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Richland, Washington 99352

0060794

FLUOR

Memorandum

T4180-03-SLF-023

To:	S. J. Trent		Date:	August 6, 2003
From:	S. L. Fitzgerald, Manager WSCF Analytical Services		Telephone:	373-7495
	W/Attachments		W/O Attachments	
cc:	T. F. Dale	S3-28	C. M. Caprio	S3-30
	S. L. Fitzgerald	S3-30	D. L. Renberger	S3-30
	H. K. Meznarich	S3-30	L. C. Swanson	E6-35
	J. E. Trechter	S3-30	File/LB	
	M. Neely	S3-30		

Subject: FINAL RESULTS FOR 200-PW-2/200-PW-4 OU- BOREHOLE SOIL SAMPLING-SAMPLE DELIVERY GROUP WSCF20030863 SAF NUMBER F03-006

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

(2) HNF-SD-CD-QAPP-017, Rev. 5, Waste Sampling and Characterization Facility Quality Assurance Plan

This letter contains a narrative (Attachment 1) for the sample delivery group (WSCF20030863), the analytical results (Attachment 2) and the sample receipt information (Attachment 3).

slf/fjh

Attachments 3

RECEIVED
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T4180-03-SLF-023

ATTACHMENT 1

NARRATIVE

Consisting of 3 pages
Cover page not included

Sample Delivery Group	**WSCF20030863**
Sample Matrix	**Soil**
Sample Visual	**Brown**
SAF Number	**F03-006**
Data Deliverable	**Summary Report**

Introduction

Two (2) soil samples (B17486 and B173T7) from the GPP were received at the WSCF Laboratory on July 1, 2003. The samples were analyzed for those analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Groundwater Protection 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 Request for Sample Analysis forms are included as Attachment 3.

Analytical Methodology for Requested Analyses

- PCB's by EPA SW-846 Method 8082. Analytical work was performed with no deviations to the approved method.
- ICP-MS Metals by EPA Method 200.8 and ICP-AES Metals by EPA SW-846 Method 6010A. Analytical work was performed with no deviations to the approved method.
- VOA's by EPA SW-846 Method 8260A. Analytical work was performed with no deviations to the approved method.
- Semi-VOA's by EPA SW-846 Method 8270B. Analytical work was performed with no deviations to the approved method.
- Alcohols and Glycols by EPA SW-846 Method 8015. Analytical work was performed with no deviations to the approved method.
- WTPH-D by WDOE Method NWTPH-Dx. Analytical work was performed with no deviations to the approved method.
- WTPH-G by WDOE Method NWTPH-Gx. Analytical work was performed with no deviations to the approved method.

- IC Anions and Ammonium by EPA SW-846 Method 300.0 and 300.7. Analytical work was performed with no deviations to the approved method for Ammonium, but a deviation was required for the Anions (see comments below).

- The pH by EPA Method 150.1. 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.

- Cyanide by EPA SW-846 Method 9010. Analytical work was performed with no deviations to the approved method.

- All RadChem analyses (AEA's, GEA) were run by internal WDOE accredited WSCF procedures. Analytical work was performed with no deviations to the approved method.

Comments

PCB's – The hold time(s) 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 page(s) 2-37 for QC details.

ICP-AES and ICP-MS Metals – The hold time(s) 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 page(s) 2-34, 2-35, and 2-36 for QC details.

VOA's – The hold time(s) 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 page(s) 2-42 and 2-43 for QC details. Compounds listed on the tentatively identified peak report with an "N" qualifier have been identified with the program used to interpret the raw data.

Semi-VOA's – The hold time(s) 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 page(s) 2-29, 2-30, 2-31, and 2-32 for QC details. Compounds listed on the tentatively identified peak report with an "N" qualifier have been identified with the program used to interpret the raw data.

Alcohols and Glycols – The hold time(s) 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 page(s) 2-45 for QC details.

WTPH-D – The hold time(s) 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 page(s) 2-38 for details.

WTPH-G – The hold time(s) 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 page(s) 2-44 for details.

IC Anions – The client requested hold time(s) 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 page(s) 2-26 and 2-27 for QC details.

NH4 – The hold time(s) 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 page(s) 2-28 for QC details.

Percent Solids – PCB's, VOA's, Semi-VOA's, Alcohols and Glycols, WTPH-G and WTPH-D analytical results were corrected for percent solids. All other analytical results were reported for the sample as received.

CN – The hold time(s) 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 page(s) 2-33 for QC details.

RadChem – There are no hold times associated with these WDOE accredited methods. Except for GEA, a Laboratory Control Sample and Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See page(s) 2-39, 2-40, and 2-41 for QC details.

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.

Troy Dale
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

T4180-03-SLF-023

ATTACHMENT 2

ANALYTICAL RESULTS

Consisting of 45 pages
Cover page not included

WSCF
ANALYTICAL RESULTS REPORT

for

Ground Water Protection Program

Richland, WA 99352

Attention: Steve Trent

Analytical: _____

Client Services: _____

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#: F03-006
Report#: WSCF20030863
Report Date: 5-aug-2003
Report W004/ver. 5.2
Ground Water Protection Program

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20030863

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000600	B173T7	TRENT	7664-41-7	Ammonia (N) by IC	SOLID	LA-503-401	DU	< 0.0400	ug/g	10.00	0.040	07/02/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	57-12-5	Cyanide by Midi/Spectrophotom	SOLID	LA-695-402	U	< 0.190	mg/kg		0.19	07/09/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	TS	Percent Solids	SOLID	LA-519-412		94.9	%		0.0	07/09/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	PH	pH Soil and Waste Measurement	SOLID	LA-212-411		9.24	pH		0.010	07/09/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	540-51-2	2-Bromoethanol	SOLID	Organics		1.30e+04	ug/kg		5.0e+03	07/22/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	60-29-7	Diethyl ether	SOLID	Organics	U	< 5.00e+03	ug/kg		5.0e+03	07/22/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	107-21-1	Ethylene glycol	SOLID	Organics	U	< 5.00e+03	ug/kg		5.0e+03	07/22/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	67-56-1	Methanol	SOLID	Organics	U	< 1.00e+03	ug/kg		1.0e+03	07/22/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	14596-10-2	Am-241 by AEA	SOLID	LA-508-471	U	0.0110	pCi/g		0.024	07/24/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	E,T,C	Am-241 by AEA Total Cntg Error	SOLID	LA-508-471		140	%		0.0	07/24/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	24959-67-9	Bromide (Br) by IC	SOLID	LA-533-410	U	< 0.450	ug/g	10.00	0.45	07/03/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	16887-00-6	Chloride (Cl) by IC	SOLID	LA-533-410		0.239	ug/g	10.00	0.14	07/03/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	16984-48-8	Fluoride (F) by IC	SOLID	LA-533-410		0.393	ug/g	10.00	0.070	07/03/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	NO3-N	Nitrate (N) by IC	SOLID	LA-533-410		0.497	ug/g	10.00	0.050	07/03/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	NO2-N	Nitrite (N) by IC	SOLID	LA-533-410	U	< 0.0900	ug/g	10.00	0.090	07/03/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	14265-44-2	Phosphate (P) by IC	SOLID	LA-533-410	U	< 0.130	ug/g	10.00	0.13	07/03/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	14808-79-8	Sulfate (SO4) by IC	SOLID	LA-533-410		0.918	ug/g	10.00	0.24	07/03/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	E,T,C	Ac-228 Rel.% Count Error (GEA)	SOLID	LA-508-462		22.5	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	14331-83-0	Ac-228 by GEA	SOLID	LA-508-462		0.659	pCi/g		0.096	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	E,T,C	Am-241 Rel.% Count Error (GEA)	SOLID	LA-508-462		100	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	14596-10-2	Am-241 by GEA	SOLID	LA-508-462	U	-0.128	pCi/g		0.14	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	E,T,C	Bi-212 Rel.% Count Error (GEA)	SOLID	LA-508-462		49.3	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	14913-49-6	Bi-212 by GEA	SOLID	LA-508-462		0.416	pCi/g		0.20	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	E,T,C	Bi-214 Rel.% Count Error (GEA)	SOLID	LA-508-462		19.5	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	14733-03-0	Bi-214 by GEA	SOLID	LA-508-462		0.572	pCi/g		0.052	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	E,T,C	Ce-144 Rel.% Count Error (GEA)	SOLID	LA-508-462		175	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	14762-78-8	Ce-144 by GEA	SOLID	LA-508-462	U	0.0545	pCi/g		0.14	07/10/03	07/01/03	07/01/03

MDL=Minimum Detection Limit
RQ=Result Qualifier

D - Analyte was identified at a secondary dilution factor
J - Estimated Value
E - Analyte is an estimate, has potentially larger errors
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

Report W004/ver. 5.2
Ground Water Protection Program

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20030863

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000600	B173T7 TRENT	E,T,C	Co-60 Rel.% Count Error (GEA)	SOLID	LA-508-462		719	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	10198-40-0	Co-60 by GEA	SOLID	LA-508-462	U	2.68e-03	pCi/g		0.033	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	E,T,C	Cs-134 Rel.% Count Error (GEA)	SOLID	LA-508-462		77.4	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	13967-70-9	Cs-134 by GEA	SOLID	LA-508-462	U	0.0246	pCi/g		0.034	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	E,T,C	Cs-137 Rel.% Count Error (GEA)	SOLID	LA-508-462		244	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	10045-97-3	Cs-137 by GEA	SOLID	LA-508-462	U	6.60e-03	pCi/g		0.028	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	E,T,C	Eu-152 Rel.% Count Error (GEA)	SOLID	LA-508-462		317	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	14683-23-9	Eu-152 by GEA	SOLID	LA-508-462	U	-0.0161	pCi/g		0.066	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	E,T,C	Eu-154 Rel.% Count Error (GEA)	SOLID	LA-508-462		100	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	15585-10-1	Eu-154 by GEA	SOLID	LA-508-462	U	-0.0596	pCi/g		0.093	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	E,T,C	Eu-155 Rel.% Count Error (GEA)	SOLID	LA-508-462		391	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	14391-16-3	Eu-155 by GEA	SOLID	LA-508-462	U	-0.0113	pCi/g		0.076	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	E,T,C	Nb-94 Rel.% Count Error (GEA)	SOLID	LA-508-462		150	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	14681-63-1	Nb-94 by GEA	SOLID	LA-508-462	U	-0.0121	pCi/g		0.025	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	E,T,C	Pb-212 Rel.% Count Error (GEA)	SOLID	LA-508-462		10.7	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	15092-94-1	Pb-212 by GEA	SOLID	LA-508-462		0.695	pCi/g		0.038	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	E,T,C	Pb-214 Rel.% Count Error (GEA)	SOLID	LA-508-462		13.6	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	15067-28-4	Pb-214 by GEA	SOLID	LA-508-462		0.677	pCi/g		0.047	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	E,T,C	Ra-226 Rel.% Count Error (GEA)	SOLID	LA-508-462		19.5	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	13982-63-3	Ra-226 by GEA	SOLID	LA-508-462		0.572	pCi/g		0.052	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	E,T,C	Ra-228 Rel.% Count Error (GEA)	SOLID	LA-508-462		22.5	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	15262-20-1	Ra-228 by GEA	SOLID	LA-508-462		0.659	pCi/g		0.096	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	E,T,C	Ru-103 Rel.% Count Error (GEA)	SOLID	LA-508-462		355	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	13968-53-1	Ru-103 by GEA	SOLID	LA-508-462	U	4.03e-03	pCi/g		0.025	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	E,T,C	Ru-106 Rel.% Count Error (GEA)	SOLID	LA-508-462		767	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	13967-48-1	Ru-106 by GEA	SOLID	LA-508-462	U	-0.0180	pCi/g		0.23	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	E,T,C	Sb-125 Rel.% Count Error (GEA)	SOLID	LA-508-462		119	%		0.0	07/10/03	07/01/03	07/01/03

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RQ=Result Qualifier

D - Analyte was identified at a secondary dilution factor
J - Estimated Value
E - Analyte is an estimate, has potentially larger errors
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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20030863

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000600	B173T7 TRENT	14234-35-6	Sb-125 by GEA	SOLID	LA-508-462	U	0.0293	pCi/g		0.062	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	E,T,C	Sn-113 Rel.% Count Error (GEA)	SOLID	LA-508-462		109	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	13966-06-8	Sn-113 by GEA	SOLID	LA-508-462	U	0.0156	pCi/g		0.030	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	E,T,C	Sn-126 Rel.% Count Error (GEA)	SOLID	LA-508-462		36.0	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	15832-50-5	Sn-126 by GEA	SOLID	LA-508-462	U	0.140	pCi/g		0.14	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	E,T,C	Th-234 Rel.% Count Error (GEA)	SOLID	LA-508-462		618	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	15065-10-8	Th-234 by GEA	SOLID	LA-508-462	U	-0.137	pCi/g		1.3	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	E,T,C	Tl-208 Rel.% Count Error (GEA)	SOLID	LA-508-462		21.9	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	14913-50-9	Tl-208 by GEA	SOLID	LA-508-462		0.183	pCi/g		0.026	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	E,T,C	U-235 Rel.% Count Error (GEA)	SOLID	LA-508-462		36.2	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	15117-96-1	U-235 by GEA	SOLID	LA-508-462	U	0.0988	pCi/g		0.16	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	E,T,C	Zn-65 Rel.% Count Error (GEA)	SOLID	LA-508-462		363	%		0.0	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	13982-39-3	Zn-65 by GEA	SOLID	LA-508-462	U	-0.0129	pCi/g		0.067	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	7440-69-9	Bismuth by ICP	SOLID	LA-505-411	U	< 4.75	ug/g	47.51	4.8	07/17/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	7440-42-8	Boron by ICP	SOLID	LA-505-411	U	< 4.846	ug/g	47.51	4.846	07/17/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	7429-90-5	Aluminum by ICP-MS	SOLID	LA-505-412	E	7.60e+03	ug/g	4.72	52	07/21/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	7440-36-0	Antimony by ICP-MS	SOLID	LA-505-412	EU	< 2.36	ug/g	4.72	2.4	07/21/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	7440-38-2	Arsenic by ICP-MS	SOLID	LA-505-412		2.60	ug/g	4.72	1.4	07/21/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	7440-39-3	Barium by ICP-MS	SOLID	LA-505-412	E	59.9	ug/g	4.72	0.94	07/21/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	7440-41-7	Beryllium by ICP-MS	SOLID	LA-505-412	U	< 1.42	ug/g	4.72	1.4	07/21/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	7440-43-9	Cadmium by ICP-MS	SOLID	LA-505-412	U	< 0.472	ug/g	4.72	0.47	07/21/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	7440-47-3	Chromium by ICP-MS	SOLID	LA-505-412	EU	< 1.42	ug/g	4.72	1.4	07/21/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	7440-48-4	Cobalt by ICP-MS	SOLID	LA-505-412		6.13	ug/g	4.72	0.94	07/21/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	7440-50-8	Copper by ICP-MS	SOLID	LA-505-412		13.8	ug/g	4.72	2.4	07/21/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	7439-92-1	Lead by ICP-MS	SOLID	LA-505-412	U	< 5.66	ug/g	4.72	5.7	07/21/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	7439-96-5	Manganese by ICP-MS	SOLID	LA-505-412	E	246	ug/g	4.72	1.4	07/21/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	7439-97-6	Mercury by ICP-MS	SOLID	LA-505-412	U	< 0.472	ug/g	4.72	0.47	07/21/03	07/01/03	07/01/03

