Revision 2
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Memorandum

M8141-SLF-05-268

To: S. J. Trent A0-21 Date: June 27, 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: REVISED FINAL RESULTS FOR 200-MW-1 CHARACTERIZATION SAMPLING AND ANALYSIS - SOIL– SAMPLE DELIVERY GROUP WSCF20050854 – SAF NUMBER F04-015

Reference:
(1) Memo, SL Fitzgerald to SJ Trent, same subject (M8141-SLF-05-230), dated June 27, 2005
(2) Groundwater Protection Program-Letter of Instruction, FH-EIS-2003-MEM-001, October 31, 2002
(3) HNF-SD-CD-QAPP-017, Rev. 7, Waste Sampling & Characterization Facility Quality Assurance Plan

This letter contains a revised narrative (Attachment 1) and corrected analytical results (Attachment 2) for sample delivery group WSCF20050854. These results replace those reported earlier (Reference 1). Missing blank and Laboratory Control Sample (LCS) QC data for PCBs have been included in the attached Analytical Results Report.

The subject report is included in its entirety and we apologize for any inconvenience this may have caused you. If you have any questions, please contact Pauline Mix at telephone 372-1488.

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Attachments 3

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ATTACHMENT 1

REVISED NARRATIVE

Consisting of 5 pages
Including cover page

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Sample Delivery Group	**WSCF20050854, Rev. 1**
Sample Matrix	**Soil**
Sample Visual	**N/A**
SAF Number	**F04-015**
Data Deliverable	**Summary Report**

Introduction

Three (3) 200-MW-1 Characterization Sampling and Analysis – Soil/216-E-4, (9' – 10'), samples (B1C7D2, B1C7D3, and B1C7D4) were received at the WSCF Laboratory on April 19, 2005. 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.

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 are included as Attachment 3.

Analytical Methodology for Requested Analyses

Inorganic

- Anions by EPA Method 300.0. 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 150.1. 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.

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- 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.

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 10 through 11 for QC details. Analytical Notes:

- Preparation Date: 25-apr-2005.

- Nitrate – Sample B1C7D3 result was B-flagged; the analyte was less than the reportable detection limit, but greater than or equal to the method detection limit.

- Sulfate – Sample (B1C7D3 and B1C7D4) results were B-flagged; the analyte was less than the reportable detection limit, but greater than or equal to the method detection limit.

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 12 for QC details.

All 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 13 through 14 for QC details. Analytical Notes:

- Preparation Date: 26-apr-2005.

- Copper – Matrix Spike Duplicate was below laboratory established limits. Since all of the other QC results were within laboratory limits, the sample results were not flagged.

- Silver – The Laboratory Control Sample recovery was below established laboratory limits, but was within manufacturer's limits.

- Sample B1C7D4 was received with custody seal broken.

All other 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. See page 15 for QC details.

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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 (LCS), Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See pages 22 and 23 for QC details. Analytical Notes:

- Preparation Date: 20-apr-2005.
- PCB – Non-detect sample results (B1C7D2 and B1C7D4) exceeded required RDLs.

  NOTE: Missing Blank and LCS QC data have been included in the Analytical Results Report (Attachment 2).

All other QC controls are within the established limits.

Semi-VOA – The hold time for this analysis was not met. Both samples had to be re-extracted on May 2, 2005 after holding time had expired due to problems in the sample preparation. Both sets of extractions (April 21 and May 2) had no target compounds of interest found in the either sample (B1C7D2 or B1C7D4). 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 24 through 27 for QC details. Analytical Notes:

- Preparation Date: 02-may-2005.
- Pentachlorophenol-d5 – The Laboratory Control Sample recovery was slightly below established laboratory limits.

All other 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 32 for QC details. Analytical Note:

- Preparation Date: 21-apr-2005.

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 33 for QC details. Analytical Note:

- Preparation Date: 27-apr-2005.

All QC controls are within the established limits.

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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 28 through 31 for QC details. 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.

Pauline D. Mix

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

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ATTACHMENT 2

REVISED ANALYTICAL RESULTS

Consisting of 33 pages
Including cover page

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WSCF
ANALYTICAL RESULTS REPORT

for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical: S. Fitzgerald

Client Services: P.D. Mix 6/27/2005

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#: WSCF20050854
Report Date: 24-jun-2005
Report WGPP/ver. 1.1
Groundwater Remediation Program

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20050854

Sample #	Client ID			CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
Inorganic															
W050001192	B1C7D2	GRP	TRENT	57-12-5	Cyanide	SOIL	LA-695-402	U	< 0.200	mg/kg	1.00	0.20	04/25/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	TS	Total solids	SOIL	LA-519-412		95.5	%	1.00	0.0	04/25/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	PH	pH Measurement	SOIL	LA-212-411		7.81	pH	1.00	0.010	04/20/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	NO2-N	Nitrogen in Nitrite	SOIL	LA-533-410	U	< 0.950	mg/kg	50.00	0.95	04/25/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	NO3-N	Nitrogen in Nitrate	SOIL	LA-533-410	B	1.64	mg/kg	50.00	0.65	04/25/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	PO4-P	Phosphate (P) by IC	SOIL	LA-533-410	U	< 2.70	mg/kg	50.00	2.7	04/25/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	14808-79-8	Sulfate	SOIL	LA-533-410	B	17.2	mg/kg	50.00	5.0	04/25/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	7440-22-4	Silver	SOIL	LA-505-412		1.36	mg/kg	0.99	0.099	04/27/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	7440-43-9	Cadmium	SOIL	LA-505-412		0.688	mg/kg	0.99	0.099	04/27/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	7440-47-3	Chromium	SOIL	LA-505-412		7.26	mg/kg	0.99	4.0	04/27/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	7440-50-8	Copper	SOIL	LA-505-412		621	mg/kg	9.87	4.9	04/27/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	7439-92-1	Lead	SOIL	LA-505-412		6.95	mg/kg	0.99	0.20	04/27/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	7440-61-1	Uranium	SOIL	LA-505-412		0.628	mg/kg	0.99	0.099	04/27/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	TS	Total solids	SOIL	LA-519-412		95.4	%	1.00	0.0	04/28/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	57-12-5	Cyanide	SOIL	LA-695-402	U	< 0.200	mg/kg	1.00	0.20	04/25/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	TS	Total solids	SOIL	LA-519-412		96.9	%	1.00	0.0	04/25/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	PH	pH Measurement	SOIL	LA-212-411		8.69	pH	1.00	0.010	04/20/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	PO4-P	Phosphate (P) by IC	SOIL	LA-533-410	U	< 2.70	mg/kg	50.00	2.7	04/25/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	14808-79-8	Sulfate	SOIL	LA-533-410	B	14.2	mg/kg	50.00	5.0	04/25/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	7440-22-4	Silver	SOIL	LA-505-412		0.418	mg/kg	1.00	0.10	04/27/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	7440-43-9	Cadmium	SOIL	LA-505-412		0.303	mg/kg	1.00	0.10	04/27/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	7440-47-3	Chromium	SOIL	LA-505-412		4.71	mg/kg	1.00	4.0	04/27/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	7440-50-8	Copper	SOIL	LA-505-412		23.5	mg/kg	1.00	2.0	04/27/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	7439-92-1	Lead	SOIL	LA-505-412		3.56	mg/kg	1.00	0.20	04/27/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	7440-61-1	Uranium	SOIL	LA-505-412		0.530	mg/kg	1.00	0.10	04/27/05	04/13/05	04/19/05

MDL=Minimum Detection Limit
RQ=Result Qualifier

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

U - Analyzed for but not detected above limiting criteria.

