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# FLUOR

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## Memorandum

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M8141-SLF-05-162

To: S. J. Trent A0-21 Date: March 31, 2005

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



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

Subject: FINAL RESULTS FOR 200-LW-1/LW-2 CHARACTERIZATION - WATER- SAMPLE DELIVERY GROUP WSCF20050507 SAF NUMBER F03-026

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

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

This letter contains a narrative (Attachment 1) for sample delivery group WSCF20050507, the analytical results (Attachment 2), and the sample receipt information (Attachment 3).

SLF/grf

Attachments 3

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M8141-SLF-05-162

ATTACHMENT 1

**NARRATIVE**

Consisting of 3 pages  
Including cover page

<b>Sample Delivery Group</b>	<b>WSCF20050507</b>
<b>Sample Matrix</b>	<b>WATER</b>
<b>Sample Visual</b>	<b>N/A</b>
<b>SAF Number</b>	<b>F03-026</b>
<b>Data Deliverable</b>	<b>Summary Report</b>

**Introduction**

One (1) 200-LW-1/LW-2 Characterization – Water/216-Z-7, 96'-99.5', sample (B1BX45) was received at the WSCF Laboratory on March 3, 2005. The sample was analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Groundwater Remediation Program – Letter of Instruction*, referenced in the cover letter.

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

**Analytical Methodology for Requested Analyses**

**Organic**

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

**Organic Comments**

VOA – The hold time for this analysis was met. A Blank, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See pages 9 through 11 for QC details. Analytical Note:

- Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B1CD82 (SDG# 20050457, SAF# F05-011).
- Tetrachloroethene, Styrene, and Xylenes (total) – Blank QC sample results exceeded the established laboratory limits. Contamination detected in the associated Blank QC samples was evaluated and there was no significant affect on the sample results. Sample results were below the method detection limits and U-flagged.
- Toluene – Blank QC sample, Laboratory Control QC sample and the Spike Relative Percent Difference exceeded the established laboratory limits. Contamination detected in the associated QC samples was evaluated and it was determined that the contamination was attributed to an artifact from a waste sample that was run previously. The sample result was slightly above the method detection limit and BJX-flagged.

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

All QC controls are within the established limits.

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



Pauline D. Mix  
WSCF Client Services

Abbreviations

Hg – mercury

IC – ion chromatography

ICP – inductively coupled plasma

ICP/AES – ICP/atomic emission spectroscopy

ICP/MS – ICP/mass spectrometry

Total U – total uranium

AT/TB – total alpha/total beta

AEA – Alpha Energy Analysis

WTPH-G – Total Hydrocarbons-Gasoline

Am – americium

Cm – curium

Pu – plutonium

Np – neptunium

GEA – gamma energy analysis

H3 – Tritium

Sr – Strontium 89, 90

WTPH-D – Total Hydrocarbons-Diesel

TSS – Total Suspended Solids

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ATTACHMENT 2

**ANALYTICAL RESULTS**

Consisting of 11 pages  
Including cover page

**WSCF**  
**ANALYTICAL RESULTS REPORT**

for

**Groundwater Remediation Program**

**Richland, WA 99354**

**Attention: Steve Trent**

Analytical:

*Atty S. Fitzgerald*

Client Services:

*G.P.M. 3/31/2005*

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

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

Contract#: FH-EIS-2003-MEM-001

Report#: WSCF20050507

Report Date: 31-mar-2005

Report WGPP/ver. 1.1

Groundwater Remediation Program

# WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent  
Project: F03-026; F03-026

Group #: WSCF20050507

Sample #	Client ID	CAS #	Test Performed	Matrix	Method	RQ	Result	Unit	DF	MDL	Analyze Sample	Receive
W050000834	B1BX45	75-35-4	1,1-Dichloroethene	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	79-01-6	Trichloroethene	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	71-43-2	Benzene	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	108-88-3	Toluene	WATER	LA-523-455	BJX	3.30	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	108-90-7	Chlorobenzene	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	75-34-3	1,1-Dichloroethane	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	100-41-4	Ethylbenzene	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	100-42-5	Styrene	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	10061-01-5	cis-1,3-Dichloropropene	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	10061-02-6	trans-1,3-Dichloropropene	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	107-06-2	1,2-Dichloroethane	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	108-10-1	4-Methyl-2-Pentanone	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	124-48-1	Dibromochloromethane	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	127-18-4	Tetrachloroethene	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	1330-20-7	Xylenes (total)	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	540-59-0	1,2-Dichloroethene(Total)	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	56-23-5	Carbon tetrachloride	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	591-78-6	2-Hexanone	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	67-64-1	Acetone	WATER	LA-523-455	J	3.70	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	67-66-3	Chloroform	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	71-55-6	1,1,1-Trichloroethane	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	74-83-9	Bromomethane	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	79-34-5	1,1,2,2-Tetrachloroethane	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	74-87-3	Chloromethane	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	75-00-3	Chloroethane	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	75-01-4	Vinyl chloride	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05

MDL = Minimum Detection Limit  
RQ = Result Qualifier  
J - Analyte is an estimate, has potentially larger errors  
X - Other flags and notes described in the comments/narrative.