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20030863

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000600	B173T7	TRENT	7439-98-7	Molybdenum by ICP-MS	SOLID	LA-505-412	U	< 1.42	ug/g	4.72	1.4	07/21/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	7440-02-0	Nickel by ICP-MS	SOLID	LA-505-412		4.26	ug/g	4.72	2.4	07/21/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	7782-49-2	Selenium by ICP-MS	SOLID	LA-505-412	U	< 1.42	ug/g	4.72	1.4	07/21/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	7440-22-4	Silver by ICP-MS	SOLID	LA-505-412	E	3.12	ug/g	4.72	0.94	07/21/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	7440-28-0	Thallium by ICP-MS	SOLID	LA-505-412	U	< 0.472	ug/g	4.72	0.47	07/21/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	7440-29-1	Thorium by ICP-MS	SOLID	LA-505-412		3.77	ug/g	4.72	0.94	07/21/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	7440-61-1	Uranium by ICP-MS	SOLID	LA-505-412		0.504	ug/g	4.72	0.47	07/21/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	7440-62-2	Vanadium by ICP-MS	SOLID	LA-505-412	E	35.1	ug/g	4.72	1.9	07/21/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	7440-66-6	Zinc by ICP-MS	SOLID	LA-505-412	E	41.5	ug/g	4.72	19	07/21/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	THPGASOLINE	Total Pet. Hydrocarbons Gas	SOLID	NWTPH	U	< 100	ug/kg		1.0e+02	07/14/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	12674-11-2	Aroclor-1016	SOLID	LA-523-427	U	< 52.0	ug/kg	1.00	52	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	11104-28-2	Aroclor-1221	SOLID	LA-523-427	U	< 100	ug/kg	1.00	1.0e+02	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	11141-16-5	Aroclor-1232	SOLID	LA-523-427	U	< 52.0	ug/kg	1.00	52	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	53469-21-9	Aroclor-1242	SOLID	LA-523-427	U	< 52.0	ug/kg	1.00	52	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	12672-29-6	Aroclor-1248	SOLID	LA-523-427	U	< 52.0	ug/kg	1.00	52	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	11097-69-1	Aroclor-1254	SOLID	LA-523-427	U	< 52.0	ug/kg	1.00	52	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	11096-82-5	Aroclor-1260	SOLID	LA-523-427	U	< 52.0	ug/kg	1.00	52	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	37324-23-5	Aroclor-1262	SOLID	LA-523-427	U	< 52.0	ug/kg	1.00	52	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	11100-14-4	Aroclor-1268	SOLID	LA-523-427	U	< 52.0	ug/kg	1.00	52	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	13981-16-3	Pu-238 by AEA	SOLID	LA-508-471	U	1.60e-03	pCi/g		0.019	07/24/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	E,T,C	Pu-238 by AEA Total Cntg Error	SOLID	LA-508-471		1.00e+03	%		0.0	07/24/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	E,T,C	Pu-239/240 AEA Total Cntg Err	SOLID	LA-508-471		200	%		0.0	07/24/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	PU-239/240	Pu-239/240 by AEA	SOLID	LA-508-471	U	1.60e-03	pCi/g		4.2e-03	07/24/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	120-82-1	1,2,4-Trichlorobenzene	SOLID	LA-523-456	U	< 310	ug/kg	1.00	3.1e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	95-50-1	1,2-Dichlorobenzene (SV)	SOLID	LA-523-456	U	< 380	ug/kg	1.00	3.8e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	541-73-1	1,3-Dichlorobenzene	SOLID	LA-523-456	U	< 340	ug/kg	1.00	3.4e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	106-46-7	1,4-Dichlorobenzene (SV)	SOLID	LA-523-456	U	< 330	ug/kg	1.00	3.3e+02	07/10/03	07/01/03	07/01/03

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20030863

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000600	B173T7	TRENT	95-95-4	2,4,5-Trichlorophenol	SOLID	LA-523-456	U	< 77.0	ug/kg	1.00	77	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	88-06-2	2,4,6-Trichlorophenol	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	120-83-2	2,4-Dichlorophenol	SOLID	LA-523-456	U	< 84.0	ug/kg	1.00	84	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	105-67-9	2,4-Dimethylphenol	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	51-28-5	2,4-Dinitrophenol	SOLID	LA-523-456	U	< 700	ug/kg	1.00	7.0e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	121-14-2	2,4-Dinitrotoluene	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	606-20-2	2,6-Dinitrotoluene	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	111-76-2	2-Butoxyethanol	SOLID	LA-523-456	U	< 100	ug/kg	1.00	1.0e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	91-58-7	2-Chloronaphthalene	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	95-57-8	2-Chlorophenol	SOLID	LA-523-456	U	< 150	ug/kg	1.00	1.5e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	91-57-6	2-Methylnaphthalene	SOLID	LA-523-456	U	< 190	ug/kg	1.00	1.9e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	95-48-7	2-Methylphenol	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	88-74-4	2-Nitroaniline	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	88-75-5	2-Nitrophenol	SOLID	LA-523-456	U	< 180	ug/kg	1.00	1.8e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	65794-96-9	3 & 4 Methylphenol Total	SOLID	LA-523-456	U	< 120	ug/kg	1.00	1.2e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	91-94-1	3,3'-Dichlorobenzidine	SOLID	LA-523-456	U	< 84.0	ug/kg	1.00	84	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	99-09-2	3-Nitroaniline	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	534-52-1	4,6-Dinitro-2-methylphenol	SOLID	LA-523-456	U	< 700	ug/kg	1.00	7.0e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	101-55-3	4-Bromophenyl-phenylether	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	59-50-7	4-Chloro-3-methylphenol	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	106-47-8	4-Chloroaniline	SOLID	LA-523-456	U	< 98.0	ug/kg	1.00	98	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	7005-72-3	4-Chlorophenyl-phenylether	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	100-01-6	4-Nitroaniline	SOLID	LA-523-456	U	< 260	ug/kg	1.00	2.6e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	100-02-7	4-Nitrophenol	SOLID	LA-523-456	U	< 680	ug/kg	1.00	6.8e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	83-32-9	Acenaphthene	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	208-96-8	Acenaphthylene	SOLID	LA-523-456	U	< 84.0	ug/kg	1.00	84	07/10/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	120-12-7	Anthracene	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03

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WSCF
ANALYTICAL RESULTS REPORT

2-7

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20030863

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000600	B173T7 TRENT	56-55-3	Benzo(a)anthracene	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	50-32-8	Benzo(a)pyrene	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	205-99-2	Benzo(b)fluoranthene	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	191-24-2	Benzo(g,h,i)perylene	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	207-08-9	Benzo(k)fluoranthene	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	100-51-6	Benzyl alcohol	SOLID	LA-523-456	U	< 80.0	ug/kg	1.00	80	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	117-81-7	Bis (2-Ethylhexyl) phthalate	SOLID	LA-523-456	U	< 590	ug/kg	1.00	5.9e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	108-60-1	Bis(2-Chloro-1-methylene)	SOLID	LA-523-456	U	< 270	ug/kg	1.00	2.7e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	85-68-7	Butylbenzylphthalate	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	86-74-8	Carbazole	SOLID	LA-523-456	U	< 84.0	ug/kg	1.00	84	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	218-01-9	Chrysene	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	84-74-2	Di-n-butylphthalate	SOLID	LA-523-456	U	< 91.0	ug/kg	1.00	91	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	117-84-0	Di-n-octylphthalate	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	53-70-3	Dibenz(a,h)anthracene	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	132-64-9	Dibenzofuran	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	84-66-2	Diethylphthalate	SOLID	LA-523-456	J	280	ug/kg	1.00	2.0e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	131-11-3	Dimethylphthalate	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	206-44-0	Fluoranthene	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	86-73-7	Fluorene	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	118-74-1	Hexachlorobenzene	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	87-68-3	Hexachlorobutadiene	SOLID	LA-523-456	U	< 380	ug/kg	1.00	3.8e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	77-47-4	Hexachlorocyclopentadiene	SOLID	LA-523-456	U	< 330	ug/kg	1.00	3.3e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	67-72-1	Hexachloroethane	SOLID	LA-523-456	U	< 490	ug/kg	1.00	4.9e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	193-39-5	Indeno(1,2,3-cd)pyrene	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	78-59-1	Isophorone	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	621-64-7	N-Nitroso-di-n-propylamine	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	86-30-6	N-Nitrosodiphenylamine	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20030863

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000600	B173T7 TRENT	91-20-3	Naphthalene	SOLID	LA-523-456	U	< 300	ug/kg	1.00	3.0e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	98-95-3	Nitrobenzene	SOLID	LA-523-456	U	< 270	ug/kg	1.00	2.7e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	87-86-5	Pentachlorophenol	SOLID	LA-523-456	U	< 310	ug/kg	1.00	3.1e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	85-01-8	Phenanthrene	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	108-95-2	Phenol	SOLID	LA-523-456	U	< 100	ug/kg	1.00	1.0e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	129-00-0	Pyrene	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	126-73-8	Tri-n-butylphosphate	SOLID	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	111-44-4	bis(-2-Chloroethyl)Eth	SOLID	LA-523-456	U	< 260	ug/kg	1.00	2.6e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	111-91-1	bis(2-Chloroethoxy)methane	SOLID	LA-523-456	U	< 120	ug/kg	1.00	1.2e+02	07/10/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	13966-29-5	U-234 by AEA	SOLID	LA-508-471		0.150	pCi/g		5.1e-03	07/24/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	E,T,C	U-234 by AEA Total Cntg Error	SOLID	LA-508-471		34.0	%		0.0	07/24/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	15117-96-1	U-235 by AEA	SOLID	LA-508-471		0.0180	pCi/g		5.5e-03	07/24/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	E,T,C	U-235 by AEA Total Cntg Error	SOLID	LA-508-471		71.0	%		0.0	07/24/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	24678-82-8	U-238 by AEA	SOLID	LA-508-471		0.170	pCi/g		5.1e-03	07/24/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	E,T,C	U-238 by AEA Total Cntg Error	SOLID	LA-508-471		33.0	%		0.10	07/24/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	71-55-6	1,1,1-Trichloroethane	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	79-34-5	1,1,2,2-Tetrachloroethane	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	79-00-5	1,1,2-Trichloroethane	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	75-34-3	1,1-Dichloroethane	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	75-35-4	1,1-Dichloroethene	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	107-06-2	1,2-Dichloroethane	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	540-59-0	1,2-Dichloroethene (cis & tran	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	78-87-5	1,2-Dichloropropane	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	78-93-3	2-Butanone	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	591-78-6	2-Hexanone	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	107-87-9	2-Pentanone	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7 TRENT	108-10-1	4-Methyl-2-pentanone	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20030863

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000600	B173T7	TRENT	67-64-1	Acetone	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	71-43-2	Benzene	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	75-27-4	Bromodichloromethane	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	75-25-2	Bromoform	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	74-83-9	Bromomethane	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	75-15-0	Carbon Disulfide	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	56-23-5	Carbon Tetrachloride	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	108-90-7	Chlorobenzene	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	75-00-3	Chloroethane	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	67-66-3	Chloroform	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	74-87-3	Chloromethane	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	124-48-1	Dibromochloromethane	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	100-41-4	Ethylbenzene	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	75-09-2	Methylene Chloride	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	100-42-5	Styrene	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	127-18-4	Tetrachloroethene	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	108-88-3	Toluene	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	1330-20-7	Total Xylenes	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	79-01-6	Trichloroethene	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	75-01-4	Vinyl Chloride	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	10061-01-5	cis-1,3-Dichloropropene	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	104-51-8	n-Butylbenzene	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	10061-02-6	trans-1,3-Dichloropropene	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	TPHKEROSENE	Kerosene	SOLID	NWTPH	U	< 3.90e+03	ug/kg	1.00	3.9e+03	07/24/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	THPDIESEL	Total Pet. Hydrocarbons Diesel	SOLID	NWTPH	U	< 3.90e+03	ug/kg	1.00	3.9e+03	07/24/03	07/01/03	07/01/03
W030000600	B173T7	TRENT	84-15-1	ortho-Terphenyl	SOLID	NWTPH		2.00e+04	ug/kg	1.00	5.2e+02	07/24/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7664-41-7	Ammonia (N) by IC	SOLID	LA-503-401		1.55	ug/g	10.00	0.040	07/02/03	07/01/03	07/01/03

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Report W004/ver. 5.2
Ground Water Protection Program

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20030863

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000601	B17486	TRENT	57-12-5	Cyanide by Midi/Spectrophotom	SOLID	LA-695-402	U	< 0.200	mg/kg		0.20	07/09/03	07/01/03	07/01/03
W030000601	B17486	TRENT	TS	Percent Solids	SOLID	LA-519-412		96.9	%		0.0	07/09/03	07/01/03	07/01/03
W030000601	B17486	TRENT	PH	pH Soil and Waste Measurement	SOLID	LA-212-411		9.01	pH		0.010	07/09/03	07/01/03	07/01/03
W030000601	B17486	TRENT	540-51-2	2-Bromoethanol	SOLID	Organics		1.40e+04	ug/kg		5.0e+03	07/22/03	07/01/03	07/01/03
W030000601	B17486	TRENT	60-29-7	Diethyl ether	SOLID	Organics	U	< 5.00e+03	ug/kg		5.0e+03	07/22/03	07/01/03	07/01/03
W030000601	B17486	TRENT	107-21-1	Ethylene glycol	SOLID	Organics	U	< 5.00e+03	ug/kg		5.0e+03	07/22/03	07/01/03	07/01/03
W030000601	B17486	TRENT	67-56-1	Methanol	SOLID	Organics	U	< 1.00e+03	ug/kg		1.0e+03	07/22/03	07/01/03	07/01/03
W030000601	B17486	TRENT	14596-10-2	Am-241 by AEA	SOLID	LA-508-471		0.0630	pCi/g		0.020	07/24/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Am-241 by AEA Total Cntg Error	SOLID	LA-508-471		36.0	%		0.0	07/24/03	07/01/03	07/01/03
W030000601	B17486	TRENT	24959-67-9	Bromide (Br) by IC	SOLID	LA-533-410	U	< 0.450	ug/g	10.00	0.45	07/03/03	07/01/03	07/01/03
W030000601	B17486	TRENT	16887-00-6	Chloride (Cl) by IC	SOLID	LA-533-410		0.333	ug/g	10.00	0.14	07/03/03	07/01/03	07/01/03
W030000601	B17486	TRENT	16984-48-8	Fluoride (F) by IC	SOLID	LA-533-410		0.341	ug/g	10.00	0.070	07/03/03	07/01/03	07/01/03
W030000601	B17486	TRENT	NO3-N	Nitrate (N) by IC	SOLID	LA-533-410		1.32	ug/g	10.00	0.050	07/03/03	07/01/03	07/01/03
W030000601	B17486	TRENT	NO2-N	Nitrite (N) by IC	SOLID	LA-533-410	U	< 0.0900	ug/g	10.00	0.090	07/03/03	07/01/03	07/01/03
W030000601	B17486	TRENT	14265-44-2	Phosphate (P) by IC	SOLID	LA-533-410	U	< 0.130	ug/g	10.00	0.13	07/03/03	07/01/03	07/01/03
W030000601	B17486	TRENT	14808-79-8	Sulfate (SO4) by IC	SOLID	LA-533-410		2.84	ug/g	10.00	0.24	07/03/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Ac-228 Rel.% Count Error (GEA)	SOLID	LA-508-462		20.4	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	14331-83-0	Ac-228 by GEA	SOLID	LA-508-462		0.560	pCi/g		0.081	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Am-241 Rel.% Count Error (GEA)	SOLID	LA-508-462		100	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	14596-10-2	Am-241 by GEA	SOLID	LA-508-462	U	-0.108	pCi/g		0.11	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Bi-212 Rel.% Count Error (GEA)	SOLID	LA-508-462		56.9	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	14913-49-6	Bi-212 by GEA	SOLID	LA-508-462		0.296	pCi/g		0.16	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Bi-214 Rel.% Count Error (GEA)	SOLID	LA-508-462		18.6	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	14733-03-0	Bi-214 by GEA	SOLID	LA-508-462		0.482	pCi/g		0.042	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Ce-144 Rel.% Count Error (GEA)	SOLID	LA-508-462		1.00e+03	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	14762-78-8	Ce-144 by GEA	SOLID	LA-508-462	U	-1.90e-04	pCi/g		0.12	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Co-60 Rel.% Count Error (GEA)	SOLID	LA-508-462		120	%		0.0	07/10/03	07/01/03	07/01/03