DF=Dilution Factor

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

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WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050854
Matrix: SOLID
Test: Anions by Ion Chromatography

SAF Number: F04-015
Sample Date: 04/13/05
Receive Date:04/19/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W050001192									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Nitrogen in Nitrite	NO2-N	<9.50e-1	n/a	RPD	04/25/05	0.000	20.000	U
DUP	Nitrogen in Nitrate	NO3-N	1.72e+00	4.762	RPD	04/25/05	0.000	20.000	
DUP	Phosphate (P) by IC	PO4-P	<2.70e0	n/a	RPD	04/25/05	0.000	20.000	U
DUP	Sulfate	14808-79-8	1.52e+01	12.346	RPD	04/25/05	0.000	20.000	
MS	Nitrogen in Nitrite	NO2-N	4.77e-01	95.400	% Recov	04/25/05	75.000	125.000	
MS	Nitrogen in Nitrate	NO3-N	4.39e-01	97.339	% Recov	04/25/05	75.000	125.000	
MS	Phosphate (P) by IC	PO4-P	8.06e-01	83.179	% Recov	04/25/05	75.000	125.000	
MS	Sulfate	14808-79-8	1.87e+00	93.500	% Recov	04/25/05	75.000	125.000	
MSD	Nitrogen in Nitrite	NO2-N	4.93e-01	98.600	% Recov	04/25/05	75.000	125.000	
MSD	Nitrogen in Nitrate	NO3-N	4.43e-01	98.226	% Recov	04/25/05	75.000	125.000	
MSD	Phosphate (P) by IC	PO4-P	7.56e-01	78.019	% Recov	04/25/05	75.000	125.000	
MSD	Sulfate	14808-79-8	1.97e+00	98.500	% Recov	04/25/05	75.000	125.000	
BATCH QC									
BLANK	Nitrogen in Nitrite	NO2-N	<1.90e-2	n/a	mg/L	04/25/05	0.000	300.000	U
BLANK	Nitrogen in Nitrite	NO2-N	<1.90e-2	n/a	mg/L	04/25/05	0.000	300.000	U
BLANK	Nitrogen in Nitrate	NO3-N	<1.30e-2	n/a	mg/L	04/25/05	0.000	300.000	U
BLANK	Nitrogen in Nitrate	NO3-N	<1.30e-2	n/a	mg/L	04/25/05	0.000	300.000	U
BLANK	Phosphate (P) by IC	PO4-P	<5.40e-2	n/a	mg/L	04/25/05	0.000	300.000	U
BLANK	Phosphate (P) by IC	PO4-P	<5.40e-2	n/a	mg/L	04/25/05	0.000	300.000	U
BLANK	Sulfate	14808-79-8	<1.00e-1	n/a	mg/L	04/25/05	0.000	300.000	U
BLANK	Sulfate	14808-79-8	<1.00e-1	n/a	mg/L	04/25/05	0.000	300.000	U
LCS	Nitrogen in Nitrite	NO2-N	9.70e+01	97.000	% Recov	04/25/05	80.000	120.000	
LCS	Nitrogen in Nitrate	NO3-N	8.54e+01	94.053	% Recov	04/25/05	80.000	120.000	
LCS	Phosphate (P) by IC	PO4-P	1.76e+02	90.815	% Recov	04/25/05	80.000	120.000	
LCS	Sulfate	14808-79-8	3.81e+02	95.489	% Recov	04/25/05	80.000	120.000	

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WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050854
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

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WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050854
Matrix: SOLID
Test: Cyanide by Midi/Spectrophotom

SAF Number: F04-015
Sample Date: 04/13/05
Receive Date:04/19/05

Lab ID: W050001192

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	93.4	93.400	% Recov	04/25/05	75.000	125.000	
MSD	Cyanide by Midi/Spectrophotom	57-12-5	90.8	90.800	% Recov	04/25/05	75.000	125.000	
SPK-RPD	Cyanide by Midi/Spectrophotom	57-12-5	90.800	2.823	RPD	04/25/05	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	1.000	ug/L	04/25/05	-4.000	4.000	
BLNK-PREP	Cyanide by Midi/Spectrophotom	57-12-5	1	1.000	ug/L	04/25/05	-4.000	4.000	
LCS	Cyanide by Midi/Spectrophotom	57-12-5	97.4	97.400	% Recov	04/25/05	85.000	115.000	

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WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050854
Matrix: SOLID
Test: ICP-2008 MS All possible metal

SAF Number: F04-015
Sample Date: 04/13/05
Receive Date:04/19/05

Lab ID: W050001192

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MS	Silver	7440-22-4	370.535	92.634	% Recov	04/27/05	70.000	130.000	
MS	Cadmium	7440-43-9	380.9117	95.228	% Recov	04/27/05	70.000	130.000	
MS	Chromium	7440-47-3	358.239	89.560	% Recov	04/27/05	70.000	130.000	
MS	Copper	7440-50-8	33.8	84.500	% Recov	04/27/05	70.000	130.000	
MS	Lead	7439-92-1	381.253	95.313	% Recov	04/27/05	70.000	130.000	
MS	Uranium	7440-61-1	385.172	96.293	% Recov	04/27/05	70.000	130.000	
MSD	Silver	7440-22-4	368.635	92.159	% Recov	04/27/05	70.000	130.000	
MSD	Cadmium	7440-43-9	373.8117	93.453	% Recov	04/27/05	70.000	130.000	
MSD	Chromium	7440-47-3	357.739	89.435	% Recov	04/27/05	70.000	130.000	
MSD	Copper	7440-50-8	4	10.000	% Recov	04/27/05	70.000	130.000	*
MSD	Lead	7439-92-1	371.853	92.963	% Recov	04/27/05	70.000	130.000	
MSD	Uranium	7440-61-1	373.672	93.418	% Recov	04/27/05	70.000	130.000	
SPK-RPD	Silver	7440-22-4	92.159	0.514	RPD	04/27/05	0.000	20.000	
SPK-RPD	Cadmium	7440-43-9	93.453	1.881	RPD	04/27/05	0.000	20.000	
SPK-RPD	Chromium	7440-47-3	89.435	0.140	RPD	04/27/05	0.000	20.000	
SPK-RPD	Copper	7440-50-8	91.870	0.163	RPD	04/27/05	0.000	20.000	
SPK-RPD	Lead	7439-92-1	92.963	2.496	RPD	04/27/05	0.000	20.000	
SPK-RPD	Uranium	7440-61-1	93.418	3.031	RPD	04/27/05	0.000	20.000	

BATCH QC

BLANK	Silver	7440-22-4	<0.1	n/a	ug/L	04/27/05			U
BLANK	Cadmium	7440-43-9	<0.1	n/a	ug/L	04/27/05			U
BLANK	Chromium	7440-47-3	<4.0	n/a	ug/L	04/27/05			U
BLANK	Copper	7440-50-8	<2.0	n/a	ug/L	04/27/05			U
BLANK	Lead	7439-92-1	<0.2	n/a	ug/L	04/27/05			U
BLANK	Uranium	7440-61-1	<0.1	n/a	ug/L	04/27/05			U

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WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050854
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
LCS	Silver	7440-22-4	139.4	107.231	% Recov	04/27/05	110.000	170.000	*
LCS	Cadmium	7440-43-9	129.7	101.328	% Recov	04/27/05	88.000	127.000	
LCS	Chromium	7440-47-3	60.81	87.496	% Recov	04/27/05	50.000	126.000	
LCS	Copper	7440-50-8	145.8	98.514	% Recov	04/27/05	61.000	134.000	
LCS	Lead	7439-92-1	136.5	96.127	% Recov	04/27/05	87.000	120.000	
LCS	Uranium	7440-61-1	397.2	99.300	% Recov	04/27/05	89.000	107.000	

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WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050854
Matrix: SOLID
Test: pH Soil and Waste Measurement

SAF Number: F04-015
Sample Date: 04/13/05
Receive Date:04/19/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W050001192									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	pH Soil and Waste Measurement	PH	7.782	0.334	RPD	04/20/05	0.000	3.000	

Report w13gq/rev.5.5 p 1
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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20050854

Sample #	Client ID			CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
Organic															
W050001192	B1C7D2	GRP	TRENT	TPHGASOLINE	Total Pet. Hydrocarbons Gas	SOIL	LA-523-443	U	< 250	ug/kg	1.00	2.5e+02	04/27/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	12674-11-2	Aroclor-1016	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	04/21/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	11104-28-2	Aroclor-1221	SOIL	LA-523-427	U	< 100	ug/kg	1.00	1.0e+02	04/21/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	11141-16-5	Aroclor-1232	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	04/21/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	53469-21-9	Aroclor-1242	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	04/21/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	12672-29-6	Aroclor-1248	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	04/21/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	11097-69-1	Aroclor-1254	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	04/21/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	11096-82-5	Aroclor-1260	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	04/21/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	37324-23-5	Aroclor-1262	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	04/21/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	11100-14-4	Aroclor-1268	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	04/21/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	100-02-7	4-Nitrophenol	SOIL	LA-523-456	U	< 160	ug/kg	1.00	1.6e+02	05/02/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	106-46-7	1,4-Dichlorobenzene	SOIL	LA-523-456	U	< 150	ug/kg	1.00	1.5e+02	05/02/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	108-95-2	Phenol	SOIL	LA-523-456	U	< 88.0	ug/kg	1.00	88	05/02/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	120-82-1	1,2,4-Trichlorobenzene	SOIL	LA-523-456	U	< 85.0	ug/kg	1.00	85	05/02/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	121-14-2	2,4-Dinitrotoluene	SOIL	LA-523-456	U	< 64.0	ug/kg	1.00	64	05/02/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	129-00-0	Pyrene	SOIL	LA-523-456	U	< 51.0	ug/kg	1.00	51	05/02/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	59-50-7	4-Chloro-3-methylphenol	SOIL	LA-523-456	U	< 77.0	ug/kg	1.00	77	05/02/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	621-64-7	N-Nitrosodi-n-dipropylamine	SOIL	LA-523-456	U	< 74.0	ug/kg	1.00	74	05/02/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	83-32-9	Acenaphthene	SOIL	LA-523-456	U	< 56.0	ug/kg	1.00	56	05/02/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	87-86-5	Pentachlorophenol	SOIL	LA-523-456	U	< 75.0	ug/kg	1.00	75	05/02/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	95-57-8	2-Chlorophenol	SOIL	LA-523-456	U	< 130	ug/kg	1.00	1.3e+02	05/02/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	126-73-8	Tributyl phosphate	SOIL	LA-523-456	U	< 33.0	ug/kg	1.00	33	05/02/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	75-35-4	1,1-Dichloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	79-01-6	Trichloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	71-43-2	Benzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	108-88-3	Toluene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05