DF = Dilution Factor  
\* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols  
Report WGPP/ver. 1.1  
Groundwater Remediation Program

# WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent  
Project: F03-026: F03-026

Group #: WSCF20050507

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze Sample	Receive
W050000834	B1BX45	75-09-2	Methylenechloride	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	75-15-0	Carbon disulfide	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	75-25-2	Bromoform	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	75-27-4	Bromodichloromethane	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	78-87-5	1,2-Dichloropropane	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	78-93-3	2-Butanone	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	79-00-5	1,1,2-Trichloroethane	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05
W050000834	B1BX45	71-36-3	1-Butanol	WATER	LA-523-455	U	< 20.0	ug/L	1.00	20	03/09/05	03/03/05
W050000834	B1BX45	104-51-8	n-Butylbenzene	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	03/09/05	03/03/05

**MDL = Minimum Detection Limit**    B - The Analyte detected in both the BLANK and the SAMPLE (org.)  
**RQ = Result Qualifier**                U - Analyzed for but not detected above limiting criteria.  
 J - Analyte is an estimate, has potentially larger errors  
 X - Other flags and notes described in the comments/narrative.

**DF = Dilution Factor**  
 \* - Indicates results that have NOT been validated;    + - Indicates more than six qualifier symbols  
 Report WGPP/ver. 1.1  
 Groundwater Remediation Program

# WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050507  
 Matrix: WATER  
 Test: VOA Ground Water Protection

SAF Number: F03-026  
 Sample Date: 02/24/05  
 Receive Date: 02/24/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
<b>Lab ID: W050000764</b>									
<b>BATCH QC ASSOCIATED WITH SAMPLE</b>									
MS	1,1-Dichloroethene	75-35-4	24.260	97.000	% Recov	03/09/05	63.000	117.000	
MS	Benzene	71-43-2	24.730	98.900	% Recov	03/09/05	75.000	129.000	
MS	4-Bromofluorobenzene	460-00-4	50.310	101.000	% Recov	03/09/05	84.000	116.000	
MS	Chlorobenzene	108-90-7	25.260	101.000	% Recov	03/09/05	79.000	119.000	
MS	1,2-Dichloroethane-d4	17060-07-0	49.150	98.300	% Recov	03/09/05	82.000	136.000	
MS	Toluene-d8	2037-26-5	51.020	102.000	% Recov	03/09/05	89.000	119.000	
MS	Toluene	108-88-3	25.960	104.000	% Recov	03/09/05	76.000	120.000	
MS	Trichloroethene	79-01-6	25.320	101.000	% Recov	03/09/05	73.000	123.000	
MSD	1,1-Dichloroethene	75-35-4	24.910	99.600	% Recov	03/09/05	63.000	117.000	
MSD	Benzene	71-43-2	24.280	97.100	% Recov	03/09/05	75.000	129.000	
MSD	4-Bromofluorobenzene	460-00-4	49.950	99.900	% Recov	03/09/05	84.000	116.000	
MSD	Chlorobenzene	108-90-7	25.320	101.000	% Recov	03/09/05	79.000	119.000	
MSD	1,2-Dichloroethane-d4	17060-07-0	50.850	102.000	% Recov	03/09/05	82.000	136.000	
MSD	Toluene-d8	2037-26-5	51.390	103.000	% Recov	03/09/05	89.000	119.000	
MSD	Toluene	108-88-3	20.700	82.800	% Recov	03/09/05	76.000	120.000	
MSD	Trichloroethene	79-01-6	24.480	97.900	% Recov	03/09/05	73.000	123.000	
SPK-RPD	1,1-Dichloroethene	75-35-4	99.600	2.645	RPD	03/09/05	0.000	10.000	
SPK-RPD	Benzene	71-43-2	97.100	1.837	RPD	03/09/05	0.000	10.000	
SPK-RPD	Chlorobenzene	108-90-7	101.000	0.000	RPD	03/09/05	0.000	10.000	
SPK-RPD	1,2-Dichloroethane-d4	17060-07-0	102.000	3.694	RPD	03/09/05	0.000	25.000	
SPK-RPD	Toluene-d8	2037-26-5	103.000	0.976	RPD	03/09/05	0.000	25.000	
SPK-RPD	Toluene	108-88-3	82.800	22.698	RPD	03/09/05	0.000	10.000	
SPK-RPD	Trichloroethene	79-01-6	97.900	3.117	RPD	03/09/05	0.000	10.000	