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20030863

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000601	B17486	TRENT	10198-40-0	Co-60 by GEA	SOLID	LA-508-462	U	0.0137	pCi/g		0.026	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Cs-134 Rel.% Count Error (GEA)	SOLID	LA-508-462		96.3	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	13967-70-9	Cs-134 by GEA	SOLID	LA-508-462	U	0.0169	pCi/g		0.026	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Cs-137 Rel.% Count Error (GEA)	SOLID	LA-508-462		16.7	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	10045-97-3	Cs-137 by GEA	SOLID	LA-508-462		0.382	pCi/g		0.021	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Eu-152 Rel.% Count Error (GEA)	SOLID	LA-508-462		100	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	14683-23-9	Eu-152 by GEA	SOLID	LA-508-462	U	-0.0451	pCi/g		0.054	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Eu-154 Rel.% Count Error (GEA)	SOLID	LA-508-462		433	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	15585-10-1	Eu-154 by GEA	SOLID	LA-508-462	U	-0.0103	pCi/g		0.074	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Eu-155 Rel.% Count Error (GEA)	SOLID	LA-508-462		102	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	14391-16-3	Eu-155 by GEA	SOLID	LA-508-462	U	0.0418	pCi/g		0.062	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Nb-94 Rel.% Count Error (GEA)	SOLID	LA-508-462		214	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	14681-63-1	Nb-94 by GEA	SOLID	LA-508-462	U	5.61e-03	pCi/g		0.020	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Pb-212 Rel.% Count Error (GEA)	SOLID	LA-508-462		10.8	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	15092-94-1	Pb-212 by GEA	SOLID	LA-508-462		0.519	pCi/g		0.033	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Pb-214 Rel.% Count Error (GEA)	SOLID	LA-508-462		12.8	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	15067-28-4	Pb-214 by GEA	SOLID	LA-508-462		0.596	pCi/g		0.040	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Ra-226 Rel.% Count Error (GEA)	SOLID	LA-508-462		18.6	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	13982-63-3	Ra-226 by GEA	SOLID	LA-508-462		0.482	pCi/g		0.042	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Ra-228 Rel.% Count Error (GEA)	SOLID	LA-508-462		20.4	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	15262-20-1	Ra-228 by GEA	SOLID	LA-508-462		0.560	pCi/g		0.081	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Ru-103 Rel.% Count Error (GEA)	SOLID	LA-508-462		362	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	13968-53-1	Ru-103 by GEA	SOLID	LA-508-462	U	3.42e-03	pCi/g		0.021	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Ru-106 Rel.% Count Error (GEA)	SOLID	LA-508-462		100	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	13967-48-1	Ru-106 by GEA	SOLID	LA-508-462	U	-0.136	pCi/g		0.18	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Sb-125 Rel.% Count Error (GEA)	SOLID	LA-508-462		123	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	14234-35-6	Sb-125 by GEA	SOLID	LA-508-462	U	0.0251	pCi/g		0.054	07/10/03	07/01/03	07/01/03

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20030863

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000601	B17486	TRENT	E,T,C	Sn-113 Rel.% Count Error (GEA)	SOLID	LA-508-462		1.00e+03	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	13966-06-8	Sn-113 by GEA	SOLID	LA-508-462	U	9.18e-04	pCi/g		0.025	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Sn-126 Rel.% Count Error (GEA)	SOLID	LA-508-462		52.7	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	15832-50-5	Sn-126 by GEA	SOLID	LA-508-462	U	0.0720	pCi/g		0.072	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Th-234 Rel.% Count Error (GEA)	SOLID	LA-508-462		42.4	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	15065-10-8	Th-234 by GEA	SOLID	LA-508-462	U	0.744	pCi/g		1.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Tl-208 Rel.% Count Error (GEA)	SOLID	LA-508-462		21.8	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	14913-50-9	Tl-208 by GEA	SOLID	LA-508-462		0.138	pCi/g		0.020	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	U-235 Rel.% Count Error (GEA)	SOLID	LA-508-462		47.6	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	15117-96-1	U-235 by GEA	SOLID	LA-508-462	U	0.0617	pCi/g		0.13	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Zn-65 Rel.% Count Error (GEA)	SOLID	LA-508-462		163	%		0.0	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	13982-39-3	Zn-65 by GEA	SOLID	LA-508-462	U	0.0219	pCi/g		0.054	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7440-69-9	Bismuth by ICP	SOLID	LA-505-411	U	< 4.58	ug/g	45.77	4.6	07/17/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7440-42-8	Boron by ICP	SOLID	LA-505-411	U	< 4.669	ug/g	45.77	4.669	07/17/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7429-90-5	Aluminum by ICP-MS	SOLID	LA-505-412	E	8.43e+03	ug/g	5.00	55	07/21/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7440-36-0	Antimony by ICP-MS	SOLID	LA-505-412	EU	< 2.50	ug/g	5.00	2.5	07/21/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7440-38-2	Arsenic by ICP-MS	SOLID	LA-505-412		1.92	ug/g	5.00	1.5	07/21/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7440-39-3	Barium by ICP-MS	SOLID	LA-505-412	E	60.8	ug/g	5.00	1.0	07/21/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7440-41-7	Beryllium by ICP-MS	SOLID	LA-505-412	U	< 1.50	ug/g	5.00	1.5	07/21/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7440-43-9	Cadmium by ICP-MS	SOLID	LA-505-412	U	< 0.500	ug/g	5.00	0.50	07/21/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7440-47-3	Chromium by ICP-MS	SOLID	LA-505-412	E	72.5	ug/g	5.00	1.5	07/21/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7440-48-4	Cobalt by ICP-MS	SOLID	LA-505-412		6.07	ug/g	5.00	1.0	07/21/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7440-50-8	Copper by ICP-MS	SOLID	LA-505-412		12.0	ug/g	5.00	2.5	07/21/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7439-92-1	Lead by ICP-MS	SOLID	LA-505-412	U	< 6.00	ug/g	5.00	6.0	07/21/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7439-96-5	Manganese by ICP-MS	SOLID	LA-505-412	E	236	ug/g	5.00	1.5	07/21/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7439-97-6	Mercury by ICP-MS	SOLID	LA-505-412	U	< 0.500	ug/g	5.00	0.50	07/21/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7439-98-7	Molybdenum by ICP-MS	SOLID	LA-505-412		2.22	ug/g	5.00	1.5	07/21/03	07/01/03	07/01/03

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20030863

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000601	B17486	TRENT	7440-02-0	Nickel by ICP-MS	SOLID	LA-505-412		50.9	ug/g	5.00	2.5	07/21/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7782-49-2	Selenium by ICP-MS	SOLID	LA-505-412	U	< 1.50	ug/g	5.00	1.5	07/21/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7440-22-4	Silver by ICP-MS	SOLID	LA-505-412	E	3.54	ug/g	5.00	1.0	07/21/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7440-28-0	Thallium by ICP-MS	SOLID	LA-505-412		0.815	ug/g	5.00	0.50	07/21/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7440-29-1	Thorium by ICP-MS	SOLID	LA-505-412		2.85	ug/g	5.00	1.0	07/21/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7440-61-1	Uranium by ICP-MS	SOLID	LA-505-412	U	< 0.500	ug/g	5.00	0.50	07/21/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7440-62-2	Vanadium by ICP-MS	SOLID	LA-505-412	E	37.7	ug/g	5.00	2.0	07/21/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7440-66-6	Zinc by ICP-MS	SOLID	LA-505-412	E	30.7	ug/g	5.00	20	07/21/03	07/01/03	07/01/03
W030000601	B17486	TRENT	THPGASOLINE	Total Pet. Hydrocarbons Gas	SOLID	NWTPH	U	< 100	ug/kg		1.0e+02	07/14/03	07/01/03	07/01/03
W030000601	B17486	TRENT	12674-11-2	Aroclor-1016	SOLID	LA-523-427	U	< 50.0	ug/kg	1.00	50	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	11104-28-2	Aroclor-1221	SOLID	LA-523-427	U	< 100	ug/kg	1.00	1.0e+02	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	11141-16-5	Aroclor-1232	SOLID	LA-523-427	U	< 50.0	ug/kg	1.00	50	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	53469-21-9	Aroclor-1242	SOLID	LA-523-427	U	< 50.0	ug/kg	1.00	50	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	12672-29-6	Aroclor-1248	SOLID	LA-523-427	U	< 50.0	ug/kg	1.00	50	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	11097-69-1	Aroclor-1254	SOLID	LA-523-427	U	< 50.0	ug/kg	1.00	50	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	11096-82-5	Aroclor-1260	SOLID	LA-523-427	U	< 50.0	ug/kg	1.00	50	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	37324-23-5	Aroclor-1262	SOLID	LA-523-427	U	< 50.0	ug/kg	1.00	50	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	11100-14-4	Aroclor-1268	SOLID	LA-523-427	U	< 50.0	ug/kg	1.00	50	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	13981-16-3	Pu-238 by AEA	SOLID	LA-508-471	U	1.60e-03	pCi/g		0.019	07/24/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Pu-238 by AEA Total Cntg Error	SOLID	LA-508-471		100	%		0.0	07/24/03	07/01/03	07/01/03
W030000601	B17486	TRENT	E,T,C	Pu-239/240 AEA Total Cntg Err	SOLID	LA-508-471		30.0	%		0.0	07/24/03	07/01/03	07/01/03
W030000601	B17486	TRENT	PU-239/240	Pu-239/240 by AEA	SOLID	LA-508-471		0.140	pCi/g		4.2e-03	07/24/03	07/01/03	07/01/03
W030000601	B17486	TRENT	120-82-1	1,2,4-Trichlorobenzene	SOLID	LA-523-456	U	< 300	ug/kg	1.00	3.0e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	95-50-1	1,2-Dichlorobenzene (SV)	SOLID	LA-523-456	U	< 370	ug/kg	1.00	3.7e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	541-73-1	1,3-Dichlorobenzene	SOLID	LA-523-456	U	< 330	ug/kg	1.00	3.3e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	106-46-7	1,4-Dichlorobenzene (SV)	SOLID	LA-523-456	U	< 320	ug/kg	1.00	3.2e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	95-95-4	2,4,5-Trichlorophenol	SOLID	LA-523-456	U	< 75.0	ug/kg	1.00	75	07/10/03	07/01/03	07/01/03

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20030863

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000601	B17486	TRENT	88-06-2	2,4,6-Trichlorophenol	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	120-83-2	2,4-Dichlorophenol	SOLID	LA-523-456	U	< 82.0	ug/kg	1.00	82	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	105-67-9	2,4-Dimethylphenol	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	51-28-5	2,4-Dinitrophenol	SOLID	LA-523-456	U	< 690	ug/kg	1.00	6.9e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	121-14-2	2,4-Dinitrotoluene	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	606-20-2	2,6-Dinitrotoluene	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	111-76-2	2-Butoxyethanol	SOLID	LA-523-456	U	< 100	ug/kg	1.00	1.0e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	91-58-7	2-Chloronaphthalene	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	95-57-8	2-Chlorophenol	SOLID	LA-523-456	U	< 150	ug/kg	1.00	1.5e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	91-57-6	2-Methylnaphthalene	SOLID	LA-523-456	U	< 190	ug/kg	1.00	1.9e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	95-48-7	2-Methylphenol	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	88-74-4	2-Nitroaniline	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	88-75-5	2-Nitrophenol	SOLID	LA-523-456	U	< 180	ug/kg	1.00	1.8e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	65794-96-9	3 & 4 Methylphenol Total	SOLID	LA-523-456	U	< 120	ug/kg	1.00	1.2e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	91-94-1	3,3'-Dichlorobenzidine	SOLID	LA-523-456	U	< 82.0	ug/kg	1.00	82	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	99-09-2	3-Nitroaniline	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	534-52-1	4,6-Dinitro-2-methylphenol	SOLID	LA-523-456	U	< 690	ug/kg	1.00	6.9e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	101-55-3	4-Bromophenyl-phenylether	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	59-50-7	4-Chloro-3-methylphenol	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	106-47-8	4-Chloroaniline	SOLID	LA-523-456	U	< 96.0	ug/kg	1.00	96	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	7005-72-3	4-Chlorophenyl-phenylether	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	100-01-6	4-Nitroaniline	SOLID	LA-523-456	U	< 250	ug/kg	1.00	2.5e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	100-02-7	4-Nitrophenol	SOLID	LA-523-456	U	< 670	ug/kg	1.00	6.7e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	83-32-9	Acenaphthene	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	208-96-8	Acenaphthylene	SOLID	LA-523-456	U	< 82.0	ug/kg	1.00	82	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	120-12-7	Anthracene	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	56-55-3	Benzo(a)anthracene	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03

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Report W004/ver. 5.2
Ground Water Protection Program

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20030863

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000601	B17486	TRENT	50-32-8	Benzo(a)pyrene	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	205-99-2	Benzo(b)fluoranthene	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	191-24-2	Benzo(g,h,i)perylene	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	207-08-9	Benzo(k)fluoranthene	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	100-51-6	Benzyl alcohol	SOLID	LA-523-456	U	< 80.0	ug/kg	1.00	80	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	117-81-7	Bis (2-Ethylhexyl) phthalate	SOLID	LA-523-456	U	< 580	ug/kg	1.00	5.8e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	108-60-1	Bis(2-Chloro-1-methylene)	SOLID	LA-523-456	U	< 260	ug/kg	1.00	2.6e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	85-68-7	Butylbenzylphthalate	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	86-74-8	Carbazole	SOLID	LA-523-456	U	< 82.0	ug/kg	1.00	82	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	218-01-9	Chrysene	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	84-74-2	Di-n-butylphthalate	SOLID	LA-523-456	U	< 89.0	ug/kg	1.00	89	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	117-84-0	Di-n-octylphthalate	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	53-70-3	Dibenz(a,h)anthracene	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	132-64-9	Dibenzofuran	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	84-66-2	Diethylphthalate	SOLID	LA-523-456	J	360	ug/kg	1.00	1.9e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	131-11-3	Dimethylphthalate	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	206-44-0	Fluoranthene	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	86-73-7	Fluorene	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	118-74-1	Hexachlorobenzene	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	87-68-3	Hexachlorobutadiene	SOLID	LA-523-456	U	< 380	ug/kg	1.00	3.8e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	77-47-4	Hexachlorocyclopentadiene	SOLID	LA-523-456	U	< 320	ug/kg	1.00	3.2e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	67-72-1	Hexachloroethane	SOLID	LA-523-456	U	< 480	ug/kg	1.00	4.8e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	193-39-5	Indeno(1,2,3-cd)pyrene	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	78-59-1	Isophorone	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	621-64-7	N-Nitroso-di-n-propylamine	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	86-30-6	N-Nitrosodiphenylamine	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486	TRENT	91-20-3	Naphthalene	SOLID	LA-523-456	U	< 290	ug/kg	1.00	2.9e+02	07/10/03	07/01/03	07/01/03