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

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20050854

Sample #	Client ID			CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W050001192	B1C7D2	GRP	TRENT	108-90-7	Chlorobenzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	75-34-3	1,1-Dichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	100-41-4	Ethylbenzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	100-42-5	Styrene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	10061-01-5	cis-1,3-Dichloropropene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	10061-02-6	trans-1,3-Dichloropropene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	107-06-2	1,2-Dichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	108-10-1	4-Methyl-2-Pentanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	124-48-1	Dibromochloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	127-18-4	Tetrachloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	1330-20-7	Xylenes (total)	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	540-59-0	1,2-Dichloroethene(Total)	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	56-23-5	Carbon tetrachloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	591-78-6	2-Hexanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	67-64-1	Acetone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	67-66-3	Chloroform	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	71-55-6	1,1,1-Trichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	74-83-9	Bromomethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	74-87-3	Chloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	75-00-3	Chloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	75-01-4	Vinyl chloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	75-09-2	Methylenechloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	75-15-0	Carbon disulfide	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	75-25-2	Bromoform	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	75-27-4	Bromodichloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	78-87-5	1,2-Dichloropropane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	78-93-3	2-Butanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05

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Report WGPP/ver. 1.1
Groundwater Remediation Program

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20050854

Sample #	Client ID			CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W050001192	B1C7D2	GRP	TRENT	79-00-5	1,1,2-Trichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	79-34-5	1,1,2,2-Tetrachloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	71-36-3	1-Butanol	SOIL	LA-523-455	U	< 42.0	ug/kg	1.00	42	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	156-60-5	trans-1,2-Dichloroethylene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	156-59-2	cis-1,2-Dichloroethylene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	TPHDIESEL	Total Pet. Hydrocarbons Diesel	SOIL	NWTPH	U	< 3.90e+03	ug/kg	1.00	3.9e+03	04/27/05	04/13/05	04/19/05
W050001192	B1C7D2	GRP	TRENT	TPHKEROSENE	Kerosene	SOIL	NWTPH	U	< 3.90e+03	ug/kg	1.00	3.9e+03	04/27/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	75-35-4	1,1-Dichloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	79-01-6	Trichloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	71-43-2	Benzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	108-88-3	Toluene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	108-90-7	Chlorobenzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	75-34-3	1,1-Dichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	100-41-4	Ethylbenzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	100-42-5	Styrene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	10061-01-5	cis-1,3-Dichloropropene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	10061-02-6	trans-1,3-Dichloropropene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	107-06-2	1,2-Dichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	108-10-1	4-Methyl-2-Pentanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	124-48-1	Dibromochloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	127-18-4	Tetrachloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	1330-20-7	Xylenes (total)	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	540-59-0	1,2-Dichloroethene(Total)	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	56-23-5	Carbon tetrachloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	591-78-6	2-Hexanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	67-64-1	Acetone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	67-66-3	Chloroform	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05

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Report WGPP/ver. 1.1
Groundwater Remediation Program

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20050854

Sample #	Client ID			CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W050001193	B1C7D3	GRP	TRENT	71-55-6	1,1,1-Trichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	74-83-9	Bromomethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	74-87-3	Chloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	75-00-3	Chloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	75-01-4	Vinyl chloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	75-09-2	Methylenechloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	75-15-0	Carbon disulfide	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	75-25-2	Bromoform	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	75-27-4	Bromodichloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	78-87-5	1,2-Dichloropropane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	78-93-3	2-Butanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	79-00-5	1,1,2-Trichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	79-34-6	1,1,2,2-Tetrachloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	71-36-3	1-Butanol	SOIL	LA-523-455	U	< 42.0	ug/kg	1.00	42	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	156-60-5	trans-1,2-Dichloroethylene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001193	B1C7D3	GRP	TRENT	156-59-2	cis-1,2-Dichloroethylene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	TPHGASOLINE	Total Pet. Hydrocarbons Gas	SOIL	LA-523-443	U	< 250	ug/kg	1.00	2.5e+02	04/27/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	12674-11-2	Aroclor-1016	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	04/22/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	11104-28-2	Aroclor-1221	SOIL	LA-523-427	U	< 100	ug/kg	1.00	1.0e+02	04/22/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	11141-16-5	Aroclor-1232	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	04/22/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	53469-21-9	Aroclor-1242	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	04/22/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	12672-29-6	Aroclor-1248	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	04/22/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	11097-69-1	Aroclor-1254	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	04/22/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	11096-82-5	Aroclor-1260	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	04/22/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	37324-23-5	Aroclor-1262	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	04/22/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	11100-14-4	Aroclor-1268	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	04/22/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	100-02-7	4-Nitrophenol	SOIL	LA-523-456	U	< 160	ug/kg	1.00	1.6e+02	05/02/05	04/13/05	04/19/05

MDL = Minimum Detection Limit
RQ = Result Qualifier

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

U - Analyzed for but not detected above limiting criteria.

DF = Dilution Factor

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

REVISED Dayes 7/5/05

WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20050854

Sample #	Client ID			CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W050001195	B1C7D4	GRP	TRENT	106-46-7	1,4-Dichlorobenzene	SOIL	LA-523-456	U	< 140	ug/kg	1.00	1.4e+02	05/02/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	108-95-2	Phenol	SOIL	LA-523-456	U	< 87.0	ug/kg	1.00	87	05/02/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	120-82-1	1,2,4-Trichlorobenzene	SOIL	LA-523-456	U	< 83.0	ug/kg	1.00	83	05/02/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	121-14-2	2,4-Dinitrotoluene	SOIL	LA-523-456	U	< 63.0	ug/kg	1.00	63	05/02/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	129-00-0	Pyrene	SOIL	LA-523-456	U	< 50.0	ug/kg	1.00	50	05/02/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	59-50-7	4-Chloro-3-methylphenol	SOIL	LA-523-456	U	< 75.0	ug/kg	1.00	75	05/02/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	621-64-7	N-Nitrosodi-n-dipropylamine	SOIL	LA-523-456	U	< 73.0	ug/kg	1.00	73	05/02/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	83-32-9	Acenaphthene	SOIL	LA-523-456	U	< 55.0	ug/kg	1.00	55	05/02/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	87-86-5	Pentachlorophenol	SOIL	LA-523-456	U	< 74.0	ug/kg	1.00	74	05/02/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	95-57-8	2-Chlorophenol	SOIL	LA-523-456	U	< 130	ug/kg	1.00	1.3e+02	05/02/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	126-73-8	Tributyl phosphate	SOIL	LA-523-456	U	< 33.0	ug/kg	1.00	33	05/02/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	75-35-4	1,1-Dichloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	79-01-6	Trichloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	71-43-2	Benzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	108-88-3	Toluene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	108-90-7	Chlorobenzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	75-34-3	1,1-Dichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	100-41-4	Ethylbenzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	100-42-5	Styrene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	10061-01-5	cis-1,3-Dichloropropene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	10061-02-6	trans-1,3-Dichloropropene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	107-06-2	1,2-Dichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	108-10-1	4-Methyl-2-Pentanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	124-48-1	Dibromochloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	127-18-4	Tetrachloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	1330-20-7	Xylenes (total)	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	540-59-0	1,2-Dichloroethene(Total)	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05

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

REVISED Dayes 7/5/05

WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20050854

Sample #	Client ID			CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W050001195	B1C7D4	GRP	TRENT	56-23-5	Carbon tetrachloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	591-78-6	2-Hexanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	67-64-1	Acetone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	67-66-3	Chloroform	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	71-55-6	1,1,1-Trichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	74-83-9	Bromomethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	74-87-3	Chloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	75-00-3	Chloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	75-01-4	Vinyl chloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	75-09-2	Methylenechloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	75-15-0	Carbon disulfide	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	75-25-2	Bromoform	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	75-27-4	Bromodichloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	78-87-5	1,2-Dichloropropane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	78-93-3	2-Butanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	79-00-5	1,1,2-Trichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	79-34-5	1,1,2,2-Tetrachloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	71-36-3	1-Butanol	SOIL	LA-523-455	U	< 41.0	ug/kg	1.00	41	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	156-60-5	trans-1,2-Dichloroethylene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	156-59-2	cis-1,2-Dichloroethylene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	04/26/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	TPHDIESEL	Total Pet. Hydrocarbons Diesel	SOIL	NWTPH		1.20e+05	ug/kg	1.00	3.9e+03	04/27/05	04/13/05	04/19/05
W050001195	B1C7D4	GRP	TRENT	TPHKEROSENE	Kerosene	SOIL	NWTPH		1.00e+05	ug/kg	1.00	3.9e+03	04/27/05	04/13/05	04/19/05

