846 8000B	DETERMINATIVE CHROMATOGRAPHIC SEPARATIONS
	EPA SW-846 8082	POLYCHLORINATED BIPHENYLS (PCBs) BY GAS CHROMATOGRAPHY

Note: A complete list of WSCF analytical procedures and referenced regulatory or industry methods is available online at \\ap006\aspdocs\WSCF\Sample Mgmt\ProcedureMethodCrossReference.pdf. This document includes on-line links to full-text versions of the procedures and methods, where available.

WSCF
METHOD REFERENCES REPORT

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LA-523-443	LA-523-443: GAS CHROMATOGRAPH ANALYSIS OF GASOLINE RANGE TOTAL PETROLEUM HYDROCA	
	WDOE TPH NWTPH-G	Volatile Petroleum Products Method for Soil and Water
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)
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)
LA-533-410	LA-533-410: ANION ANALYSIS BY ION CHROMATOGRAPHY	
	EPA-600/R-94-111 300	DETERMINATION OF INORGANIC ANIONS BY ION CHROMATOGRAPHY
LA-695-402	LA-695-402: DETERMINATION OF CYANIDE BY MIDIDISTILLATION AND SPECTROPHOTOMETRIC	
	EPA-600/4-79-020 335.2	Cyanide, Total
NWTPH	NWTPH-Diesel and/or Gasoline	
	WDOE NWTPH-Dx/Gx	Total Petroleum Hydrocarbons - Diesel/Gasoline

Note: A complete list of WSCF analytical procedures and referenced regulatory or industry methods is available online at \\ap006\aspdocs\WSCF\Sample Mgmt\ProcedureMethodCrossReference.pdf. This document includes on-line links to full-text versions of the procedures and methods, where available.

w13qlog v1 07-mar-2005 13:59:06

W13q Worklist/Batch/QC Report for Group# WSCF20050278

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
				SAMPLE	W050000340	Percent Solids
				SAMPLE	W050000340	pH Soil and Waste Measurement
24941	1	25295	28690	BLANK		Gamma Energy Analysis-grd H2O
24941	2	25295	28690	LCS		Gamma Energy Analysis-grd H2O
24941	3	25295	28690	DUP	W050000340	Gamma Energy Analysis-grd H2O
24941	4	25295	28690	SAMPLE	W050000340	Gamma Energy Analysis-grd H2O
25079	7	25436	28786	BLANK		ICP-2008 MS All possible metal
25079	8	25436	28786	LCS		ICP-2008 MS All possible metal
25079	10	25436	28786	MS	W050000340	ICP-2008 MS All possible metal
25079	11	25436	28786	MSD	W050000340	ICP-2008 MS All possible metal
25079	9	25436	28786	SAMPLE	W050000340	ICP-2008 MS All possible metal
25079	0	25436	28786	SPK-RPD	W050000340	ICP-2008 MS All possible metal
25134	2	25493	28859	BLANK		Anions by Ion Chromatography
25134	15	25493	28859	BLANK		Anions by Ion Chromatography
25134	3	25493	28859	LCS		Anions by Ion Chromatography
25134	13	25493	28859	SAMPLE	W050000340	Anions by Ion Chromatography
25134	5	25493	28859	DUP	W050000410	Anions by Ion Chromatography
25134	6	25493	28859	MS	W050000410	Anions by Ion Chromatography
25134	7	25493	28859	MSD	W050000410	Anions by Ion Chromatography
			28864	BLANK		Cyanide by Midi/Spectrophotom
			28864	BLNK-PREP		Cyanide by Midi/Spectrophotom
			28864	LCS		Cyanide by Midi/Spectrophotom
			28864	MS	W050000296	Cyanide by Midi/Spectrophotom
			28864	MSD	W050000296	Cyanide by Midi/Spectrophotom
			28864	SPK-RPD	W050000296	Cyanide by Midi/Spectrophotom
			28864	SAMPLE	W050000340	Cyanide by Midi/Spectrophotom
25049	1	25403	28884	BLANK		Strontium 89/90
25049	2	25403	28884	LCS		Strontium 89/90
25049	3	25403	28884	DUP	W050000288	Strontium 89/90
25049	10	25403	28884	SAMPLE	W050000340	Strontium 89/90
25179	1	25539	28954	BLANK		Americium by AEA
25179	2	25539	28954	LCS		Americium by AEA
25179	3	25539	28954	DUP	W050000288	Americium by AEA
25179	10	25539	28954	SAMPLE	W050000340	Americium by AEA
25180	1	25540	28955	BLANK		Plutonium Isotopics by AEA
25180	2	25540	28955	LCS		Plutonium Isotopics by AEA
25180	3	25540	28955	DUP	W050000288	Plutonium Isotopics by AEA
25180	10	25540	28955	SAMPLE	W050000340	Plutonium Isotopics by AEA
25178	1	25538	28956	BLANK		Uranium Isotopics by AEA
25178	2	25538	28956	LCS		Uranium Isotopics by AEA
25178	3	25538	28956	DUP	W050000288	Uranium Isotopics by AEA
25178	10	25538	28956	SAMPLE	W050000340	Uranium Isotopics by AEA
			29004	BLANK		WTPH-D TPH Diesel Range (Wa)
			29004	LCS		WTPH-D TPH Diesel Range (Wa)
			29004	SAMPLE	W050000340	WTPH-D TPH Diesel Range (Wa)