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20030863

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000601	B17486 TRENT	98-95-3	Nitrobenzene	SOLID	LA-523-456	U	< 270	ug/kg	1.00	2.7e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486 TRENT	87-86-5	Pentachlorophenol	SOLID	LA-523-456	U	< 310	ug/kg	1.00	3.1e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486 TRENT	85-01-8	Phenanthrene	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486 TRENT	108-95-2	Phenol	SOLID	LA-523-456	U	< 100	ug/kg	1.00	1.0e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486 TRENT	129-00-0	Pyrene	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486 TRENT	126-73-8	Tri-n-butylphosphate	SOLID	LA-523-456	U	< 69.0	ug/kg	1.00	69	07/10/03	07/01/03	07/01/03
W030000601	B17486 TRENT	111-44-4	bis(-2-Chloroethyl)Eth	SOLID	LA-523-456	U	< 250	ug/kg	1.00	2.5e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486 TRENT	111-91-1	bis(2-Chloroethoxy)methane	SOLID	LA-523-456	U	< 120	ug/kg	1.00	1.2e+02	07/10/03	07/01/03	07/01/03
W030000601	B17486 TRENT	13966-29-5	U-234 by AEA	SOLID	LA-508-471		0.130	pCi/g		4.8e-03	07/24/03	07/01/03	07/01/03
W030000601	B17486 TRENT	E,T,C	U-234 by AEA Total Cntg Error	SOLID	LA-508-471		35.0	%		0.0	07/24/03	07/01/03	07/01/03
W030000601	B17486 TRENT	15117-96-1	U-235 by AEA	SOLID	LA-508-471	U	3.80e-03	pCi/g		0.014	07/24/03	07/01/03	07/01/03
W030000601	B17486 TRENT	E,T,C	U-235 by AEA Total Cntg Error	SOLID	LA-508-471		200	%		0.0	07/24/03	07/01/03	07/01/03
W030000601	B17486 TRENT	24678-82-8	U-238 by AEA	SOLID	LA-508-471		0.100	pCi/g		4.8e-03	07/24/03	07/01/03	07/01/03
W030000601	B17486 TRENT	E,T,C	U-238 by AEA Total Cntg Error	SOLID	LA-508-471		36.0	%		0.10	07/24/03	07/01/03	07/01/03
W030000601	B17486 TRENT	71-55-6	1,1,1-Trichloroethane	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486 TRENT	79-34-5	1,1,2,2-Tetrachloroethane	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486 TRENT	79-00-5	1,1,2-Trichloroethane	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486 TRENT	75-34-3	1,1-Dichloroethane	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486 TRENT	75-35-4	1,1-Dichloroethene	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486 TRENT	107-06-2	1,2-Dichloroethane	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486 TRENT	540-59-0	1,2-Dichloroethene (cis & tran	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486 TRENT	78-87-5	1,2-Dichloropropane	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486 TRENT	78-93-3	2-Butanone	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486 TRENT	591-78-6	2-Hexanone	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486 TRENT	107-87-9	2-Pentanone	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486 TRENT	108-10-1	4-Methyl-2-pentanone	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486 TRENT	67-64-1	Acetone	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03

MDL=Minimum Detection Limit
RQ=Result Qualifier

D - Analyte was identified at a secondary dilution factor
J - Estimated Value
E - Analyte is an estimate, has potentially larger errors
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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20030863

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000601	B17486	TRENT	71-43-2	Benzene	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	75-27-4	Bromodichloromethane	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	75-25-2	Bromoform	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	74-83-9	Bromomethane	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	75-15-0	Carbon Disulfide	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	56-23-5	Carbon Tetrachloride	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	108-90-7	Chlorobenzene	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	75-00-3	Chloroethane	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	67-66-3	Chloroform	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	74-87-3	Chloromethane	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	124-48-1	Dibromochloromethane	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	100-41-4	Ethylbenzene	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	75-09-2	Methylene Chloride	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	100-42-5	Styrene	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	127-18-4	Tetrachloroethene	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	108-88-3	Toluene	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	1330-20-7	Total Xylenes	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	79-01-6	Trichloroethene	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	75-01-4	Vinyl Chloride	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	10061-01-5	cis-1,3-Dichloropropene	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	104-51-8	n-Butylbenzene	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	10061-02-6	trans-1,3-Dichloropropene	SOLID	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	07/15/03	07/01/03	07/01/03
W030000601	B17486	TRENT	TPHKEROSENE	Kerosene	SOLID	NWTPH	U	< 3.90e+03	ug/kg	1.00	3.9e+03	07/24/03	07/01/03	07/01/03
W030000601	B17486	TRENT	THPDIESEL	Total Pet. Hydrocarbons Diesel	SOLID	NWTPH	U	< 3.90e+03	ug/kg	1.00	3.9e+03	07/24/03	07/01/03	07/01/03
W030000601	B17486	TRENT	84-15-1	ortho-Terphenyl	SOLID	NWTPH		2.30e+04	ug/kg	1.00	5.1e+02	07/24/03	07/01/03	07/01/03

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U - Analyzed for but not detected above limiting criteria.

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

WSCF
ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F03-006

Group #: WSCF20030863

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		Comment for sample W030000600-601 fro GEA Test: The Sn-126 activity could not be determined by GEA due to spectral interferences by the daughter nuclides produced by the decay of natural Thorium and Uranium.lmh SVOA: The SPK-RPD for 2-Fluorophenol, is out high by 1%. Sample results are reported on a dry weight basis. A J-flag is used for target compounds which are reported above the detection limit but below the lowest calibration standard. den Cyanide: MS at 40 ppb, recovered 39.2 ppb (98.1%); MSD at 40 ppb, recovered 38.2 ppb (95.4%) Note: MS and MSD calculated as extract concentrations. Soil detection limit is 0.2 ug/g for 1 gram soil sample. ICP-AES: Bismuth failed LCS, however, since this LCS is a spiked soil, the MS and MSD are more representative of method performance for this sample. -wwb The 77% recovery for diesel in the LCS is slightly below the 80% recovery lower control limit. Slight boil over during concentration accounts for the slight loss of extract and low recovery. cgc ICP-MS:Aluminium (Al) insufficient spiking level for concent ration in sample. "E" qualifiers given to the following ele ments as recoveries were outside acceptance limits on the matrix spike. The matrix spike dup were all within limits. Antimony, Barium, Manganese, Silver, Vanadium, Zinc. LCS rec

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
ANALYTICAL COMMENT REPORT

2 - 19

Attention: Steve Trent
Project Number F03-006

Group #: WSCF20030863

Sample #	Client ID	Lab Area	Test	Comment
				overy for Chromium was low and received an "E" qualifier.ldl

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 F03-006 :200-PW-2/PW-4

Group #: WSCF20030863

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W030000600	B173T7	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				10.417	%
W030000600	B173T7	TRENT	Gamma Energy Analysis-grd H2O	K-40				15.6	pCi/g
W030000600	B173T7	TRENT	SW-846 8270B Semi-Vols	SMP 12.936 Benzenesulfonamide, N-	3622-84-2	12.9365	BJ	1200	ug/kg
W030000600	B173T7	TRENT	SW-846 8270B Semi-Vols	SMP 11.822 Unknown	Unknown	11.82291	J	150	ug/kg
W030000601	B17486	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				10.147	%
W030000601	B17486	TRENT	Gamma Energy Analysis-grd H2O	K-40				14.3	pCi/g
W030000601	B17486	TRENT	SW-846 8270B Semi-Vols	SMP 5.387 Unknown	Unknown	5.387983	J	160	ug/kg
W030000601	B17486	TRENT	SW-846 8270B Semi-Vols	SMP 12.927 Benzenesulfonamide, N-	3622-84-2	12.9276	BJ	560	ug/kg

RQ=Result Qualifier B - The analyte < the RDL but > = the IDL/MDL (inorganic) J - Estimated Value

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Ground Water Protection Program

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-503-401	LA-503-401: ANALYSIS OF CATIONS BY ION CHROMATOGRAPHY	
	EPA-600/4-86-024 300.7	Dissolved Sodium, Ammonium, Potassium, and Calcium in Wet Deposition by Chemical
LA-505-411	LA-505-411: ELEMENTAL ANALYSIS BY INDUCTIVELY COUPLED PLASMA ATOMIC EMISSION SPE	
	EPA SW-846 6010B	INDUCTIVELY COUPLED PLASMA-ATOMIC EMISSION SPECTROMETRY
LA-505-412	LA-505-412: DETERMINATION OF TRACE ELEMENTS IN WATERS AND WASTES BY INDUCTIVELY	
	EPA-600/R-94-111 200.8	DETERMINATION OF TRACE ELEMENTS IN WATERS AND WASTES BY INDUCTIVELY COUPLED PLAS
LA-508-462	Gamma Energy Analysis -- the Genie System -- WSCF	
	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-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)

Note: A complete list of WSCF analytical procedures and referenced regulatory or industry methods is available online at http://apweb02/asponlinedocs/wscf/sample%20mgmt/ProcedureMethodCrossReference.pdf. This document includes on-line links to full-text versions of the procedures and methods, where available.

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 3665A	SULFURIC ACID/PERMANGANATE CLEANUP
	EPA SW-846 8000B	DETERMINATIVE CHROMATOGRAPHIC SEPARATIONS
	EPA SW-846 8082	POLYCHLORINATED BIPHENYLS (PCBs) BY GAS CHROMATOGRAPHY
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
Organics	Organics - Alcohols, Glycols	
	EPA SW-846 8015B	Nonhalogenated Organics Using GC/FID

Note: A complete list of WSCF analytical procedures and referenced regulatory or industry methods is available online at http://apweb02/asponlinedocs/wscf/sample%20mgmt/ProcedureMethodCrossReference.pdf. This document includes on-line links to full-text versions of the procedures and methods, where available.

w13qlog v1 05-aug-2003 07:32:16

W13q Worklist/Batch/QC Report for Group# WSCF20030863

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
				SAMPLE	W030000600	Percent Solids
				SAMPLE	W030000601	Percent Solids
				SAMPLE	W030000600	pH Soil and Waste Measurement
				SAMPLE	W030000601	pH Soil and Waste Measurement
19758	2	20146	22906	BLANK		Anions by Ion Chromatography
19758	9	20146	22906	BLANK		Anions by Ion Chromatography
19758	3	20146	22906	LCS		Anions by Ion Chromatography
19758	5	20146	22906	DUP	W030000600	Anions by Ion Chromatography
19758	6	20146	22906	MS	W030000600	Anions by Ion Chromatography
19758	7	20146	22906	MSD	W030000600	Anions by Ion Chromatography
19758	4	20146	22906	SAMPLE	W030000600	Anions by Ion Chromatography
19758	8	20146	22906	SAMPLE	W030000601	Anions by Ion Chromatography
19761	3	20148	22908	LCS		Ammonia (N) by IC
19761	5	20148	22908	DUP	W030000600	Ammonia (N) by IC
19761	6	20148	22908	MS	W030000600	Ammonia (N) by IC
19761	7	20148	22908	MSD	W030000600	Ammonia (N) by IC
19761	4	20148	22908	SAMPLE	W030000600	Ammonia (N) by IC
19761	8	20148	22908	SAMPLE	W030000601	Ammonia (N) by IC
19740	1	20128	22949	SAMPLE	W030000600	Gamma Energy Analysis-grd H2O
19740	2	20128	22949	SAMPLE	W030000601	Gamma Energy Analysis-grd H2O
			22965	BLANK		SW-846 8270B Semi-Vols
			22965	LCS		SW-846 8270B Semi-Vols
			22965	SAMPLE	W030000600	SW-846 8270B Semi-Vols
			22965	SURR	W030000600	SW-846 8270B Semi-Vols
			22965	MS	W030000601	SW-846 8270B Semi-Vols
			22965	MSD	W030000601	SW-846 8270B Semi-Vols
			22965	SAMPLE	W030000601	SW-846 8270B Semi-Vols
			22965	SPK-RPD	W030000601	SW-846 8270B Semi-Vols
			22965	SURR	W030000601	SW-846 8270B Semi-Vols
			22968	BLANK		Cyanide by Midi/Spectrophotom
			22968	BLNK-PREP		Cyanide by Midi/Spectrophotom
			22968	LCS		Cyanide by Midi/Spectrophotom
			22968	LCS-2		Cyanide by Midi/Spectrophotom
			22968	DUP	W030000600	Cyanide by Midi/Spectrophotom
			22968	MS	W030000600	Cyanide by Midi/Spectrophotom
			22968	MSD	W030000600	Cyanide by Midi/Spectrophotom
			22968	SAMPLE	W030000600	Cyanide by Midi/Spectrophotom
			22968	SPK-RPD	W030000600	Cyanide by Midi/Spectrophotom
			22968	SAMPLE	W030000601	Cyanide by Midi/Spectrophotom
19844	1	20232	23012	BLANK		ICP Metals Analysis, Grd H20 P
19844	2	20232	23012	LCS		ICP Metals Analysis, Grd H20 P
19844	4	20232	23012	MS	W030000600	ICP Metals Analysis, Grd H20 P
19844	5	20232	23012	MSD	W030000600	ICP Metals Analysis, Grd H20 P
19844	3	20232	23012	SAMPLE	W030000600	ICP Metals Analysis, Grd H20 P
19844	0	20232	23012	SPK-RPD	W030000600	ICP Metals Analysis, Grd H20 P
19844	6	20232	23012	SAMPLE	W030000601	ICP Metals Analysis, Grd H20 P
19857	1	20245	23018	BLANK		ICP-2008 MS All possible metal

19857	2	20245	23018	LCS		ICP-2008 MS All possible metal
19857	4	20245	23018	MS	W030000600	ICP-2008 MS All possible metal
19857	5	20245	23018	MSD	W030000600	ICP-2008 MS All possible metal
19857	3	20245	23018	SAMPLE	W030000600	ICP-2008 MS All possible metal
19857	6	20245	23018	SAMPLE	W030000601	ICP-2008 MS All possible metal
			23032	BLANK		PCBs complete list
			23032	LCS		PCBs complete list
			23032	SAMPLE	W030000600	PCBs complete list
			23032	SURR	W030000600	PCBs complete list
			23032	MS	W030000601	PCBs complete list
			23032	MSD	W030000601	PCBs complete list
			23032	SAMPLE	W030000601	PCBs complete list
			23032	SPK-RPD	W030000601	PCBs complete list
			23032	SURR	W030000601	PCBs complete list
			23065	BLANK		WTPH-D TPH Diesel Range (Wa)
			23065	LCS		WTPH-D TPH Diesel Range (Wa)
			23065	MS	W030000600	WTPH-D TPH Diesel Range (Wa)
			23065	MSD	W030000600	WTPH-D TPH Diesel Range (Wa)
			23065	SAMPLE	W030000600	WTPH-D TPH Diesel Range (Wa)
			23065	SPK-RPD	W030000600	WTPH-D TPH Diesel Range (Wa)
			23065	SURR	W030000600	WTPH-D TPH Diesel Range (Wa)
			23065	SAMPLE	W030000601	WTPH-D TPH Diesel Range (Wa)
			23065	SURR	W030000601	WTPH-D TPH Diesel Range (Wa)
19893	1	20280	23086	BLANK		Uranium Isotopics by AEA
19893	2	20280	23086	LCS		Uranium Isotopics by AEA
19893	3	20280	23086	DUP	W030000600	Uranium Isotopics by AEA
19893	4	20280	23086	SAMPLE	W030000600	Uranium Isotopics by AEA
19893	5	20280	23086	SAMPLE	W030000601	Uranium Isotopics by AEA
19891	1	20278	23087	BLANK		Plutonium Isotopics by AEA
19891	2	20278	23087	LCS		Plutonium Isotopics by AEA
19891	3	20278	23087	DUP	W030000600	Plutonium Isotopics by AEA
19891	4	20278	23087	SAMPLE	W030000600	Plutonium Isotopics by AEA
19891	5	20278	23087	SAMPLE	W030000601	Plutonium Isotopics by AEA
19892	1	20279	23103	BLANK		Americium by AEA
19892	2	20279	23103	LCS		Americium by AEA
19892	3	20279	23103	DUP	W030000600	Americium by AEA
19892	4	20279	23103	SAMPLE	W030000600	Americium by AEA
19892	5	20279	23103	SAMPLE	W030000601	Americium by AEA
			23105	BLANK		VOA Ground Water Protection
			23105	LCS		VOA Ground Water Protection
			23105	MS	W030000600	VOA Ground Water Protection
			23105	MSD	W030000600	VOA Ground Water Protection
			23105	SAMPLE	W030000600	VOA Ground Water Protection
			23105	SPK-RPD	W030000600	VOA Ground Water Protection
			23105	SURR	W030000600	VOA Ground Water Protection
			23105	SAMPLE	W030000601	VOA Ground Water Protection
			23105	SURR	W030000601	VOA Ground Water Protection
19947	1	20334	23108	BLANK		NWTPH-GX TPH Gasoline Range
19947	2	20334	23108	LCS		NWTPH-GX TPH Gasoline Range
19947	4	20334	23108	DUP	W030000600	NWTPH-GX TPH Gasoline Range
19947	5	20334	23108	MS	W030000600	NWTPH-GX TPH Gasoline Range
19947	6	20334	23108	MSD	W030000600	NWTPH-GX TPH Gasoline Range
19947	3	20334	23108	SAMPLE	W030000600	NWTPH-GX TPH Gasoline Range