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RQ=Result Qualifier

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

Report WGPP/ver. 1.1
Groundwater Remediation Program

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WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050854
Matrix: SOLID
Test: PCBs complete list

SAF Number: F04-015
Sample Date: 04/13/05
Receive Date:04/19/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W050001192									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	Decachlorobiphenyl	2051-24-3	1077.1	104.000	% Recov	04/21/05	50.000	150.000	
SURR	Tetrachloro-m-xylene	877-09-8	1011.7	97.400	% Recov	04/21/05	50.000	150.000	
Lab ID: W050001195									
BATCH QC ASSOCIATED WITH SAMPLE									
MS	Aroclor-1254	11097-69-1	1062.4	105.000	% Recov	04/25/05	75.000	125.000	
MS	Decachlorobiphenyl	2051-24-3	836.72	82.500	% Recov	04/25/05	50.000	150.000	
MS	Tetrachloro-m-xylene	877-09-8	938.00	92.500	% Recov	04/25/05	50.000	150.000	
MSD	Aroclor-1254	11097-69-1	1035.4	104.000	% Recov	04/25/05	75.000	125.000	
MSD	Decachlorobiphenyl	2051-24-3	872.49	88.100	% Recov	04/25/05	50.000	150.000	
MSD	Tetrachloro-m-xylene	877-09-8	971.22	98.000	% Recov	04/25/05	50.000	150.000	
SPK-RPD	Aroclor-1254	11097-69-1	104.000	0.957	RPD	04/25/05	0.000	25.000	
SPK-RPD	Decachlorobiphenyl	2051-24-3	88.100	6.565	RPD	04/25/05	0.000	20.000	
SPK-RPD	Tetrachloro-m-xylene	877-09-8	98.000	5.774	RPD	04/25/05	0.000	20.000	
SURR	Decachlorobiphenyl	2051-24-3	1054.4	103.000	% Recov	04/22/05	50.000	150.000	
SURR	Tetrachloro-m-xylene	877-09-8	1022.6	99.700	% Recov	04/22/05	50.000	150.000	
BATCH QC									
BLANK	Aroclor-1016	12674-11-2	< 50	n/a	UGKG	04/21/05			U
BLANK	Aroclor-1221	11104-28-2	< 100	n/a	ug/Kg	04/21/05			U
BLANK	Aroclor-1232	11141-16-5	< 50	n/a	ug/Kg	04/21/05			U
BLANK	Aroclor-1242	53469-21-9	< 50	n/a	ug/Kg	04/21/05			U
BLANK	Aroclor-1248	12672-29-6	< 50	n/a	ug/Kg	04/21/05			U
BLANK	Aroclor-1254	11097-69-1	< 50	n/a	ug/Kg	04/21/05			U
BLANK	Aroclor-1260	11096-82-5	< 50	n/a	ug/Kg	04/21/05			U
BLANK	Decachlorobiphenyl	2051-24-3	1193.7	119.000	% Recov	04/21/05	50.000	150.000	

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7/5/05

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050854
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	1046.5	105.000	% Recov	04/21/05	50.000	150.000	
LCS	Aroclor-1254	11097-69-1	1082.0	108.000	% Recov	04/21/05	70.000	130.000	
LCS	Decachlorobiphenyl	2051-24-3	1173.9	117.000	% Recov	04/21/05	50.000	150.000	
LCS	Tetrachloro-m-xylene	877-09-8	1030.2	103.000	% Recov	04/21/05	50.000	150.000	

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7/5/05

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050854
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

SAF Number: F04-015
Sample Date: 04/13/05
Receive Date:04/19/05

Lab ID: W050001192
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MS	1,2,4-Trichlorobenzene	120-82-1	1210.1	87.000	% Recov	05/02/05	46.000	107.000	
MS	1,4-Dichlorobenzene	106-46-7	1189.3	85.500	% Recov	05/02/05	30.000	96.000	
MS	2,4-Dinitrotoluene	121-14-2	1251.4	89.900	% Recov	05/02/05	59.000	106.000	
MS	2-Fluorophenol	367-12-4	1218.6	87.600	% Recov	05/02/05	42.000	105.000	
MS	Acenaphthene	83-32-9	1162.2	83.500	% Recov	05/02/05	61.000	116.000	
MS	4-Chloro-3-methylphenol	59-50-7	2036.7	97.600	% Recov	05/02/05	61.000	106.000	
MS	2-Chlorophenol	95-57-8	1725.4	82.700	% Recov	05/02/05	66.000	106.000	
MS	N-Nitrosodi-n-dipropylamine	621-64-7	1221.9	87.800	% Recov	05/02/05	71.000	114.000	
MS	2-Fluorobiphenyl	321-60-8	1275.7	91.700	% Recov	05/02/05	56.000	122.000	
MS	Phenol	108-95-2	1816.6	87.000	% Recov	05/02/05	42.000	111.000	
MS	Nitrobenzene-d5	4165-60-0	1185.6	85.200	% Recov	05/02/05	64.000	111.000	
MS	4-Nitrophenol	100-02-7	1957.7	93.800	% Recov	05/02/05	32.000	118.000	
MS	Pentachlorophenol	87-86-5	1759.6	84.300	% Recov	05/02/05	62.000	114.000	
MS	Phenol-d5	4165-62-2	1172.8	84.300	% Recov	05/02/05	54.000	120.000	
MS	Pyrene	129-00-0	1024.0	73.600	% Recov	05/02/05	66.000	118.000	
MS	2,4,6-Tribromophenol	118-79-6	1388.5	99.800	% Recov	05/02/05	24.000	122.000	
MS	Terphenyl-d14 (7Cl)	98904-43-9	986.16	70.900	% Recov	05/02/05	35.000	150.000	
MSD	1,2,4-Trichlorobenzene	120-82-1	1199.2	86.300	% Recov	05/02/05	46.000	107.000	
MSD	1,4-Dichlorobenzene	106-46-7	1181.2	85.000	% Recov	05/02/05	30.000	96.000	
MSD	2,4-Dinitrotoluene	121-14-2	1266.8	91.200	% Recov	05/02/05	59.000	106.000	
MSD	2-Fluorophenol	367-12-4	1201.4	86.500	% Recov	05/02/05	42.000	105.000	
MSD	Acenaphthene	83-32-9	1167.7	84.100	% Recov	05/02/05	61.000	116.000	
MSD	4-Chloro-3-methylphenol	59-50-7	1979.2	95.000	% Recov	05/02/05	61.000	106.000	
MSD	2-Chlorophenol	95-57-8	1713.7	82.300	% Recov	05/02/05	66.000	106.000	
MSD	N-Nitrosodi-n-dipropylamine	621-64-7	1171.2	84.300	% Recov	05/02/05	71.000	114.000	
MSD	2-Fluorobiphenyl	321-60-8	1283.3	92.400	% Recov	05/02/05	56.000	122.000	

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7/5/05

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050854
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