			29004	SURR	W050000340	WTPH-D TPH Diesel Range (Wa)
			29004	MS	W050000556	WTPH-D TPH Diesel Range (Wa)
			29004	MSD	W050000556	WTPH-D TPH Diesel Range (Wa)
			29004	SPK-RPD	W050000556	WTPH-D TPH Diesel Range (Wa)
			29006	BLANK		VOA Ground Water Protection
			29006	LCS		VOA Ground Water Protection
			29006	MS	W050000298	VOA Ground Water Protection
			29006	MSD	W050000298	VOA Ground Water Protection
			29006	SPK-RPD	W050000298	VOA Ground Water Protection
			29006	SAMPLE	W050000340	VOA Ground Water Protection
			29006	SURR	W050000340	VOA Ground Water Protection
			29019	BLANK		SW-846 8270B Semi-Vols
			29019	LCS		SW-846 8270B Semi-Vols
			29019	SAMPLE	W050000340	SW-846 8270B Semi-Vols
			29019	SURR	W050000340	SW-846 8270B Semi-Vols
			29019	MS	W050000556	SW-846 8270B Semi-Vols
			29019	MSD	W050000556	SW-846 8270B Semi-Vols
			29019	SPK-RPD	W050000556	SW-846 8270B Semi-Vols
			29023	BLANK		PCBs complete list
			29023	LCS		PCBs complete list
			29023	SAMPLE	W050000340	PCBs complete list
			29023	SURR	W050000340	PCBs complete list
			29023	MS	W050000556	PCBs complete list
			29023	MSD	W050000556	PCBs complete list
			29023	SPK-RPD	W050000556	PCBs complete list
25286	1	25656	29026	BLANK		NWTPH-GX TPH Gasoline Range
25286	2	25656	29026	LCS		NWTPH-GX TPH Gasoline Range
25286	4	25656	29026	DUP	W050000340	NWTPH-GX TPH Gasoline Range
25286	5	25656	29026	MS	W050000340	NWTPH-GX TPH Gasoline Range
25286	6	25656	29026	MSD	W050000340	NWTPH-GX TPH Gasoline Range
25286	3	25656	29026	SAMPLE	W050000340	NWTPH-GX TPH Gasoline Range
25286	6	25656	29026	SPK-RPD	W050000340	NWTPH-GX TPH Gasoline Range

M8141-SLF-05-116

ATTACHMENT 3

SAMPLE RECEIPT INFORMATION

Consisting of 3 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

3/7/05

File KB

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 119144/ES10
Group#: 20050278
Project#: F04-015
Proj Mgr: Steve Trent A0-21
Phone: 373-5869

The following samples were received from you on 02/04/05. 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
W050000340	B19PN0	TRENT @2008 @AEA-30 @AEA-31 @AEA-32 @GEA-GPP @IC-30 @PCBGPP @SR89_90 @SVOCGPP @TPHD-WA @TPHG @VOA-GPP CN-02 PERSOLID PH-30	Solid, or handle as if solid	02/04/05

Test Acronym Description

Test Acronym	Description
@2008	ICP-2008 MS All possible metal
@AEA-30	Plutonium Isotopics by AEA
@AEA-31	Americium by AEA
@AEA-32	Uranium Isotopics by AEA
@GEA-GPP	Gamma Energy Analysis-grd H2O
@IC-30	Anions by Ion Chromatography
@PCBGPP	PCBs complete list
@SR89_90	Strontium 89/90
@SVOCGPP	SW-846 8270B Semi-Vols
@TPHD-WA	WTPH-D TPH Diesel Range (Wa)
@TPHG-WA	NWTPH-GX TPH Gasoline Range
@VOA-GPP	VOA Ground Water Protection
CN-02	Cyanide by Midi/Spectrophotom
PERSOLID	Percent Solids
PH-30	pH Soil and Waste Measurement

FLUOR Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F04-015-084	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
Pope/Pfister/Wiberg/Tyra	CS Cearlock	372-9638	TRENT, SJ	AIR QUALITY ☐	45 Days / 45 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
216-T-33; 47.5ft-50ft	200-MW-1 Characterization Sampling and Analysis - Soil	F04-015

ICE CHEST NO.	FIELD LOGBOOK NO.	CDA	METHOD OF SHIPMENT
	HNF-N-386 1	119144E510	Governement Vehicle

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
Waste Sampling & Characterization	N/A	N/A

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

POSSIBLE SAMPLE HAZARDS/ REMARKS: N/A

SPECIAL HANDLING AND/OR STORAGE: Radioactive Tie To: B19PP1

20050278

PRESERVATION	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None
TYPE OF CONTAINER	aG	aG	aG	aGa*	aG	Square Bottle - Poly
NO. OF CONTAINER(S)	1	1	1	3	1	1
VOLUME	250mL	120mL	250mL	40mL	120mL	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	PCBs - 8082;	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	SEE ITEM (4) IN SPECIAL INSTRUCTIONS	SEE ITEM (5) IN SPECIAL INSTRUCTIONS
		\				GEA

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME						
B19PN0	SOIL	2-4-05	0750	X	X	X	X	X	X
W9050000340									

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
JS Pope 2-4-05	0850	[illegible]	2/4/05 0850
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** The laboratory is to report both kerosene and diesel range compounds from the WTPH-D analysis.

(1)IC Anions - 300.0 {Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphate, Sulfate} Total Cyanide - 9010; pH (Soil) - 9045;

(2)ICP/MS - 200.8 (TAL) {Cadmium, Chromium, Copper, Silver} ICP/MS - 200.8 (Add-on) {Lead, Uranium} 200.8_HG - ICPMS {Mercury}

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

(4)Semi-VOA – 8270A (Add-On) {Tributyl phosphate} TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range}

(5)Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Isotopic Plutonium; Isotopic Uranium; Americium-241; Strontium-89,90 – Total Sr; EXPEDITE GEA - 24 hr. Turnaround

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