19947	6	20334	23108	SPK-RPD	W030000600	NWTPH-GX TPH Gasoline Range
19947	7	20334	23108	SAMPLE	W030000601	NWTPH-GX TPH Gasoline Range
19955	1	20342	23120	BLANK		Alcohols, Glycols - 8015
19955	2	20342	23120	LCS		Alcohols, Glycols - 8015
19955	3	20342	23120	LCS-DUP		Alcohols, Glycols - 8015
19955	5	20342	23120	DUP	W030000600	Alcohols, Glycols - 8015
19955	6	20342	23120	MS	W030000600	Alcohols, Glycols - 8015
19955	7	20342	23120	MSD	W030000600	Alcohols, Glycols - 8015
19955	4	20342	23120	SAMPLE	W030000600	Alcohols, Glycols - 8015
19955	7	20342	23120	SPK-RPD	W030000600	Alcohols, Glycols - 8015
19955	8	20342	23120	SAMPLE	W030000601	Alcohols, Glycols - 8015

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030863
Matrix: SOLID
Test: Anions by Ion Chromatography

SAF Number: F03-006
Sample Date: 07/01/03
Receive Date: 07/01/03

Lab ID: W030000600

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
DUP	Bromide (Br) by IC	24959-67-9	n/a	RPD	07/03/03	0.000	20.000
DUP	Chloride (Cl) by IC	16887-00-6	n/a	RPD	07/03/03	0.000	20.000
DUP	Fluoride (F) by IC	16984-48-8	3.254	RPD	07/03/03	0.000	20.000
DUP	Nitrite (N) by IC	NO2-N	n/a	RPD	07/03/03	0.000	20.000
DUP	Nitrate (N) by IC	NO3-N	2.189	RPD	07/03/03	0.000	20.000
DUP	Phosphate (P) by IC	14265-44-2	n/a	RPD	07/03/03	0.000	20.000
DUP	Sulfate (SO4) by IC	14808-79-8	7.950	RPD	07/03/03	0.000	20.000
MS	Bromide (Br) by IC	24959-67-9	89.950	% Recov	07/03/03	75.000	125.000
MS	Chloride (Cl) by IC	16887-00-6	88.687	% Recov	07/03/03	75.000	125.000
MS	Fluoride (F) by IC	16984-48-8	95.297	% Recov	07/03/03	75.000	125.000
MS	Nitrite (N) by IC	NO2-N	83.730	% Recov	07/03/03	75.000	125.000
MS	Nitrate (N) by IC	NO3-N	89.013	% Recov	07/03/03	75.000	125.000
MS	Phosphate (P) by IC	14265-44-2	83.107	% Recov	07/03/03	75.000	125.000
MS	Sulfate (SO4) by IC	14808-79-8	88.832	% Recov	07/03/03	75.000	125.000
MSD	Bromide (Br) by IC	24959-67-9	89.950	% Recov	07/03/03	75.000	125.000
MSD	Chloride (Cl) by IC	16887-00-6	88.283	% Recov	07/03/03	75.000	125.000
MSD	Fluoride (F) by IC	16984-48-8	95.092	% Recov	07/03/03	75.000	125.000
MSD	Nitrite (N) by IC	NO2-N	80.952	% Recov	07/03/03	75.000	125.000
MSD	Nitrate (N) by IC	NO3-N	89.013	% Recov	07/03/03	75.000	125.000
MSD	Phosphate (P) by IC	14265-44-2	84.150	% Recov	07/03/03	75.000	125.000
MSD	Sulfate (SO4) by IC	14808-79-8	88.832	% Recov	07/03/03	75.000	125.000

BATCH QC

BLANK	Bromide (Br) by IC	24959-67-9	<4.50e-2	mg/L	07/03/03	0.000	300.000
BLANK	Bromide (Br) by IC	24959-67-9	<4.50e-2	mg/L	07/03/03	0.000	300.000
BLANK	Chloride (Cl) by IC	16887-00-6	<1.40e-2	mg/L	07/03/03	0.000	300.000
BLANK	Chloride (Cl) by IC	16887-00-6	<1.40e-2	mg/L	07/03/03	0.000	300.000
BLANK	Fluoride (F) by IC	16984-48-8	<7.00e-3	mg/L	07/03/03	0.000	300.000
BLANK	Fluoride (F) by IC	16984-48-8	<7.00e-3	mg/L	07/03/03	0.000	300.000
BLANK	Nitrite (N) by IC	NO2-N	<9.00e-3	mg/L	07/03/03	0.000	300.000
BLANK	Nitrite (N) by IC	NO2-N	<9.00e-3	mg/L	07/03/03	0.000	300.000
BLANK	Nitrate (N) by IC	NO3-N	<5.00e-3	mg/L	07/03/03	0.000	300.000
BLANK	Nitrate (N) by IC	NO3-N	<5.00e-3	mg/L	07/03/03	0.000	300.000
BLANK	Phosphate (P) by IC	14265-44-2	<1.30e-2	mg/L	07/03/03	0.000	300.000
BLANK	Phosphate (P) by IC	14265-44-2	<1.30e-2	mg/L	07/03/03	0.000	300.000
BLANK	Sulfate (SO4) by IC	14808-79-8	<2.40e-2	mg/L	07/03/03	0.000	300.000
BLANK	Sulfate (SO4) by IC	14808-79-8	<2.40e-2	mg/L	07/03/03	0.000	300.000
LCS	Bromide (Br) by IC	24959-67-9	100.000	% Recov	07/03/03	80.000	120.000
LCS	Chloride (Cl) by IC	16887-00-6	100.000	% Recov	07/03/03	80.000	120.000
LCS	Fluoride (F) by IC	16984-48-8	109.422	% Recov	07/03/03	80.000	120.000
LCS	Nitrite (N) by IC	NO2-N	92.255	% Recov	07/03/03	80.000	120.000
LCS	Nitrate (N) by IC	NO3-N	99.112	% Recov	07/03/03	80.000	120.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030863
Matrix: SOLID
Test: Anions by Ion Chromatography

SAF Number: F03-006
Sample Date:
Receive Date:

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
LCS	Phosphate (P) by IC	14265-44-2	100.103	% Recov	07/03/03	80.000	120.000
LCS	Sulfate (SO4) by IC	14808-79-8	101.003	% Recov	07/03/03	80.000	120.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030863
Matrix: SOLID
Test: Ammonia (N) by IC

SAF Number: F03-006
Sample Date: 07/01/03
Receive Date: 07/01/03

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
Lab ID: W030000600							
BATCH QC ASSOCIATED WITH SAMPLE							
DUP	Ammonia (N) by IC	7664-41-7	n/a	RPD	07/02/03	0.000	20.000
MS	Ammonia (N) by IC	7664-41-7	89.697	% Recov	07/02/03	75.000	125.000
MSD	Ammonia (N) by IC	7664-41-7	87.879	% Recov	07/02/03	75.000	125.000
BATCH QC							
LCS	Ammonia (N) by IC	7664-41-7	99.759	% Recov	07/02/03	80.000	120.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030863
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

SAF Number: F03-006
Sample Date: 07/01/03
Receive Date: 07/01/03

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
Lab ID: W030000600							
BATCH QC ASSOCIATED WITH SAMPLE							
SURR	2-Fluorophenol Surr	367-12-4	68.800	%Recove	07/10/03	42.000	105.000
SURR	2-Fluorobiphenyl Surr	321-60-8	91.900	%Recove	07/10/03	56.000	122.000
SURR	Nitrobenzene-d5 Surr	4165-60-0	81.500	%Recove	07/10/03	64.000	111.000
SURR	Phenol-d5 Surr	4165-62-2	93.800	%Recove	07/10/03	54.000	120.000
SURR	2,4,6-Tribromophenol Surr	118-79-6	88.200	%Recove	07/10/03	24.000	122.000
SURR	Terphenyl-d14 Surr	98904-43-9	90.400	%Recove	07/10/03	35.000	150.000
Lab ID: W030000601							
BATCH QC ASSOCIATED WITH SAMPLE							
MS	1,2,4-Trichlorobenzene	120-82-1	82.700	% Recov	07/10/03	46.000	107.000
MS	1,4-Dichlorobenzene (SV)	106-46-7	81.200	% Recov	07/10/03	30.000	96.000
MS	2,4-Dinitrotoluene	121-14-2	78.800	% Recov	07/10/03	59.000	106.000
MS	2-Fluorophenol Surr	367-12-4	73.400	%Recove	07/10/03	42.000	105.000
MS	Acenaphthene	83-32-9	86.000	% Recov	07/10/03	61.000	116.000
MS	4-Chloro-3-methylphenol	59-50-7	83.600	% Recov	07/10/03	61.000	106.000
MS	2-Chlorophenol	95-57-8	76.200	% Recov	07/10/03	66.000	106.000
MS	N-Nitroso-di-n-propylamine	621-64-7	98.200	% Recov	07/10/03	71.000	114.000
MS	2-Fluorobiphenyl Surr	321-60-8	83.800	%Recove	07/10/03	56.000	122.000
MS	Phenol	108-95-2	83.400	% Recov	07/10/03	42.000	111.000
MS	Nitrobenzene-d5 Surr	4165-60-0	84.000	%Recove	07/10/03	64.000	111.000
MS	4-Nitrophenol	100-02-7	78.600	% Recov	07/10/03	32.000	118.000
MS	Pentachlorophenol	87-86-5	75.300	% Recov	07/10/03	62.000	114.000
MS	Phenol-d5 Surr	4165-62-2	81.000	%Recove	07/10/03	54.000	120.000
MS	Pyrene	129-00-0	74.800	% Recov	07/10/03	66.000	118.000
MS	2,4,6-Tribromophenol Surr	118-79-6	92.300	%Recove	07/10/03	24.000	122.000
MS	Terphenyl-d14 Surr	98904-43-9	86.000	%Recove	07/10/03	35.000	150.000
MSD	1,2,4-Trichlorobenzene	120-82-1	82.300	% Recov	07/10/03	46.000	107.000
MSD	1,4-Dichlorobenzene (SV)	106-46-7	80.700	% Recov	07/10/03	30.000	96.000
MSD	2,4-Dinitrotoluene	121-14-2	80.200	% Recov	07/10/03	59.000	106.000
MSD	2-Fluorophenol Surr	367-12-4	78.000	%Recove	07/10/03	42.000	105.000
MSD	Acenaphthene	83-32-9	86.600	% Recov	07/10/03	61.000	116.000
MSD	4-Chloro-3-methylphenol	59-50-7	83.800	% Recov	07/10/03	61.000	106.000
MSD	2-Chlorophenol	95-57-8	76.700	% Recov	07/10/03	66.000	106.000
MSD	N-Nitroso-di-n-propylamine	621-64-7	93.800	% Recov	07/10/03	71.000	114.000
MSD	2-Fluorobiphenyl Surr	321-60-8	84.000	%Recove	07/10/03	56.000	122.000
MSD	Phenol	108-95-2	80.400	% Recov	07/10/03	42.000	111.000
MSD	Nitrobenzene-d5 Surr	4165-60-0	84.600	%Recove	07/10/03	64.000	111.000
MSD	4-Nitrophenol	100-02-7	82.300	% Recov	07/10/03	32.000	118.000
MSD	Pentachlorophenol	87-86-5	86.500	% Recov	07/10/03	62.000	114.000
MSD	Phenol-d5 Surr	4165-62-2	80.200	%Recove	07/10/03	54.000	120.000
MSD	Pyrene	129-00-0	73.100	% Recov	07/10/03	66.000	118.000
MSD	2,4,6-Tribromophenol Surr	118-79-6	93.700	%Recove	07/10/03	24.000	122.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030863
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

SAF Number: F03-006
Sample Date: 07/01/03
Receive Date: 07/01/03

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
MSD	Terphenyl-d14 Surr	98904-43-9	85.700	%Recove	07/10/03	35.000	150.000
SPK-RPD	1,2,4-Trichlorobenzene	120-82-1	0.485	RPD	07/10/03	0.000	20.000
SPK-RPD	1,4-Dichlorobenzene (SV)	106-46-7	0.618	RPD	07/10/03	0.000	20.000
SPK-RPD	2,4-Dinitrotoluene	121-14-2	1.761	RPD	07/10/03	0.000	20.000
SPK-RPD	2-Fluorophenol Surr	367-12-4	106.267	%Recove	07/10/03	42.000	105.000
SPK-RPD	Acenaphthene	83-32-9	0.695	RPD	07/10/03	0.000	20.000
SPK-RPD	4-Chloro-3-methylphenol	59-50-7	0.239	RPD	07/10/03	0.000	20.000
SPK-RPD	2-Chlorophenol	95-57-8	0.654	RPD	07/10/03	0.000	20.000
SPK-RPD	N-Nitroso-di-n-propylamine	621-64-7	4.583	RPD	07/10/03	0.000	20.000
SPK-RPD	2-Fluorobiphenyl Surr	321-60-8	100.239	%Recove	07/10/03	56.000	122.000
SPK-RPD	Phenol	108-95-2	3.663	RPD	07/10/03	0.000	20.000
SPK-RPD	Nitrobenzene-d5 Surr	4165-60-0	100.714	%Recove	07/10/03	64.000	111.000
SPK-RPD	4-Nitrophenol	100-02-7	4.599	RPD	07/10/03	0.000	20.000
SPK-RPD	Pentachlorophenol	87-86-5	13.844	RPD	07/10/03	0.000	20.000
SPK-RPD	Phenol-d5 Surr	4165-62-2	99.012	%Recove	07/10/03	54.000	120.000
SPK-RPD	Pyrene	129-00-0	2.299	RPD	07/10/03	0.000	20.000
SPK-RPD	2,4,6-Tribromophenol Surr	118-79-6	101.517	%Recove	07/10/03	24.000	122.000
SPK-RPD	Terphenyl-d14 Surr	98904-43-9	99.651	%Recove	07/10/03	35.000	150.000
SURR	2-Fluorophenol Surr	367-12-4	74.500	%Recove	07/10/03	42.000	105.000
SURR	2-Fluorobiphenyl Surr	321-60-8	81.500	%Recove	07/10/03	56.000	122.000
SURR	Nitrobenzene-d5 Surr	4165-60-0	88.300	%Recove	07/10/03	64.000	111.000
SURR	Phenol-d5 Surr	4165-62-2	85.600	%Recove	07/10/03	54.000	120.000
SURR	2,4,6-Tribromophenol Surr	118-79-6	85.700	%Recove	07/10/03	24.000	122.000
SURR	Terphenyl-d14 Surr	98904-43-9	86.300	%Recove	07/10/03	35.000	150.000

BATCH QC

BLANK	1,2-Dichlorobenzene (SV)	95-50-1	< 360	ug/Kg	07/10/03		
BLANK	1,2,4-Trichlorobenzene	120-82-1	< 290	ug/Kg	07/10/03		
BLANK	1,3-Dichlorobenzene	541-73-1	< 320	ug/Kg	07/10/03		
BLANK	1,4-Dichlorobenzene (SV)	106-46-7	< 310	ug/Kg	07/10/03		
BLANK	2,4-Dichlorophenol	120-83-2	< 80	ug/Kg	07/10/03		
BLANK	2,4-Dinitrotoluene	121-14-2	< 67	ug/Kg	07/10/03		
BLANK	2,4,5-Trichlorophenol	95-95-4	< 73	ug/Kg	07/10/03		
BLANK	2,4,6-Trichlorophenol	88-06-2	< 67	ug/Kg	07/10/03		
BLANK	2,4-Dimethylphenol	105-67-9	< 67	ug/Kg	07/10/03		
BLANK	2,6-Dinitrotoluene	606-20-2	< 67	ug/Kg	07/10/03		
BLANK	2-Chloronaphthalene	91-58-7	< 67	ug/Kg	07/10/03		
BLANK	2-Fluorophenol Surr	367-12-4	68.600	%Recove	07/10/03	42.000	105.000
BLANK	2-Methylnaphthalene	91-57-6	< 180	ug/Kg	07/10/03		
BLANK	2-Methylphenol	95-48-7	< 67	ug/Kg	07/10/03		
BLANK	2-Nitroaniline	88-74-4	< 67	ug/Kg	07/10/03		
BLANK	2-Nitrophenol	88-75-5	< 170	ug/Kg	07/10/03		
BLANK	3 & 4 Methylphenol Total	65794-96-9	< 110	ug/Kg	07/10/03	0.000	300.000
BLANK	3-Nitroaniline	99-09-2	< 67	ug/Kg	07/10/03		
BLANK	4,6-Dinitro-2-methylphenol	534-52-1	< 670	ug/Kg	07/10/03		
BLANK	4-Bromophenyl-phenylether	101-55-3	< 67	ug/Kg	07/10/03		