SAF Number: F04-015
Sample Date: 04/13/05
Receive Date:04/19/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MSD	Phenol	108-95-2	1795.6	86.200	% Recov	05/02/05	42.000	111.000	
MSD	Nitrobenzene-d5	4165-60-0	1161.2	83.600	% Recov	05/02/05	64.000	111.000	
MSD	4-Nitrophenol	100-02-7	1949.5	93.600	% Recov	05/02/05	32.000	118.000	
MSD	Pentachlorophenol	87-86-5	1697.7	81.500	% Recov	05/02/05	62.000	114.000	
MSD	Phenol-d5	4165-62-2	1153.1	83.000	% Recov	05/02/05	54.000	120.000	
MSD	Pyrene	129-00-0	1003.4	72.200	% Recov	05/02/05	66.000	118.000	
MSD	2,4,6-Tribromophenol	118-79-6	1411.6	102.000	% Recov	05/02/05	24.000	122.000	
MSD	Terphenyl-d14 (7Cl)	98904-43-9	958.65	69.000	% Recov	05/02/05	35.000	150.000	
SPK-RPD	1,2,4-Trichlorobenzene	120-82-1	86.300	0.808	RPD	05/02/05	0.000	20.000	
SPK-RPD	1,4-Dichlorobenzene	106-46-7	85.000	0.587	RPD	05/02/05	0.000	20.000	
SPK-RPD	2,4-Dinitrotoluene	121-14-2	91.200	1.436	RPD	05/02/05	0.000	20.000	
SPK-RPD	2-Fluorophenol	367-12-4	86.500	1.264	RPD	05/02/05	0.000	20.000	
SPK-RPD	Acenaphthene	83-32-9	84.100	0.716	RPD	05/02/05	0.000	20.000	
SPK-RPD	4-Chloro-3-methylphenol	59-50-7	95.000	2.700	RPD	05/02/05	0.000	20.000	
SPK-RPD	2-Chlorophenol	95-57-8	82.300	0.485	RPD	05/02/05	0.000	20.000	
SPK-RPD	N-Nitrosodi-n-dipropylamine	621-64-7	84.300	4.067	RPD	05/02/05	0.000	20.000	
SPK-RPD	2-Fluorobiphenyl	321-60-8	92.400	0.760	RPD	05/02/05	0.000	20.000	
SPK-RPD	Phenol	108-95-2	86.200	0.924	RPD	05/02/05	0.000	20.000	
SPK-RPD	Nitrobenzene-d5	4165-60-0	83.600	1.896	RPD	05/02/05	0.000	20.000	
SPK-RPD	4-Nitrophenol	100-02-7	93.600	0.213	RPD	05/02/05	0.000	20.000	
SPK-RPD	Pentachlorophenol	87-86-5	81.500	3.378	RPD	05/02/05	0.000	20.000	
SPK-RPD	Phenol-d5	4165-62-2	83.000	1.554	RPD	05/02/05	0.000	20.000	
SPK-RPD	Pyrene	129-00-0	72.200	1.920	RPD	05/02/05	0.000	20.000	
SPK-RPD	2,4,6-Tribromophenol	118-79-6	102.000	2.180	RPD	05/02/05	0.000	20.000	
SPK-RPD	Terphenyl-d14 (7Cl)	98904-43-9	69.000	2.716	RPD	05/02/05	0.000	20.000	
SURR	2-Fluorophenol	367-12-4	1210.2	86.900	% Recov	05/02/05	42.000	105.000	
SURR	2-Fluorobiphenyl	321-60-8	1299.4	93.300	% Recov	05/02/05	56.000	122.000	
SURR	Nitrobenzene-d5	4165-60-0	1211.2	86.900	% Recov	05/02/05	64.000	111.000	
SURR	Phenol-d5	4165-62-2	1196.0	85.800	% Recov	05/02/05	54.000	120.000	
SURR	2,4,6-Tribromophenol	118-79-6	1317.3	94.600	% Recov	05/02/05	24.000	122.000	

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7/5/05

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050854
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

SAF Number: F04-015
Sample Date: 04/13/05
Receive Date:04/19/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
SURR	Terphenyl-d14 (7Cl)	98904-43-9	989.71	71.000	% Recov	05/02/05	35.000	150.000	

Lab ID: W050001195
BATCH QC ASSOCIATED WITH SAMPLE

SURR	2-Fluorophenol	367-12-4	1179.3	86.200	% Recov	05/02/05	42.000	105.000	
SURR	2-Fluorobiphenyl	321-60-8	1263.0	92.300	% Recov	05/02/05	56.000	122.000	
SURR	Nitrobenzene-d5	4165-60-0	1187.5	86.800	% Recov	05/02/05	64.000	111.000	
SURR	Phenol-d5	4165-62-2	1177.4	86.100	% Recov	05/02/05	54.000	120.000	
SURR	2,4,6-Tribromophenol	118-79-6	1284.5	93.900	% Recov	05/02/05	24.000	122.000	
SURR	Terphenyl-d14 (7Cl)	98904-43-9	973.13	71.100	% Recov	05/02/05	35.000	150.000	

BATCH QC

BLANK	1,2,4-Trichlorobenzene	120-82-1	< 81	n/a	ug/Kg	05/02/05			U
BLANK	1,4-Dichlorobenzene	106-46-7	< 140	n/a	ug/Kg	05/02/05			U
BLANK	2,4-Dinitrotoluene	121-14-2	< 61	n/a	ug/Kg	05/02/05			U
BLANK	2-Fluorophenol	367-12-4	1141.6	85.600	% Recov	05/02/05	42.000	105.000	
BLANK	Acenaphthene	83-32-9	< 54	n/a	ug/Kg	05/02/05			U
BLANK	4-Chloro-3-methylphenol	59-50-7	< 73	n/a	ug/Kg	05/02/05			U
BLANK	2-Chlorophenol	95-57-8	< 120	n/a	ug/Kg	05/02/05			U
BLANK	N-Nitrosodi-n-dipropylamine	621-64-7	< 71	n/a	ug/Kg	05/02/05			U
BLANK	2-Fluorobiphenyl	321-60-8	1232.3	92.400	% Recov	05/02/05	56.000	122.000	
BLANK	Phenol	108-95-2	< 85	n/a	ug/Kg	05/02/05			U
BLANK	Nitrobenzene d5	4165-60-0	1182.1	88.700	% Recov	05/02/05	64.000	111.000	
BLANK	4-Nitrophenol	100-02-7	< 150	n/a	ug/Kg	05/02/05			U
BLANK	Pentachlorophenol	87-86-5	< 72	n/a	ug/Kg	05/02/05			U
BLANK	Phenol-d5	4165-62-2	1155.3	86.600	% Recov	05/02/05	54.000	120.000	
BLANK	Pyrene	129-00-0	< 49	n/a	ug/Kg	05/02/05			U
BLANK	Tributyl phosphate	126-73-8	< 32	n/a	ug/Kg	05/02/05			U
BLANK	2,4,6-Tribromophenol	118-79-6	981.08	73.600	% Recov	05/02/05	24.000	122.000	
BLANK	Terphenyl-d14 (7Cl)	98904-43-9	1047.0	78.500	% Recov	05/02/05	35.000	150.000	

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7/5/05

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050854
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	1,2,4-Trichlorobenzene	120-82-1	1039.2	77.900	% Recov	05/02/05	46.000	107.000	
LCS	1,4-Dichlorobenzene	106-46-7	901.48	67.600	% Recov	05/02/05	42.000	111.000	
LCS	2,4-Dinitrotoluene	121-14-2	873.15	65.500	% Recov	05/02/05	59.000	106.000	
LCS	2-Fluorophenol	367-12-4	1084.4	81.300	% Recov	05/02/05	50.000	110.000	
LCS	Acenaphthene	83-32-9	1023.2	76.700	% Recov	05/02/05	61.000	116.000	
LCS	4-Chloro-3-methylphenol	59-50-7	1434.9	71.700	% Recov	05/02/05	61.000	106.000	
LCS	2-Chlorophenol	95-57-8	1494.6	74.700	% Recov	05/02/05	66.000	106.000	
LCS	N-Nitrosodi-n-dipropylamine	621-64-7	1012.2	75.900	% Recov	05/02/05	71.000	114.000	
LCS	2-Fluorobiphenyl	321-60-8	1080.0	81.000	% Recov	05/02/05	58.000	109.000	
LCS	Phenol	108-95-2	1490.6	74.500	% Recov	05/02/05	67.000	105.000	
LCS	Nitrobenzene-d5	4165-60-0	1048.2	78.600	% Recov	05/02/05	60.000	118.000	
LCS	4-Nitrophenol	100-02-7	1005.2	50.300	% Recov	05/02/05	32.000	118.000	
LCS	Pentachlorophenol	87-86-5	1206.7	60.300	% Recov	05/02/05	62.000	114.000	
LCS	Phenol-d5	4165-62-2	991.29	74.300	% Recov	05/02/05	59.000	116.000	
LCS	Pyrene	129-00-0	894.89	67.100	% Recov	05/02/05	66.000	118.000	
LCS	2,4,6-Tribromophenol	118-79-6	936.57	70.200	% Recov	05/02/05	60.000	120.000	
LCS	Terphenyl-d14 (7Cl)	98904-43-9	931.98	69.900	% Recov	05/02/05	60.000	120.000	

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7/5/05

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050854
Matrix: SOLID
Test: VOA Ground Water Protection

SAF Number: F04-015
Sample Date: 04/13/05
Receive Date:04/19/05

Lab ID: W050001192
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	50.610	96.700	% Recov	04/26/05	63.000	117.000	
MS	Benzene	71-43-2	50.780	97.000	% Recov	04/26/05	75.000	129.000	
MS	4-Bromofluorobenzene	460-00-4	103.60	98.900	% Recov	04/26/05	84.000	116.000	
MS	Chlorobenzene	108-90-7	52.160	99.600	% Recov	04/26/05	79.000	119.000	
MS	1,2-Dichloroethane-d4	17060-07-0	109.70	105.000	% Recov	04/26/05	82.000	136.000	
MS	Toluene-d8	2037-26-5	109.60	105.000	% Recov	04/26/05	89.000	119.000	
MS	Toluene	108-88-3	54.630	104.000	% Recov	04/26/05	76.000	120.000	
MS	Trichloroethene	79-01-6	50.940	97.300	% Recov	04/26/05	73.000	123.000	
MSD	1,1-Dichloroethene	75-35-4	51.090	97.600	% Recov	04/26/05	63.000	117.000	
MSD	Benzene	71-43-2	51.540	98.400	% Recov	04/26/05	75.000	129.000	
MSD	4-Bromofluorobenzene	460-00-4	102.40	97.800	% Recov	04/26/05	84.000	116.000	
MSD	Chlorobenzene	108-90-7	53.290	102.000	% Recov	04/26/05	79.000	119.000	
MSD	1,2-Dichloroethane-d4	17060-07-0	113.10	108.000	% Recov	04/26/05	82.000	136.000	
MSD	Toluene-d8	2037-26-5	111.10	106.000	% Recov	04/26/05	89.000	119.000	
MSD	Toluene	108-88-3	54.750	105.000	% Recov	04/26/05	76.000	120.000	
MSD	Trichloroethene	79-01-6	51.360	98.100	% Recov	04/26/05	73.000	123.000	
SPK-RPD	1,1-Dichloroethene	75-35-4	97.600	0.926	RPD	04/26/05	0.000	25.000	
SPK-RPD	Benzene	71-43-2	98.400	1.433	RPD	04/26/05	0.000	25.000	
SPK-RPD	4-Bromofluorobenzene	460-00-4	97.800	1.118	RPD	04/26/05	0.000	25.000	
SPK-RPD	Chlorobenzene	108-90-7	102.000	2.381	RPD	04/26/05	0.000	25.000	
SPK-RPD	1,2-Dichloroethane-d4	17060-07-0	108.000	2.817	RPD	04/26/05	0.000	25.000	
SPK-RPD	Toluene-d8	2037-26-5	106.000	0.948	RPD	04/26/05	0.000	25.000	
SPK-RPD	Toluene	108-88-3	105.000	0.957	RPD	04/26/05	0.000	25.000	
SPK-RPD	Trichloroethene	79-01-6	98.100	0.819	RPD	04/26/05	0.000	25.000	
SURR	4-Bromofluorobenzene	460-00-4	103.50	98.800	% Recov	04/26/05	71.000	125.000	
SURR	1,2-Dichloroethane-d4	17060-07-0	107.70	103.000	% Recov	04/26/05	80.000	134.000	

Report w13gq/rev.5.5 p 13
24-jun-2005 12:03:27

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7/5/05

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050854
Matrix: SOLID
Test: VOA Ground Water Protection

SAF Number: F04-015
Sample Date: 04/13/05
Receive Date:04/19/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
SURR	Toluene-d8	2037-26-5	111.60	107.000	% Recov	04/26/05	80.000	126.000	
Lab ID: W050001193									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	4-Bromofluorobenzene	460-00-4	100.60	96.000	% Recov	04/26/05	71.000	125.000	
SURR	1,2-Dichloroethane-d4	17060-07-0	109.60	105.000	% Recov	04/26/05	80.000	134.000	
SURR	Toluene-d8	2037-26-5	112.70	108.000	% Recov	04/26/05	80.000	126.000	
Lab ID: W050001195									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	4-Bromofluorobenzene	460-00-4	101.80	98.600	% Recov	04/26/05	71.000	125.000	
SURR	1,2-Dichloroethane-d4	17060-07-0	110.40	107.000	% Recov	04/26/05	80.000	134.000	
SURR	Toluene-d8	2037-26-5	109.00	106.000	% Recov	04/26/05	80.000	126.000	
BATCH QC									
BLANK	1,1-Dichloroethane	75-34-3	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	1,1,1-Trichloroethane	71-55-6	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	1,1,2-Trichloroethane	79-00-5	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	1,1,2,2-Tetrachloroethane	79-34-5	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	1,1-Dichloroethene	75-35-4	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	1,2-Dichloroethane	107-06-2	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	1,2-Dichloroethene(Total)	540-59-0	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	1-Butanol	71-36-3	< 40	n/a	ug/Kg	04/26/05			U
BLANK	2-Hexanone	591-78-6	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	4-Methyl-2-Pentanone	108-10-1	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	Acetone	67-64-1	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	Bromodichloromethane	75-27-4	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	Benzene	71-43-2	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	4-Bromofluorobenzene	460-00-4	97.960	98.000	% Recov	04/26/05	71.000	125.000	
BLANK	Bromoform	75-25-2	< 2.0	n/a	ug/Kg	04/26/05			U

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7/5/05

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050854
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	Carbon disulfide	75-15-0	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	Carbon tetrachloride	56-23-5	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	Dibromochloromethane	124-48-1	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	Chloroform	67-66-3	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	Chlorobenzene	108-90-7	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	cis-1,2-Dichloroethylene	156-59-2	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	cis-1,3-Dichloropropene	10061-01-5	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	Chloroethane	75-00-3	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	1,2-Dichloroethane-d4	17060-07-0	100.60	101.000	% Recov	04/26/05	80.000	134.000	
BLANK	trans-1,2-Dichloroethylene	156-60-5	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	1,2-Dichloropropane	78-87-5	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	Ethylbenzene	100-41-4	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	Bromomethane	74-83-9	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	Chloromethane	74-87-3	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	2-Butanone	78-93-3	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	Methylenechloride	75-09-2	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	Tetrachloroethene	127-18-4	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	Styrene	100-42-5	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	Xylenes (total)	1330-20-7	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	Toluene-d8	2037-26-5	104.30	104.000	% Recov	04/26/05	80.000	126.000	
BLANK	Toluene	108-88-3	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	trans-1,3-Dichloropropene	10061-02-6	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	Trichloroethene	79-01-6	< 2.0	n/a	ug/Kg	04/26/05			U
BLANK	Vinyl chloride	75-01-4	< 2.0	n/a	ug/Kg	04/26/05			U
LCS	1,1-Dichloroethene	75-35-4	45.470	90.900	% Recov	04/26/05	70.000	130.000	
LCS	Benzene	71-43-2	50.200	100.000	% Recov	04/26/05	70.000	130.000	
LCS	4-Bromofluorobenzene	460-00-4	97.770	97.800	% Recov	04/26/05	71.000	125.000	
LCS	Chlorobenzene	108-90-7	49.360	98.700	% Recov	04/26/05	70.000	130.000	
LCS	1,2-Dichloroethane-d4	17060-07-0	103.80	104.000	% Recov	04/26/05	80.000	134.000	
LCS	Toluene-d8	2037-26-5	106.80	107.000	% Recov	04/26/05	80.000	126.000	

Report w13gq/rev.5.5 p 15
24-jun-2005 12:03:27

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R Dayner
7/5/05

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050854
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
LCS	Toluene	108-88-3	51.810	104.000	% Recov	04/26/05	70.000	130.000	
LCS	Trichloroethene	79-01-6	47.780	95.600	% Recov	04/26/05	70.000	130.000	

Report w13gq/rev.5.5 p 16
24-jun-2005 12:03:27

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7/5/05

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050854
Matrix: SOLID
Test: WTPH-D TPH Diesel Range (Wa)

SAF Number: F04-015
Sample Date: 04/13/05
Receive Date:04/19/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W050001192									
BATCH QC ASSOCIATED WITH SAMPLE									
MS	ortho-Terphenyl Surr	84-15-1	25756	98.800	% Recov	04/28/05	70.000	130.000	
MS	Total Pet. Hydrocarbons Diesel	TPHDIESEL	128750	98.800	% Recov	04/28/05	75.000	125.000	
MSD	ortho-Terphenyl Surr	84-15-1	27143	96.000	% Recov	04/27/05	70.000	130.000	
MSD	Total Pet. Hydrocarbons Diesel	TPHDIESEL	128270	90.700	% Recov	04/27/05	75.000	125.000	
SPK-RPD	ortho-Terphenyl Surr	84-15-1	96.000	2.875	RPD	04/27/05	0.000	20.000	
SPK-RPD	Total Pet. Hydrocarbons Diesel	TPHDIESEL	90.700	8.549	RPD	04/27/05	0.000	20.000	
SURR	ortho-Terphenyl Surr	84-15-1	23118	88.600	% Recov	04/27/05	70.000	130.000	
Lab ID: W050001195									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	ortho-Terphenyl Surr	84-15-1	25024	95.900	% Recov	04/27/05	70.000	130.000	
BATCH QC									
BLANK	Kerosene	TPHKEROSENE	< 3800	n/a	ug/Kg	04/27/05			U
BLANK	ortho-Terphenyl Surr	84-15-1	23393	93.600	% Recov	04/27/05	70.000	130.000	
BLANK	Total Pet. Hydrocarbons Diesel	TPHDIESEL	< 3800	n/a	ug/Kg	04/27/05			U
LCS	Kerosene	TPHKEROSENE	110800	88.600	% Recov	04/27/05	70.000	130.000	
LCS	ortho-Terphenyl Surr	84-15-1	23115	92.500	% Recov	04/27/05	70.000	130.000	

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WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050854
Matrix: SOLID
Test: NWTPH-GX TPH Gasoline Range