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030863
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

SAF Number: F03-006
Sample Date:
Receive Date:

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
BLANK	4-Chlorophenyl-phenylether	7005-72-3	< 67	ug/Kg	07/10/03		
BLANK	Acenaphthene	83-32-9	< 67	ug/Kg	07/10/03		
BLANK	Acenaphthylene	208-96-8	< 80	ug/Kg	07/10/03		
BLANK	Anthracene	120-12-7	< 67	ug/Kg	07/10/03		
BLANK	bis(-2-Chloroethyl)Eth	111-44-4	< 250	ug/Kg	07/10/03		
BLANK	Benzo(a)anthracene	56-55-3	< 67	ug/Kg	07/10/03		
BLANK	Benzo(b)fluoranthene	205-99-2	< 67	ug/Kg	07/10/03		
BLANK	Benzo(g,h,i)perylene	191-24-2	< 67	ug/Kg	07/10/03		
BLANK	Benzo(a)pyrene	50-32-8	< 67	ug/Kg	07/10/03		
BLANK	bis(2-Chloroethoxy)methane	111-91-1	< 110	ug/Kg	07/10/03		
BLANK	Bis (2-Ethylhexyl) phthalate	117-81-7	< 560	ug/Kg	07/10/03		
BLANK	Bis(2-Chloro-1-methylene)	108-60-1	< 250	ug/Kg	07/10/03	0.000	10.000
BLANK	Benzo(k)fluoranthene	207-08-9	< 67	ug/Kg	07/10/03		
BLANK	Butylbenzylphthalate	85-68-7	< 67	ug/Kg	07/10/03		
BLANK	Carbazole	86-74-8	< 80	ug/Kg	07/10/03		
BLANK	4-Chloroaniline	106-47-8	< 93	ug/Kg	07/10/03		
BLANK	4-Chloro-3-methylphenol	59-50-7	< 67	ug/Kg	07/10/03		
BLANK	2-Chlorophenol	95-57-8	< 150	ug/Kg	07/10/03		
BLANK	Chrysene	218-01-9	< 67	ug/Kg	07/10/03		
BLANK	3,3'-Dichlorobenzidine	91-94-1	< 80	ug/Kg	07/10/03		
BLANK	Dibenz(a,h)anthracene	53-70-3	< 67	ug/Kg	07/10/03		
BLANK	Dibenzofuran	132-64-9	< 67	ug/Kg	07/10/03		
BLANK	Di-n-butylphthalate	84-74-2	< 87	ug/Kg	07/10/03		
BLANK	Diethylphthalate	84-66-2	< 190	ug/Kg	07/10/03		
BLANK	Dimethylphthalate	131-11-3	< 67	ug/Kg	07/10/03		
BLANK	2,4-Dinitrophenol	51-28-5	< 670	ug/Kg	07/10/03		
BLANK	Di-n-octylphthalate	117-84-0	< 67	ug/Kg	07/10/03		
BLANK	N-Nitroso-di-n-propylamine	621-64-7	< 67	ug/Kg	07/10/03		
BLANK	2-Fluorobiphenyl Surr	321-60-8	87.200	%Recove	07/10/03	56.000	122.000
BLANK	Fluorene	86-73-7	< 67	ug/Kg	07/10/03		
BLANK	Fluoranthene	206-44-0	< 67	ug/Kg	07/10/03		
BLANK	Hexachlorobenzene	118-74-1	< 67	ug/Kg	07/10/03		
BLANK	Hexachlorobutadiene	87-68-3	< 370	ug/Kg	07/10/03		
BLANK	Hexachlorocyclopentadiene	77-47-4	< 310	ug/Kg	07/10/03		
BLANK	Hexachloroethane	67-72-1	< 470	ug/Kg	07/10/03		
BLANK	Indeno(1,2,3-cd)pyrene	193-39-5	< 67	ug/Kg	07/10/03		
BLANK	Isophorone	78-59-1	< 67	ug/Kg	07/10/03		
BLANK	Phenol	108-95-2	< 100	ug/Kg	07/10/03		
BLANK	Naphthalene	91-20-3	< 290	ug/Kg	07/10/03		
BLANK	Nitrobenzene-d5 Surr	4165-60-0	73.900	%Recove	07/10/03	64.000	111.000
BLANK	Nitrobenzene	98-95-3	< 260	ug/Kg	07/10/03		
BLANK	4-Nitrophenol	100-02-7	< 650	ug/Kg	07/10/03		
BLANK	4-Nitroaniline	100-01-6	< 250	ug/Kg	07/10/03		
BLANK	N-Nitrosodiphenylamine	86-30-6	< 67	ug/Kg	07/10/03		
BLANK	Pentachlorophenol	87-86-5	< 300	ug/Kg	07/10/03		
BLANK	Phenanthrene	85-01-8	< 67	ug/Kg	07/10/03		

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030863
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

SAF Number: F03-006
Sample Date:
Receive Date:

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
BLANK	Phenol-d5 Surr	4165-62-2	87.500	%Recove	07/10/03	54.000	120.000
BLANK	Pyrene	129-00-0	< 67	ug/Kg	07/10/03		
BLANK	Tri-n-butylphosphate	126-73-8	< 67	ug/Kg	07/10/03		
BLANK	2,4,6-Tribromophenol Surr	118-79-6	86.200	%Recove	07/10/03	24.000	122.000
BLANK	Terphenyl-d14 Surr	98904-43-9	83.400	%Recove	07/10/03	35.000	150.000
LCS	1,2,4-Trichlorobenzene	120-82-1	83.900	% Recov	07/10/03	46.000	107.000
LCS	1,4-Dichlorobenzene (SV)	106-46-7	81.000	% Recov	07/10/03	42.000	111.000
LCS	2,4-Dinitrotoluene	121-14-2	78.100	% Recov	07/10/03	59.000	106.000
LCS	2-Fluorophenol Surr	367-12-4	75.900	% Recov	07/10/03	50.000	110.000
LCS	Acenaphthene	83-32-9	84.700	% Recov	07/10/03	61.000	116.000
LCS	4-Chloro-3-methylphenol	59-50-7	80.700	% Recov	07/10/03	61.000	106.000
LCS	2-Chlorophenol	95-57-8	76.100	% Recov	07/10/03	66.000	106.000
LCS	N-Nitroso-di-n-propylamine	621-64-7	93.300	% Recov	07/10/03	71.000	114.000
LCS	2-Fluorobiphenyl Surr	321-60-8	82.400	% Recov	07/10/03	58.000	109.000
LCS	Phenol	108-95-2	82.900	% Recov	07/10/03	67.000	105.000
LCS	Nitrobenzene-d5 Surr	4165-60-0	81.200	% Recov	07/10/03	60.000	118.000
LCS	4-Nitrophenol	100-02-7	82.400	% Recov	07/10/03	32.000	118.000
LCS	Pentachlorophenol	87-86-5	91.000	% Recov	07/10/03	62.000	114.000
LCS	Phenol-d5 Surr	4165-62-2	80.300	% Recov	07/10/03	59.000	116.000
LCS	Pyrene	129-00-0	73.600	% Recov	07/10/03	66.000	118.000
LCS	2,4,6-Tribromophenol Surr	118-79-6	89.300	% Recov	07/10/03	60.000	120.000
LCS	Terphenyl-d14 Surr	98904-43-9	86.900	% Recov	07/10/03	60.000	120.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030863
Matrix: SOLID
Test: Cyanide by Midi/Spectrophotom

SAF Number: F03-006
Sample Date: 07/01/03
Receive Date: 07/01/03

Lab ID: W030000600

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
DUP	Cyanide by Midi/Spectrophotom	57-12-5	n/a	RPD	07/09/03	0.000	20.000
MS	Cyanide by Midi/Spectrophotom	57-12-5	98.100	% Recov	07/09/03	75.000	125.000
MSD	Cyanide by Midi/Spectrophotom	57-12-5	95.400	% Recov	07/09/03	75.000	125.000
SPK-RPD	Cyanide by Midi/Spectrophotom	57-12-5	2.791	RPD	07/09/03	0.000	20.000

BATCH QC

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
BLANK	Cyanide by Midi/Spectrophotom	57-12-5	<1	ug/L	07/09/03	-4.000	4.000
BLNK-PREP	Cyanide by Midi/Spectrophotom	57-12-5	<4	ug/L	07/09/03	-4.000	4.000
LCS	Cyanide by Midi/Spectrophotom	57-12-5	96.810	% Recov	07/09/03	85.000	115.000
LCS-2	Cyanide by Midi/Spectrophotom	57-12-5	n/a	% Recov	07/09/03	85.000	115.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030863
Matrix: SOLID
Test: ICP Metals Analysis, Grd H20 P

SAF Number: F03-006
Sample Date: 07/01/03
Receive Date: 07/01/03

Lab ID: W030000600

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
MS	Boron by ICP	7440-42-8	93.266	% Recov	07/17/03	75.000	125.000
MS	Bismuth by ICP	7440-69-9	93.440	% Recov	07/17/03	75.000	125.000
MSD	Boron by ICP	7440-42-8	91.946	% Recov	07/17/03	75.000	125.000
MSD	Bismuth by ICP	7440-69-9	92.260	% Recov	07/17/03	75.000	125.000
SPK-RPD	Boron by ICP	7440-42-8	1.425	RPD	07/17/03	0.000	20.000
SPK-RPD	Bismuth by ICP	7440-69-9	1.271	RPD	07/17/03	0.000	20.000

BATCH QC

BLANK	Boron by ICP	7440-42-8	<0.102	ug/L	07/17/03	-10.000	10.000
BLANK	Bismuth by ICP	7440-69-9	<0.1	ug/L	07/17/03	-1.000	0.068
LCS	Boron by ICP	7440-42-8	111.436	% Recov	07/17/03	80.000	120.000
LCS	Bismuth by ICP	7440-69-9	55.888	% Recov	07/17/03	80.000	120.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030863
Matrix: SOLID
Test: ICP-2008 MS All possible metal

SAF Number: F03-006
Sample Date: 07/01/03
Receive Date: 07/01/03

Lab ID: W030000600
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit	
MS	Silver by ICP-MS	7440-22-4	64.141	% Recov	07/21/03	70.000	130.000	*
MS	Aluminum by ICP-MS	7429-90-5	n/a	% Recov	07/21/03	70.000	130.000	
MS	Arsenic by ICP-MS	7440-38-2	77.778	% Recov	07/21/03	70.000	130.000	
MS	Barium by ICP-MS	7440-39-3	68.182	% Recov	07/21/03	70.000	130.000	*
MS	Beryllium by ICP-MS	7440-41-7	72.727	% Recov	07/21/03	70.000	130.000	
MS	Cadmium by ICP-MS	7440-43-9	75.758	% Recov	07/21/03	70.000	130.000	
MS	Cobalt by ICP-MS	7440-48-4	70.707	% Recov	07/21/03	70.000	130.000	
MS	Chromium by ICP-MS	7440-47-3	70.202	% Recov	07/21/03	70.000	130.000	
MS	Copper by ICP-MS	7440-50-8	70.707	% Recov	07/21/03	70.000	130.000	
MS	Mercury by ICP-MS	7439-97-6	82.424	% Recov	07/21/03	70.000	130.000	
MS	Manganese by ICP-MS	7439-96-5	59.596	% Recov	07/21/03	70.000	130.000	*
MS	Molybdenum by ICP-MS	7439-98-7	71.717	% Recov	07/21/03	70.000	130.000	
MS	Nickel by ICP-MS	7440-02-0	73.737	% Recov	07/21/03	70.000	130.000	
MS	Lead by ICP-MS	7439-92-1	79.798	% Recov	07/21/03	70.000	130.000	
MS	Antimony by ICP-MS	7440-36-0	61.111	% Recov	07/21/03	70.000	130.000	*
MS	Selenium by ICP-MS	7782-49-2	76.263	% Recov	07/21/03	70.000	130.000	
MS	Thorium by ICP-MS	7440-29-1	73.232	% Recov	07/21/03	70.000	130.000	
MS	Thallium by ICP-MS	7440-28-0	77.273	% Recov	07/21/03	70.000	130.000	
MS	Uranium by ICP-MS	7440-61-1	74.242	% Recov	07/21/03	70.000	130.000	
MS	Vanadium by ICP-MS	7440-62-2	69.192	% Recov	07/21/03	70.000	130.000	*
MS	Zinc by ICP-MS	7440-66-6	65.152	% Recov	07/21/03	70.000	130.000	*
MSD	Silver by ICP-MS	7440-22-4	100.000	% Recov	07/21/03	70.000	130.000	
MSD	Aluminum by ICP-MS	7429-90-5	n/a	% Recov	07/21/03	70.000	130.000	
MSD	Arsenic by ICP-MS	7440-38-2	91.398	% Recov	07/21/03	70.000	130.000	
MSD	Barium by ICP-MS	7440-39-3	97.312	% Recov	07/21/03	70.000	130.000	
MSD	Beryllium by ICP-MS	7440-41-7	88.710	% Recov	07/21/03	70.000	130.000	
MSD	Cadmium by ICP-MS	7440-43-9	91.398	% Recov	07/21/03	70.000	130.000	
MSD	Cobalt by ICP-MS	7440-48-4	87.634	% Recov	07/21/03	70.000	130.000	
MSD	Chromium by ICP-MS	7440-47-3	87.634	% Recov	07/21/03	70.000	130.000	
MSD	Copper by ICP-MS	7440-50-8	85.484	% Recov	07/21/03	70.000	130.000	
MSD	Mercury by ICP-MS	7439-97-6	95.279	% Recov	07/21/03	70.000	130.000	
MSD	Manganese by ICP-MS	7439-96-5	93.011	% Recov	07/21/03	70.000	130.000	
MSD	Molybdenum by ICP-MS	7439-98-7	87.097	% Recov	07/21/03	70.000	130.000	
MSD	Nickel by ICP-MS	7440-02-0	89.247	% Recov	07/21/03	70.000	130.000	
MSD	Lead by ICP-MS	7439-92-1	95.161	% Recov	07/21/03	70.000	130.000	
MSD	Antimony by ICP-MS	7440-36-0	72.043	% Recov	07/21/03	70.000	130.000	
MSD	Selenium by ICP-MS	7782-49-2	90.323	% Recov	07/21/03	70.000	130.000	
MSD	Thorium by ICP-MS	7440-29-1	91.935	% Recov	07/21/03	70.000	130.000	
MSD	Thallium by ICP-MS	7440-28-0	90.323	% Recov	07/21/03	70.000	130.000	
MSD	Uranium by ICP-MS	7440-61-1	89.785	% Recov	07/21/03	70.000	130.000	
MSD	Vanadium by ICP-MS	7440-62-2	89.247	% Recov	07/21/03	70.000	130.000	
MSD	Zinc by ICP-MS	7440-66-6	84.946	% Recov	07/21/03	70.000	130.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030863
Matrix: SOLID
Test: ICP-2008 MS All possible metal

SAF Number: F03-006
Sample Date: 07/01/03
Receive Date: 07/01/03

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit	
BATCH QC								
BLANK	Silver by ICP-MS	7440-22-4	2.40e-01	ug/L	07/21/03	-0.440	0.440	
BLANK	Aluminum by ICP-MS	7429-90-5	<1.10e1	ug/L	07/21/03	-24.200	24.200	
BLANK	Arsenic by ICP-MS	7440-38-2	<3.00e-1	ug/L	07/21/03	-0.660	0.660	
BLANK	Barium by ICP-MS	7440-39-3	<2.00e-1	ug/L	07/21/03	-0.440	0.440	
BLANK	Beryllium by ICP-MS	7440-41-7	<3.00e-1	ug/L	07/21/03	-0.660	0.660	
BLANK	Cadmium by ICP-MS	7440-43-9	<1.00e-1	ug/L	07/21/03	-0.220	0.220	
BLANK	Cobalt by ICP-MS	7440-48-4	<2.00e-1	ug/L	07/21/03	-0.440	0.440	
BLANK	Chromium by ICP-MS	7440-47-3	<3.00e-1	ug/L	07/21/03	-0.660	0.660	
BLANK	Copper by ICP-MS	7440-50-8	<5.00e-1	ug/L	07/21/03	-1.100	1.100	
BLANK	Mercury by ICP-MS	7439-97-6	<1.00e-1	ug/L	07/21/03	-0.220	0.220	
BLANK	Manganese by ICP-MS	7439-96-5	<3.00e-1	ug/L	07/21/03	-0.660	0.660	
BLANK	Molybdenum by ICP-MS	7439-98-7	<3.00e-1	ug/L	07/21/03	-0.660	0.660	
BLANK	Nickel by ICP-MS	7440-02-0	<5.00e-1	ug/L	07/21/03	-1.100	1.100	
BLANK	Lead by ICP-MS	7439-92-1	<1.20e0	ug/L	07/21/03	-2.640	2.640	
BLANK	Antimony by ICP-MS	7440-36-0	7.50e-01	ug/L	07/21/03	-1.100	1.100	
BLANK	Selenium by ICP-MS	7782-49-2	<3.00e-1	ug/L	07/21/03	-0.660	0.660	
BLANK	Thorium by ICP-MS	7440-29-1	<2.00e-1	ug/L	07/21/03	-0.440	0.440	
BLANK	Thallium by ICP-MS	7440-28-0	<1.00e-1	ug/L	07/21/03	-0.220	0.220	
BLANK	Uranium by ICP-MS	7440-61-1	<1.00e-1	ug/L	07/21/03	-0.220	0.220	
BLANK	Vanadium by ICP-MS	7440-62-2	<4.00e-1	ug/L	07/21/03	-0.880	0.880	
BLANK	Zinc by ICP-MS	7440-66-6	<4.00e0	ug/L	07/21/03	-8.800	8.800	
LCS	Silver by ICP-MS	7440-22-4	141.176	% Recov	07/21/03	85.000	115.000	*
LCS	Aluminum by ICP-MS	7429-90-5	137.730	% Recov	07/21/03	85.000	115.000	*
LCS	Arsenic by ICP-MS	7440-38-2	102.564	% Recov	07/21/03	85.000	115.000	
LCS	Barium by ICP-MS	7440-39-3	101.531	% Recov	07/21/03	85.000	115.000	
LCS	Beryllium by ICP-MS	7440-41-7	104.382	% Recov	07/21/03	85.000	115.000	
LCS	Cadmium by ICP-MS	7440-43-9	106.706	% Recov	07/21/03	85.000	115.000	
LCS	Cobalt by ICP-MS	7440-48-4	95.145	% Recov	07/21/03	85.000	115.000	
LCS	Chromium by ICP-MS	7440-47-3	83.353	% Recov	07/21/03	85.000	115.000	*
LCS	Copper by ICP-MS	7440-50-8	100.000	% Recov	07/21/03	85.000	115.000	
LCS	Mercury by ICP-MS	7439-97-6	95.862	% Recov	07/21/03	85.000	115.000	
LCS	Manganese by ICP-MS	7439-96-5	99.355	% Recov	07/21/03	85.000	115.000	
LCS	Molybdenum by ICP-MS	7439-98-7	96.970	% Recov	07/21/03	85.000	115.000	
LCS	Nickel by ICP-MS	7440-02-0	100.000	% Recov	07/21/03	85.000	115.000	
LCS	Lead by ICP-MS	7439-92-1	101.693	% Recov	07/21/03	85.000	115.000	
LCS	Antimony by ICP-MS	7440-36-0	76.812	% Recov	07/21/03	85.000	115.000	*
LCS	Selenium by ICP-MS	7782-49-2	105.263	% Recov	07/21/03	85.000	115.000	
LCS	Thorium by ICP-MS	7440-29-1	91.327	% Recov	07/21/03	85.000	115.000	
LCS	Thallium by ICP-MS	7440-28-0	106.422	% Recov	07/21/03	85.000	115.000	
LCS	Uranium by ICP-MS	7440-61-1	94.898	% Recov	07/21/03	85.000	115.000	
LCS	Vanadium by ICP-MS	7440-62-2	92.073	% Recov	07/21/03	85.000	115.000	
LCS	Zinc by ICP-MS	7440-66-6	109.057	% Recov	07/21/03	85.000	115.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030863
Matrix: SOLID
Test: PCBs complete list

SAF Number: F03-006
Sample Date: 07/01/03
Receive Date: 07/01/03

QC Type	Analyte		CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
Lab ID: W030000600								
BATCH QC ASSOCIATED WITH SAMPLE								
SURR	Decachlorobiphenyl	Surr	2051-24-3	92.800	% Recov	07/15/03	50.000	150.000
SURR	Tetrachloro-m-xylene	Surr	877-09-8	91.700	% Recov	07/15/03	50.000	150.000
Lab ID: W030000601								
BATCH QC ASSOCIATED WITH SAMPLE								
MS	Aroclor-1254		11097-69-1	84.800	% Recov	07/15/03	75.000	125.000
MS	Decachlorobiphenyl	Surr	2051-24-3	91.000	% Recov	07/15/03	50.000	150.000
MS	Tetrachloro-m-xylene	Surr	877-09-8	87.700	% Recov	07/15/03	50.000	150.000
MSD	Aroclor-1254		11097-69-1	85.500	% Recov	07/16/03	75.000	125.000
MSD	Decachlorobiphenyl	Surr	2051-24-3	78.600	% Recov	07/16/03	50.000	150.000
MSD	Tetrachloro-m-xylene	Surr	877-09-8	85.700	% Recov	07/16/03	50.000	150.000
SPK-RPD	Aroclor-1254		11097-69-1	0.822	RPD	07/15/03	0.000	25.000
SPK-RPD	Decachlorobiphenyl	Surr	2051-24-3	14.623	RPD	07/15/03	0.000	20.000
SPK-RPD	Tetrachloro-m-xylene	Surr	877-09-8	2.307	RPD	07/15/03	0.000	20.000
SURR	Decachlorobiphenyl	Surr	2051-24-3	89.900	% Recov	07/15/03	50.000	150.000
SURR	Tetrachloro-m-xylene	Surr	877-09-8	93.200	% Recov	07/15/03	50.000	150.000
BATCH QC								
BLANK	Aroclor-1016		12674-11-2	< 50	ug/Kg	07/15/03		
BLANK	Aroclor-1221		11104-28-2	< 100	ug/Kg	07/15/03		
BLANK	Aroclor-1232		11141-16-5	< 50	ug/Kg	07/15/03		
BLANK	Aroclor-1242		53469-21-9	< 50	ug/Kg	07/15/03		
BLANK	Aroclor-1248		12672-29-6	< 50	ug/Kg	07/15/03		
BLANK	Aroclor-1254		11097-69-1	< 50	ug/Kg	07/15/03		
BLANK	Aroclor-1260		11096-82-5	< 50	ug/Kg	07/15/03		
BLANK	Aroclor-1262		37324-23-5	< 50	ug/Kg	07/15/03		
BLANK	Aroclor-1268		11100-14-4	< 50	ug/Kg	07/15/03		
BLANK	Decachlorobiphenyl	Surr	2051-24-3	93.100	% Recov	07/15/03	50.000	150.000
BLANK	Tetrachloro-m-xylene	Surr	877-09-8	87.500	% Recov	07/15/03	50.000	150.000
LCS	Aroclor-1254		11097-69-1	95.800	% Recov	07/15/03	70.000	130.000
LCS	Decachlorobiphenyl	Surr	2051-24-3	93.100	% Recov	07/15/03	50.000	150.000
LCS	Tetrachloro-m-xylene	Surr	877-09-8	91.400	% Recov	07/15/03	50.000	150.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030863
Matrix: SOLID
Test: WTPH-D TPH Diesel Range (Wa)

SAF Number: F03-006
Sample Date: 07/01/03
Receive Date: 07/01/03

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
Lab ID: W030000600							
BATCH QC ASSOCIATED WITH SAMPLE							
MS	Kerosene	TPHKEROSENE	94.100	%Recove	07/24/03	70.000	130.000
MS	ortho-Terphenyl	84-15-1	95.200	% Recov	07/24/03	70.000	130.000
MSD	Kerosene	TPHKEROSENE	88.800	%Recove	07/24/03	70.000	130.000
MSD	ortho-Terphenyl	84-15-1	91.400	% Recov	07/24/03	70.000	130.000
SPK-RPD	ortho-Terphenyl	84-15-1	4.073	RPD	07/24/03	0.000	20.000
SURR	ortho-Terphenyl	84-15-1	75.600	% Recov	07/24/03	70.000	130.000
Lab ID: W030000601							
BATCH QC ASSOCIATED WITH SAMPLE							
SURR	ortho-Terphenyl	84-15-1	90.000	% Recov	07/24/03	70.000	130.000
BATCH QC							
BLANK	Kerosene	TPHKEROSENE	< 3800	ug/Kg	07/24/03	0.000	100.000
BLANK	ortho-Terphenyl	84-15-1	19065	ug/Kg	07/24/03	70.000	130.000
BLANK	Total Pet. Hydrocarbons Diesel	THPDIESEL	< 3800	ug/Kg	07/24/03	0.000	300.000
LCS	ortho-Terphenyl	84-15-1	87.600	% Recov	07/24/03	70.000	130.000
LCS	Total Pet. Hydrocarbons Diesel	THPDIESEL	77.700	% Recov	07/24/03	80.000	120.000 *

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030863
Matrix: SOLID
Test: Uranium Isotopics by AEA

SAF Number: F03-006
Sample Date: 07/01/03
Receive Date: 07/01/03

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
Lab ID: W030000600							
BATCH QC ASSOCIATED WITH SAMPLE							
DUP	U-238 by AEA	24678-82-8	71.698	RPD	07/24/03	0.000	20.000
BATCH QC							
BLANK	U-238 by AEA	24678-82-8	9.5e-03	PCG	07/24/03	0.000	1000.000
LCS	U-238 by AEA	24678-82-8	115.894	% Recov	07/24/03	75.000	125.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030863
Matrix: SOLID
Test: Plutonium Isotopics by AEA

SAF Number: F03-006
Sample Date: 07/01/03
Receive Date: 07/01/03

Lab ID: W030000600

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit	
DUP	Pu-239/240 by AEA	PU-239/240	139.048	RPD	07/24/03	0.000	20.000	*

BATCH QC

BLANK	Pu-239/240 by AEA	PU-239/240	3.3e-03	PCG	07/24/03	0.000	1000.000
LCS	Pu-239/240 by AEA	PU-239/240	99.309	% Recov	07/24/03	75.000	125.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030863
Matrix: SOLID
Test: Americium by AEA

SAF Number: F03-006
Sample Date: 07/01/03
Receive Date: 07/01/03

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
Lab ID: W030000600							
BATCH QC ASSOCIATED WITH SAMPLE							
DUP	Am-241 by AEA	14596-10-2	74.286	RPD	07/24/03	0.000	20.000
BATCH QC							
BLANK	Am-241 by AEA	14596-10-2	1.7e-02	PCG	07/24/03	0.000	1000.000
LCS	Am-241 by AEA	14596-10-2	84.411	% Recov	07/24/03	75.000	125.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030863
Matrix: SOLID
Test: VOA Ground Water Protection

SAF Number: F03-006
Sample Date: 07/01/03
Receive Date: 07/01/03

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
Lab ID: W030000600							
BATCH QC ASSOCIATED WITH SAMPLE							
MS	1,1-Dichloroethene	75-35-4	90.000	% Recov	07/15/03	63.000	117.000
MS	Benzene	71-43-2	104.000	% Recov	07/15/03	75.000	129.000
MS	4-Bromofluorobenzene Surr	460-00-4	100.000	% Recov	07/15/03	84.000	116.000
MS	Chlorobenzene	108-90-7	102.000	% Recov	07/15/03	79.000	119.000
MS	1,2-Dichloroethane-d4 Surr	17060-07-0	110.000	% Recov	07/15/03	82.000	136.000
MS	Toluene-d8 Surr	2037-26-5	110.000	% Recov	07/15/03	89.000	119.000
MS	Toluene	108-88-3	104.000	% Recov	07/15/03	76.000	120.000
MS	Trichloroethene	79-01-6	100.000	% Recov	07/15/03	73.000	123.000
MSD	1,1-Dichloroethene	75-35-4	92.000	% Recov	07/15/03	63.000	117.000
MSD	Benzene	71-43-2	102.000	% Recov	07/15/03	75.000	129.000
MSD	4-Bromofluorobenzene Surr	460-00-4	100.000	% Recov	07/15/03	84.000	116.000
MSD	Chlorobenzene	108-90-7	104.000	% Recov	07/15/03	79.000	119.000
MSD	1,2-Dichloroethane-d4 Surr	17060-07-0	110.000	% Recov	07/15/03	82.000	136.000
MSD	Toluene-d8 Surr	2037-26-5	110.000	% Recov	07/15/03	89.000	119.000
MSD	Toluene	108-88-3	104.000	% Recov	07/15/03	76.000	120.000
MSD	Trichloroethene	79-01-6	104.000	% Recov	07/15/03	73.000	123.000
SPK-RPD	1,1-Dichloroethene	75-35-4	2.198	RPD	07/15/03	0.000	25.000
SPK-RPD	Benzene	71-43-2	1.942	RPD	07/15/03	0.000	25.000
SPK-RPD	4-Bromofluorobenzene Surr	460-00-4	0.000	RPD	07/15/03	0.000	25.000
SPK-RPD	Chlorobenzene	108-90-7	1.942	RPD	07/15/03	0.000	25.000
SPK-RPD	1,2-Dichloroethane-d4 Surr	17060-07-0	0.000	RPD	07/15/03	0.000	25.000
SPK-RPD	Toluene-d8 Surr	2037-26-5	0.000	RPD	07/15/03	0.000	25.000
SPK-RPD	Toluene	108-88-3	0.000	RPD	07/15/03	0.000	25.000
SPK-RPD	Trichloroethene	79-01-6	3.922	RPD	07/15/03	0.000	25.000
SURR	4-Bromofluorobenzene Surr	460-00-4	100.000	% Recov	07/15/03	71.000	125.000
SURR	1,2-Dichloroethane-d4 Surr	17060-07-0	110.000	% Recov	07/15/03	80.000	134.000
SURR	Toluene-d8 Surr	2037-26-5	110.000	% Recov	07/15/03	80.000	126.000
Lab ID: W030000601							
BATCH QC ASSOCIATED WITH SAMPLE							
SURR	4-Bromofluorobenzene Surr	460-00-4	100.000	% Recov	07/15/03	71.000	125.000
SURR	1,2-Dichloroethane-d4 Surr	17060-07-0	110.000	% Recov	07/15/03	80.000	134.000
SURR	Toluene-d8 Surr	2037-26-5	110.000	% Recov	07/15/03	80.000	126.000
BATCH QC							
BLANK	1,1-Dichloroethane	75-34-3	< 2.0	ug/Kg	07/15/03		
BLANK	1,1,1-Trichloroethane	71-55-6	< 2.0	ug/Kg	07/15/03		
BLANK	1,1,2-Trichloroethane	79-00-5	< 2.0	ug/Kg	07/15/03		
BLANK	1,1,2,2-Tetrachloroethane	79-34-5	< 2.0	ug/Kg	07/15/03		
BLANK	1,1-Dichloroethene	75-35-4	< 2.0	ug/Kg	07/15/03		
BLANK	1,2-Dichloroethane	107-06-2	< 2.0	ug/Kg	07/15/03		
BLANK	1,2-Dichloroethene (cis & tran	540-59-0	< 2.0	ug/Kg	07/15/03		