SAF Number: F04-015
Sample Date: 04/13/05
Receive Date:04/19/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W050001192									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Total Pet. Hydrocarbons Gas	TPHGASOLINE	<250	n/a	RPD	04/27/05	0.000	20.000	U
MS	Total Pet. Hydrocarbons Gas	TPHGASOLINE	3600	100.000	% Recov	04/27/05	50.000	150.000	
MSD	Total Pet. Hydrocarbons Gas	TPHGASOLINE	3800	105.556	% Recov	04/27/05	50.000	150.000	
SPK-RPD	Total Pet. Hydrocarbons Gas	TPHGASOLINE	105.556	5.406	RPD	04/27/05	0.000	20.000	
BATCH QC									
BLANK	Total Pet. Hydrocarbons Gas	TPHGASOLINE	<250	n/a	mg/L	04/27/05	0.000	300.000	U
LCS	Total Pet. Hydrocarbons Gas	TPHGASOLINE	7800	113.043	% Recov	04/27/05	85.000	115.000	

Report w13gq/rev.5.5 p 17
24-jun-2005 12:03:27

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WSCF
ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F04-015

Group #: WSCF20050854

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		ORGANICS: Sample results are corrected for moisture and reported as dry weight basis. gar SVOA: Pentachlorophenol-d5 is out low in the LCS by about 2% . Samples W050001192 and W050001195 had to be reextracted due to problems with the prep. Both samples were reextracted on 5/2/05 after holding time expired. Surrogate Nitrobenzene-d5 is out low in sample W050001091. den Both sets of extractions on 4/21/05, and 5/2/05 had no target compounds of interest found in the samples W050001192, and W050001195. gar ICP-MS: LCS recoveries are within manufacturers specifications; no flags. Low copper MSD but all other QC are acceptable; no flag.

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 #: WSCF20050854

Sample #	Client ID			Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W050001192	B1C7D2	GRP	TRENT	SW-846 8270B Semi-Vols	SMP 12.892 Diethylphthalate	84-66-2	12.89211		7.9e+02	ug/kg
W050001192	B1C7D2	GRP	TRENT	SW-846 8270B Semi-Vols	SMP 16.675 Di-n-butylphthalate	84-74-2	16.67591		2.5e+02	ug/kg
W050001192	B1C7D2	GRP	TRENT	SW-846 8270B Semi-Vols	SMP 18.573 Octadecanoic acid	57-11-4	18.57318	J	1.6e+02	ug/kg
W050001192	B1C7D2	GRP	TRENT	SW-846 8270B Semi-Vols	SMP 22.955 Unknown Hydrocarbon	Unknown	22.95556	J	1.4e+02	ug/kg
W050001192	B1C7D2	GRP	TRENT	SW-846 8270B Semi-Vols	SMP 23.682 Unknown Hydrocarbon	Unknown	23.6824	J	1.1e+02	ug/kg
W050001195	B1C7D4	GRP	TRENT	SW-846 8270B Semi-Vols	SMP 12.886 Diethylphthalate	84-66-2	12.88665		4.1e+02	ug/kg
W050001195	B1C7D4	GRP	TRENT	SW-846 8270B Semi-Vols	SMP 16.670 Di-n-butylphthalate	84-74-2	16.67045		3.7e+02	ug/kg

RQ=Result Qualifier J - Analyte is an estimate, has potentially larger errors

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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-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
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	

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.

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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.

	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-94-111 300.0	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.

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7/5/05

w13qlog v1 24-jun-2005 12:03:13

W13q Worklist/Batch/QC Report for Group# WSCF20050854

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
				SAMPLE	W050001192	Percent Solids
				SAMPLE	W050001193	Percent Solids
				SAMPLE	W050001195	Percent Solids
			29598	DUP	W050001192	pH Soil and Waste Measurement
			29598	SAMPLE	W050001192	pH Soil and Waste Measurement
			29598	SAMPLE	W050001195	pH Soil and Waste Measurement
			29621	BLANK		Cyanide by Midi/Spectrophotom
			29621	BLNK-PREP		Cyanide by Midi/Spectrophotom
			29621	LCS		Cyanide by Midi/Spectrophotom
			29621	MS	W050001192	Cyanide by Midi/Spectrophotom
			29621	MSD	W050001192	Cyanide by Midi/Spectrophotom
			29621	SAMPLE	W050001192	Cyanide by Midi/Spectrophotom
			29621	SPK-RPD	W050001192	Cyanide by Midi/Spectrophotom
			29621	SAMPLE	W050001195	Cyanide by Midi/Spectrophotom
			29624	BLANK		PCBs complete list
			29624	LCS		PCBs complete list
			29624	SAMPLE	W050001192	PCBs complete list
			29624	SURR	W050001192	PCBs complete list
			29624	MS	W050001195	PCBs complete list
			29624	MSD	W050001195	PCBs complete list
			29624	SAMPLE	W050001195	PCBs complete list
			29624	SPK-RPD	W050001195	PCBs complete list
			29624	SURR	W050001195	PCBs complete list
25786	2	26154	29625	BLANK		Anions by Ion Chromatography
25786	9	26154	29625	BLANK		Anions by Ion Chromatography
25786	3	26154	29625	LCS		Anions by Ion Chromatography
25786	5	26154	29625	DUP	W050001192	Anions by Ion Chromatography
25786	6	26154	29625	MS	W050001192	Anions by Ion Chromatography
25786	7	26154	29625	MSD	W050001192	Anions by Ion Chromatography
25786	4	26154	29625	SAMPLE	W050001192	Anions by Ion Chromatography
25786	8	26154	29625	SAMPLE	W050001195	Anions by Ion Chromatography
25813	11	26183	29654	BLANK		ICP-2008 MS All possible metal
25813	12	26183	29654	LCS		ICP-2008 MS All possible metal
25813	14	26183	29654	MS	W050001192	ICP-2008 MS All possible metal
25813	15	26183	29654	MSD	W050001192	ICP-2008 MS All possible metal
25813	13	26183	29654	SAMPLE	W050001192	ICP-2008 MS All possible metal
25813	15	26183	29654	SPK-RPD	W050001192	ICP-2008 MS All possible metal
25813	16	26183	29654	SAMPLE	W050001195	ICP-2008 MS All possible metal
			29718	BLANK		SW-846 8270B Semi-Vols
			29718	LCS		SW-846 8270B Semi-Vols
			29718	MS	W050001192	SW-846 8270B Semi-Vols
			29718	MSD	W050001192	SW-846 8270B Semi-Vols
			29718	SAMPLE	W050001192	SW-846 8270B Semi-Vols
			29718	SPK-RPD	W050001192	SW-846 8270B Semi-Vols
			29718	SURR	W050001192	SW-846 8270B Semi-Vols
			29718	SAMPLE	W050001195	SW-846 8270B Semi-Vols
			29718	SURR	W050001195	SW-846 8270B Semi-Vols

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			29858	BLANK		VOA Ground Water Protection
			29858	LCS		VOA Ground Water Protection
			29858	MS	W050001192	VOA Ground Water Protection
			29858	MSD	W050001192	VOA Ground Water Protection
			29858	SAMPLE	W050001192	VOA Ground Water Protection
			29858	SPK-RPD	W050001192	VOA Ground Water Protection
			29858	SURR	W050001192	VOA Ground Water Protection
			29858	SAMPLE	W050001193	VOA Ground Water Protection
			29858	SURR	W050001193	VOA Ground Water Protection
			29858	SAMPLE	W050001195	VOA Ground Water Protection
			29858	SURR	W050001195	VOA Ground Water Protection
26016	1	26389	29888	BLANK		NWTPH-GX TPH Gasoline Range
26016	2	26389	29888	LCS		NWTPH-GX TPH Gasoline Range
26016	4	26389	29888	DUP	W050001192	NWTPH-GX TPH Gasoline Range
26016	5	26389	29888	MS	W050001192	NWTPH-GX TPH Gasoline Range
26016	6	26389	29888	MSD	W050001192	NWTPH-GX TPH Gasoline Range
26016	3	26389	29888	SAMPLE	W050001192	NWTPH-GX TPH Gasoline Range
26016	6	26389	29888	SPK-RPD	W050001192	NWTPH-GX TPH Gasoline Range
26016	7	26389	29888	SAMPLE	W050001195	NWTPH-GX TPH Gasoline Range
			29894	BLANK		WTPH-D TPH Diesel Range (Wa)
			29894	LCS		WTPH-D TPH Diesel Range (Wa)
			29894	MS	W050001192	WTPH-D TPH Diesel Range (Wa)
			29894	MSD	W050001192	WTPH-D TPH Diesel Range (Wa)
			29894	SAMPLE	W050001192	WTPH-D TPH Diesel Range (Wa)
			29894	SPK-RPD	W050001192	WTPH-D TPH Diesel Range (Wa)
			29894	SURR	W050001192	WTPH-D TPH Diesel Range (Wa)
			29894	SAMPLE	W050001195	WTPH-D TPH Diesel Range (Wa)
			29894	SURR	W050001195	WTPH-D TPH Diesel Range (Wa)

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M8141-SLF-05-268

ATTACHMENT 3

SAMPLE RECEIPT INFORMATION

Consisting of 8 pages
Including cover page

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7/5/05

Waste Sampling and Characterization Facility
P.O. BOX 1970 S3-30, Richland, WA 99352
PHONE: (509) 373-7004/FAX: (509) 373-7134

File
NB
5/19/05

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 119144/ES10
Group#: 20050854
Project#: F04-015
Proj Mgr: Steve Trent A0-21
Phone: 373-5869

The following samples were received from you on 04/19/05. 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
W050001192	B1C7D2	GRP	TRENT Solid, or handle as if solid				04/13/05
		@2008	@IC-30	@PCBGPP	@SVOCGPP	@TPHD-WA	
		@TPHG-WA	@VOA-GPP	CN-02	PERSOLID	PH-30	
W050001193	B1C7D3	GRP	TRENT Solid, or handle as if solid				04/13/05
		@VOA-GPP	PERSOLID				
W050001195	B1C7D4	GRP	TRENT Solid, or handle as if solid				04/13/05
		@2008	@IC-30	@PCBGPP	@SVOCGPP	@TPHD-WA	
		@TPHG-WA	@VOA-GPP	CN-02	PERSOLID	PH-30	

Test Acronym Description

Test Acronym	Description
@2008	ICP-2008 MS All possible metal
@IC-30	Anions by Ion Chromatography
@PCBGPP	PCBs complete list
@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

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5/19/05

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F04-015-157	PAGE 1 OF 2

COLLECTOR Pope/Pfister/Tyra/Wiberg	**COMPANY CONTACT** CS Cearlock	**TELEPHONE NO.** 372-9638	**PROJECT COORDINATOR** TRENT, SJ
SAMPLING LOCATION 200-E-4; 9-10 ft	**PROJECT DESIGNATION** 200-MW-1 Characterization Sampling and Analysis - Soil		**SAF NO.** F04-015
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 119144ES10	**METHOD OF SHIPMENT** Government Vehicle
SHIPPED TO Waste Sampling & Characterization	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / ~~45 Days~~ AP 4-19-05

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: B1C7C8

20050854

PRESERVATION	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	NONE					
TYPE OF CONTAINER	aG	aG	aG	aGs*	aG	P	AG	AP				
NO. OF CONTAINER(S)	1	1	1	~~1~~ 2 AP 4-19-05	1	1	1	4-19-05				
VOLUME	250mL	120mL	250mL	40mL	120mL	500mL AP 4-19-05	120mL					
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	SEE ITEM 6 IN SPEC. INST.					

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1C7D2 IN05000192	SOIL	4/13/05	1005	X	X	X	X	X					
~~B1C7C8~~	~~SOIL~~	~~4-13-05~~	~~1005~~ 4-19-05							X			

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
JSPOPE / ASPhr 4-13-05	1400	MU-026 / REF #1 4-13-05	1400
MU-026 / REF #1 4-19-05	0600	JSPOPE / ASPhr 4-19-05	0600
JSPOPE / ASPhr 4-19-05	0945	[illegible] 4/19/05	0945

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

RUN Gamma Spectroscopy ON ICP/MS Bottle

REVISED [illegible] 7/5/05

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

A-6003-618(03/03)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F04-015-157	PAGE 2 OF 2
COLLECTOR Pope/Pfister/Tyra/Wiberg	**COMPANY CONTACT** CS Cearlock	**TELEPHONE NO.** 372-9638	**PROJECT COORDINATOR** TRENT, SJ	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION 200-E-4; 9-10 ft	**PROJECT DESIGNATION** 200-MW-1 Characterization Sampling and Analysis - Soil		**SAF NO.** F04-015	**AIR QUALITY** ☐	**45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 119144ES10	**METHOD OF SHIPMENT** Government Vehicle		
SHIPPED TO Waste Sampling & Characterization	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS PMG 2/11/05

** 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, Phosphorous in 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} PMG 2/11/05
(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;~~ [illegible] 4-19-05
~~(6) Activity scan - 24 hr turnaround~~ RQ 4.19-05

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7/5/05

A-6003-618(03/03)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F04-015-158	PAGE 1 OF 2
COLLECTOR Pope/Pfister/Tyra/Wiberg	COMPANY CONTACT CS Cearlock	TELEPHONE NO. 372-9638	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION 200-E-4; 9-10 ft	PROJECT DESIGNATION 200-MW-1 Characterization Sampling and Analysis - Soil		SAF NO. F04-015	AIR QUALITY ☐	45 Days / ~~45 Days~~ 4-19-05
ICE CHEST NO.	FIELD LOGBOOK NO.	COA 119144ES10	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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
N/A

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1C7C8

PRESERVATION	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None						
TYPE OF CONTAINER	aG	aG	aG	aGs*	aG	P						
NO. OF CONTAINER(S)	1	1	1	~~3~~ 2 4-19-05	1	1						
VOLUME	250mL	120mL	250mL	40mL	120mL	500mL						
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	PCBs - 8082; 4-18-05	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	SEE ITEM (4) IN SPECIAL INSTRUCTIONS	SEE ITEM (5) IN SPECIAL INSTRUCTIONS						

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1C7D3 WU5000 1193	SOIL	4-13-05	1005				X						

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM JSPope / [signature] 4-13-05	DATE/TIME 1400	RECEIVED BY/STORED IN MU-026 / REF #1 4-13-05	DATE/TIME 1400
RELINQUISHED BY/REMOVED FROM MU-026 / REF #1 4-19-05	DATE/TIME 0600	RECEIVED BY/STORED IN [signature] / JSPope 4-19-05	DATE/TIME 0600
RELINQUISHED BY/REMOVED FROM JSPope / [signature] 4-19-05	DATE/TIME 0945	RECEIVED BY/STORED IN [signature] 4/19/05	DATE/TIME 0945
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
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

REVISED
[signature]
7/5/05

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

A-6003-618(03/03)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F04-015-158	PAGE 2 OF 2
COLLECTOR Pope/Pfister/Tyra/Wiberg	COMPANY CONTACT CS Cearlock	TELEPHONE NO. 372-9638	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION 200-E-4; 9-10 ft	PROJECT DESIGNATION 200-MW-1 Characterization Sampling and Analysis - Soil		SAF NO. F04-015	AIR QUALITY ☐	45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	COA 119144ES10	METHOD OF SHIPMENT Government Vehicle		
SHIPPED TO Waste Sampling & Characterization	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS PMG 2/11/05

** 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, Phosphorous in 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)~~ PMG 2/11/05

(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;~~

REVISED Dayes 7/5/05

A-6003-618(03/03)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F04-015-163	PAGE 1 OF 2
COLLECTOR Pope/Pfister/Tyra/Wiberg	COMPANY CONTACT CS Cearlock	TELEPHONE NO. 372-9638	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION 200-E-4; 14-15 ft	PROJECT DESIGNATION 200-MW-1 Characterization Sampling and Analysis - Soil		SAF NO. F04-015	AIR QUALITY ☐	45 Days / ~~45 Days~~ 48 4-19-05
ICE CHEST NO.	FIELD LOGBOOK NO.	COA 119144ES10	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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
N/A

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1C7C9

PRESERVATION				Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None				
TYPE OF CONTAINER				aG	aG	aG	aGs*	aG	P				
NO. OF CONTAINER(S)				1	1	1	3 2 1 4-17-05	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				
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1C7D4 WUS003 1195	SOIL	4-13-05	1055	X	X	X	X	X					

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
JSPope/ASpor 4-13-05	1400	MW-026 / Ref. #1 4-13-05	1400
MW-026 / Ref. #1 4-19-05	0600	JSPope/ASpor 4-19-05	0600
JSPope/ASpor 4-19-05	0945	[signature] 4/19/05	0945

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
RUN GAMMA SPECTROSCOPY ON ICP/MS BOTTLE

REVISED [signature] 7/5/05

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

A-6003-618(03/03)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F04-015-163	PAGE 2 OF 2
COLLECTOR Pope/Pfister/Tyra/Wiberg	**COMPANY CONTACT** CS Cearlock	**TELEPHONE NO.** 372-9638	**PROJECT COORDINATOR** TRENT, SJ	**PRICE CODE** 8N **AIR QUALITY** ☐	**DATA TURNAROUND** 45 Days
SAMPLING LOCATION 200-E-4; 14-15 ft	**PROJECT DESIGNATION** 200-MW-1 Characterization Sampling and Analysis - Soil		**SAF NO.** F04-015		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 119144ES10	**METHOD OF SHIPMENT** Government Vehicle		
SHIPPED TO Waste Sampling & Characterization	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS PMG 2/11/05

** 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,~~ Phosphorous in 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} PMG 2/11/05

(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;~~ AS 4-19-05

REVISED
Dayes
7/5/05

A-6003-618(03/03)