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030863
Matrix: SOLID
Test: VOA Ground Water Protection

SAF Number: F03-006
Sample Date:
Receive Date:

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
BLANK	2-Hexanone	591-78-6	< 2.0	ug/Kg	07/15/03		
BLANK	2-Pentanone	107-87-9	< 2.0	ug/Kg	07/15/03		
BLANK	4-Methyl-2-pentanone	108-10-1	< 2.0	ug/Kg	07/15/03		
BLANK	Acetone	67-64-1	< 2.0	ug/Kg	07/15/03		
BLANK	Bromodichloromethane	75-27-4	< 2.0	ug/Kg	07/15/03		
BLANK	Benzene	71-43-2	< 2.0	ug/Kg	07/15/03		
BLANK	4-Bromofluorobenzene Surr	460-00-4	99.000	% Recov	07/15/03	71.000	125.000
BLANK	Bromoform	75-25-2	< 2.0	ug/Kg	07/15/03		
BLANK	n-Butylbenzene	104-51-8	< 2.0	ug/Kg	07/15/03		
BLANK	Carbon Disulfide	75-15-0	< 2.0	ug/Kg	07/15/03		
BLANK	Carbon Tetrachloride	56-23-5	< 2.0	ug/Kg	07/15/03		
BLANK	Dibromochloromethane	124-48-1	< 2.0	ug/Kg	07/15/03		
BLANK	Chloroform	67-66-3	< 2.0	ug/Kg	07/15/03		
BLANK	Chlorobenzene	108-90-7	< 2.0	ug/Kg	07/15/03		
BLANK	cis-1,3-Dichloropropene	10061-01-5	< 2.0	ug/Kg	07/15/03		
BLANK	Chloroethane	75-00-3	< 2.0	ug/Kg	07/15/03		
BLANK	1,2-Dichloroethane-d4 Surr	17060-07-0	110.000	% Recov	07/15/03	80.000	134.000
BLANK	1,2-Dichloropropane	78-87-5	< 2.0	ug/Kg	07/15/03		
BLANK	Ethylbenzene	100-41-4	< 2.0	ug/Kg	07/15/03		
BLANK	Bromomethane	74-83-9	< 2.0	ug/Kg	07/15/03		
BLANK	Chloromethane	74-87-3	< 2.0	ug/Kg	07/15/03		
BLANK	2-Butanone	78-93-3	< 2.0	ug/Kg	07/15/03		
BLANK	Methylene Chloride	75-09-2	< 2.0	ug/Kg	07/15/03		
BLANK	Tetrachloroethene	127-18-4	< 2.0	ug/Kg	07/15/03		
BLANK	Styrene	100-42-5	< 2.0	ug/Kg	07/15/03		
BLANK	Total Xylenes	1330-20-7	< 2.0	ug/Kg	07/15/03	0.000	300.000
BLANK	Toluene-d8 Surr	2037-26-5	110.000	% Recov	07/15/03	80.000	126.000
BLANK	Toluene	108-88-3	< 2.0	ug/Kg	07/15/03		
BLANK	trans-1,3-Dichloropropene	10061-02-6	< 2.0	ug/Kg	07/15/03		
BLANK	Trichloroethene	79-01-6	< 2.0	ug/Kg	07/15/03		
BLANK	Vinyl Chloride	75-01-4	< 2.0	ug/Kg	07/15/03		
LCS	1,1-Dichloroethene	75-35-4	94.000	% Recov	07/15/03	70.000	130.000
LCS	Benzene	71-43-2	106.000	% Recov	07/15/03	70.000	130.000
LCS	4-Bromofluorobenzene Surr	460-00-4	100.000	% Recov	07/15/03	71.000	125.000
LCS	Chlorobenzene	108-90-7	104.000	% Recov	07/15/03	70.000	130.000
LCS	1,2-Dichloroethane-d4 Surr	17060-07-0	110.000	% Recov	07/15/03	80.000	134.000
LCS	Toluene-d8 Surr	2037-26-5	110.000	% Recov	07/15/03	80.000	126.000
LCS	Toluene	108-88-3	108.000	% Recov	07/15/03	70.000	130.000
LCS	Trichloroethene	79-01-6	106.000	% Recov	07/15/03	70.000	130.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030863
Matrix: SOLID
Test: NWTPH-GX TPH Gasoline Range

SAF Number: F03-006
Sample Date: 07/01/03
Receive Date: 07/01/03

Lab ID: W030000600

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
DUP	Total Pet. Hydrocarbons Gas	THPGASOLINE	n/a	RPD	07/14/03	0.000	20.000
MS	Total Pet. Hydrocarbons Gas	THPGASOLINE	97.126	% Recov	07/14/03	50.000	150.000
MSD	Total Pet. Hydrocarbons Gas	THPGASOLINE	98.276	% Recov	07/14/03	50.000	150.000
SPK-RPD	Total Pet. Hydrocarbons Gas	THPGASOLINE	1.177	RPD	07/14/03	0.000	20.000

BATCH QC

BLANK	Total Pet. Hydrocarbons Gas	THPGASOLINE	<100	mg/L	07/14/03	0.000	300.000
LCS	Total Pet. Hydrocarbons Gas	THPGASOLINE	110.345	% Recov	07/14/03	85.000	115.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030863
Matrix: SOLID
Test: Alcohols, Glycols - 8015

SAF Number: F03-006
Sample Date: 07/01/03
Receive Date: 07/01/03

Lab ID: W030000600

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
DUP	2-Bromoethanol	540-51-2	6.452	rpd	07/22/03	0.000	25.000
DUP	Diethyl ether	60-29-7	n/a	RPD	07/22/03	0.000	25.000
DUP	Ethylene glycol	107-21-1	n/a	RPD	07/22/03	0.000	25.000
DUP	Methanol	67-56-1	n/a	RPD	07/22/03	0.000	25.000
MS	2-Bromoethanol	540-51-2	81.250	%Recove	07/22/03	70.000	125.000
MS	Diethyl ether	60-29-7	100.000	%Recove	07/22/03	75.000	125.000
MS	Ethylene glycol	107-21-1	81.250	%Recove	07/22/03	75.000	125.000
MS	Methanol	67-56-1	87.500	%Recove	07/22/03	75.000	125.000
MSD	2-Bromoethanol	540-51-2	100.000	%Recove	07/22/03	70.000	125.000
MSD	Diethyl ether	60-29-7	100.000	%Recove	07/22/03	75.000	125.000
MSD	Ethylene glycol	107-21-1	93.750	%Recove	07/22/03	75.000	125.000
MSD	Methanol	67-56-1	100.000	%Recove	07/22/03	75.000	125.000
SPK-RPD	2-Bromoethanol	540-51-2	20.690	RPD	07/22/03	0.000	20.000
SPK-RPD	Diethyl ether	60-29-7	0.000	RPD	07/22/03	0.000	20.000
SPK-RPD	Ethylene glycol	107-21-1	14.286	RPD	07/22/03	0.000	20.000
SPK-RPD	Methanol	67-56-1	13.333	RPD	07/22/03	0.000	20.000

BATCH QC

BLANK	2-Bromoethanol	540-51-2	13000	ug/Kg	07/22/03	0.000	10.000
BLANK	Diethyl ether	60-29-7	<5000	ug/Kg	07/22/03	0.000	10.000
BLANK	Ethylene glycol	107-21-1	<5000	ug/Kg	07/22/03	0.000	5.000
BLANK	Methanol	67-56-1	<1000	ug/Kg	07/22/03	0.000	10.000
LCS	2-Bromoethanol	540-51-2	87.500	%Recove	07/22/03	70.000	130.000
LCS	Diethyl ether	60-29-7	112.500	%Recove	07/22/03	70.000	130.000
LCS	Ethylene glycol	107-21-1	93.750	%Recove	07/22/03	70.000	130.000
LCS	Methanol	67-56-1	106.250	%Recove	07/22/03	70.000	130.000
LCS-DUP	2-Bromoethanol	540-51-2	87.500	%Recove	07/22/03	0.000	130.000
LCS-DUP	Diethyl ether	60-29-7	87.500	%Recove	07/22/03	70.000	130.000
LCS-DUP	Ethylene glycol	107-21-1	100.000	%Recove	07/22/03	70.000	130.000
LCS-DUP	Methanol	67-56-1	112.500	%Recove	07/22/03	70.000	130.000

T4180-03-SLF-023

ATTACHMENT 3

SAMPLE RECEIPT INFORMATION

Consisting of 3 pages
Cover page not included

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

7/31/03

ACKNOWLEDGMENT OF SAMPLES RECEIVED

File KBS

Ground Water Protection Program

Richland, WA 99352
Attn: Steve Trent

Customer Code: GPP
PO#: 117504/ES20
Group#: 20030863
Project#: F03-006
Proj Mgr: STEVE TRENT A0-21
Phone: 373-5869

The following samples were received from you on 07/01/03. 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	Matrix	Sample Date
W030000600	B173T7	Solid, or handle as if solid	07/01/03
W030000601	B17486	Solid, or handle as if solid	07/01/03

Tests Scheduled

TRENT	@2008	@8015GPP	@AEA-30	@AEA-31	@AEA-32
	@GEA-GPP	@IC-30	@ICP-GPP	@PCBGPP	@SVOCGPP	@TPHD
	@TPHG-WA	@VOA-GPP	CN-02	NH4-IC	PERSOLID	PH-30
TRENT	@2008	@8015GPP	@AEA-30	@AEA-31	@AEA-32
	@GEA-GPP	@IC-30	@ICP-GPP	@PCBGPP	@SVOCGPP	@TPHD
	@TPHG-WA	@VOA-GPP	CN-02	NH4-IC	PERSOLID	PH-30

Test Acronym Description

Test Acronym	Description
@2008	ICP-2008 MS All possible metal
@8015GPP	Alcohols, Glycols - 8015
@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
@ICP-GPP	ICP Metals Analysis, Grd H20 P
@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
NH4-IC	Ammonia (N) by IC
PERSOLID	Percent Solids
PH-30	pH Soil and Waste Measurement

COPY

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FH-Central Plateau Project	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F03-006-209	Page 1 of 1

Collector Pope/Pfister/Hughes/Johansen	Company Contact LC Hulstrom	Telephone No. 373-3928	Project Coordinator TRENT, SJ	Price Code 8N Air Quality ☐	Data Turnaround 45 Days
Project Designation 200-PW-2/200-PW-4 OU - Borehole Soil Sampling	Sampling Location 216-A-36B (C3248) - 24-26.5'		SAF No. F03-006		
Ice Chest No. GPP-03-006	Field Logbook No. HNF-N-3361	COA 117504ES10	Method of Shipment Government Vehicle		
Shipped To Waste Sampling & Characterization	Offsite Property No.		Bill of Lading/Air Bill No.		

POSSIBLE SAMPLE HAZARDS/REMARKS											
Special Handling and/or Storage	Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C						
	Type of Container	Gs*	aG	Gs*	P						
	No. of Container(s)	2	1	2	1						
	Volume	40mL	40mL	40mL	125mL						
SAMPLE ANALYSIS		See item (1) in Special Instructions.	See item (2) in Special Instructions.	See item (3) in Special Instructions.	See item (4) in Special Instructions.						

COPY

Sample No.	Matrix *	Sample Date	Sample Time										
B17486	SOIL	7-1-03	0945	X	X	X	X						
W0300006D1													

CHAIN OF POSSESSION		Sign/Print Names	
Relinquished By/Removed From J.S. Pope / [illegible]	Date/Time 7-1-03 1420	Received By/Stored In [illegible]	Date/Time 7/1/03 1420
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

Report kerosene and diesel range compounds from WTPH-D analysis. FH acknowledges that holding times (less than 14 days) may not be met by the lab due to the radl characteristics.

(1) VOA - 8260A (TCL); VOA - 8260A (Add-On) {2-Pentanone, Benzyl alcohol, n-Butylbenzene}
(2) Semi-VOA - 8270A (TCL); Semi-VOA – 8270A (Add-On) {2-Butoxyethanol, Tributyl phosphate}; TPH-Diesel Range - WTPH-D; TPH-Gasoline Range - WTPH-G; PCBs - 8082
(3) Alcohols, Glycols, & Ketones - 8015 {Diethyl ether, Ethylene glycol, Methanol}
(4) Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}; Gamma Spec - Add-on {Antimony-125, Cesium-134, Radium-226, Radium-228, Tin-126}; Isotopic Plutonium; Americium-241; Isotopic Uranium; Trace Elements ICP/MS - 200.8 (Complete) {Antimony, Arsenic, Barium, Beryllium, Chromium, Copper, Lead, Mercury, Nickel, Silver, Uranium}; ICP Metals - 6010A (Add-on) {Bismuth, Boron}; IC Anions - 300.0 {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphate, Sulfate}; Cyanide (Total) - 335.2; Cations (IC) - 300.7 {Nitrogen in ammonium}; pH (Soil) - 9045

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

7/31

FH-Central Plateau Project	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F03-006-208	Page 1 of 1

Collector Pope/Pfister/Hughes/Johansen	Company Contact LC Hulstrom	Telephone No. 373-3928	Project Coordinator TRENT, SJ	Price Code 8N Air Quality ☐	Data Turnaround 45 Days
Project Designation 200-PW-2/200-PW-4 OU - Borehole Soil Sampling	Sampling Location 216-A-36B (C3248) - 12.5-15'		SAF No. F03-006		
Ice Chest No. GPP-03-006	Field Logbook No. HNF-N-3361	COA 117504ES10	Method of Shipment Government Vehicle		
Shipped To Waste Sampling & Characterization	Offsite Property No.		Bill of Lading/Air Bill No.		

POSSIBLE SAMPLE HAZARDS/REMARKS

RADIOACTIVE TIE TO: B173T6, B17491

Special Handling and/or Storage

20030863

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C							
Type of Container	Gs*	aG	Gs*	aG P							
No. of Container(s)	2	1	2	1							
Volume	40mL	40mL	40mL	125mL							
SAMPLE ANALYSIS	See item (1) in Special Instructions.	See item (2) in Special Instructions.	See item (3) in Special Instructions.	See item (4) in Special Instructions.							

COPY

Sample No.	Matrix *	Sample Date	Sample Time										
B173T7	SOIL	7-1-03	0830	X	X	X	X						
1203000600													

CHAIN OF POSSESSION		Sign/Print Names	
Relinquished By/Removed From J. Pope/Pfister	Date/Time 7-1-03 1420	Received By/Stored In KB2605	Date/Time 7/1/03 1420
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

FH acknowledges that holding times (less than 14 days) may not be met by the lab due to the radl characteristics. Report kerosene and diesel range compounds from WTPH-D analysis.

(1) VOA - 8260A (TCL); VOA - 8260A (Add-On) {2-Pentanone, Benzyl alcohol, n-Butylbenzene}
(2) Semi-VOA - 8270A (TCL); Semi-VOA – 8270A (Add-On) {2-Butoxyethanol, Tributyl phosphate};
TPH-Diesel Range - WTPH-D; TPH-Gasoline Range - WTPH-G; PCBs - 8082
(3) Alcohols, Glycols, & Ketones - 8015 {Diethyl ether, Ethylene glycol, Methanol}
(4) Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}; Gamma Spec - Add-on {Antimony-125, Cesium-134, Radium-226, Radium-228, Tin-126}; Isotopic Plutonium; Americium-241; Isotopic Uranium; Trace Elements ICP/MS - 200.8 (Complete) {Antimony, Arsenic, Barium, Beryllium, Chromium, Copper, Lead, Mercury, Nickel, Silver, Uranium}; ICP Metals - 6010A (Add-on) {Bismuth, Boron}; IC Anions - 300.0 {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphate, Sulfate}; Cyanide (Total) - 335.2; Cations (IC) - 300.7 {Nitrogen in ammonium}; pH (Soil) - 9045

Matrix *
S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wi=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

HI-EE-011 (03/01/2002)

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