Lab ID: W050000834  
 BATCH QC ASSOCIATED WITH SAMPLE

# WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050507  
 Matrix: WATER  
 Test: VOA Ground Water Protection

SAF Number: F03-026  
 Sample Date: 03/03/05  
 Receive Date: 03/03/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
SURR	4-Bromofluorobenzene	460-00-4	51.060	102.000	% Recov	03/09/05	84.000	116.000	
SURR	1,2-Dichloroethane-d4	17060-07-0	52.250	104.000	% Recov	03/09/05	82.000	136.000	
SURR	Toluene-d8	2037-26-5	51.540	103.000	% Recov	03/09/05	89.000	119.000	
<b>BATCH QC</b>									
BLANK	1,1-Dichloroethane	75-34-3	< 1.0	n/a	ug/L	03/09/05			U
BLANK	1,1,1-Trichloroethane	71-55-6	< 1.0	n/a	ug/L	03/09/05			U
BLANK	1,1,2-Trichloroethane	79-00-5	< 1.0	n/a	ug/L	03/09/05			U
BLANK	1,1,2,2-Tetrachloroethane	79-34-5	< 1.0	n/a	ug/L	03/09/05	0.000	5.000	U
BLANK	1,1-Dichloroethene	75-35-4	< 1.0	n/a	ug/L	03/09/05			U
BLANK	1,2-Dichloroethane	107-06-2	< 1.0	n/a	ug/L	03/09/05			U
BLANK	1,2-Dichloroethene(Total)	540-59-0	< 1.0	n/a	ug/L	03/09/05			U
BLANK	1-Butanol	71-36-3	< 20	n/a	ug/L	03/09/05			U
BLANK	2-Hexanone	591-78-6	< 1.0	n/a	ug/L	03/09/05			U
BLANK	4-Methyl-2-Pentanone	108-10-1	< 1.0	n/a	ug/L	03/09/05			U
BLANK	Acetone	67-64-1	< 1.0	n/a	ug/L	03/09/05			U
BLANK	Bromodichloromethane	75-27-4	< 1.0	n/a	ug/L	03/09/05			U
BLANK	Benzene	71-43-2	< 1.0	n/a	ug/L	03/09/05			U
BLANK	4-Bromofluorobenzene	460-00-4	51.160	102.000	% Recov	03/09/05	84.000	116.000	U
BLANK	Bromoform	75-25-2	< 1.0	n/a	ug/L	03/09/05			U
BLANK	n-Butylbenzene	104-51-8	< 1.0	n/a	ug/L	03/09/05			U
BLANK	Carbon disulfide	75-15-0	< 1.0	n/a	ug/L	03/09/05			U
BLANK	Carbon tetrachloride	56-23-5	< 1.0	n/a	ug/L	03/09/05			U
BLANK	Dibromochloromethane	124-48-1	< 1.0	n/a	ug/L	03/09/05			U
BLANK	Chloroform	67-66-3	< 1.0	n/a	ug/L	03/09/05			U
BLANK	Chlorobenzene	108-90-7	< 1.0	n/a	ug/L	03/09/05			U
BLANK	cis-1,3-Dichloropropene	10061-01-5	< 1.0	n/a	ug/L	03/09/05			U
BLANK	Chloroethane	75-00-3	< 1.0	n/a	ug/L	03/09/05			U
BLANK	1,2-Dichloroethane-d4	17060-07-0	48.110	96.200	% Recov	03/09/05	82.000	136.000	U
BLANK	1,2-Dichloropropane	78-87-5	< 1.0	n/a	ug/L	03/09/05			U

# WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050507  
 Matrix: WATER  
 Test: VOA Ground Water Protection

SAF Number: F03-026  
 Sample Date:  
 Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Ethylbenzene	100-41-4	2.6	2,600	ug/L	03/09/05			
BLANK	Bromomethane	74-83-9	< 1.0	n/a	ug/L	03/09/05			U
BLANK	Chloromethane	74-87-3	< 1.0	n/a	ug/L	03/09/05			U
BLANK	2-Butanone	78-93-3	< 1.0	n/a	ug/L	03/09/05			U
BLANK	Methylenechloride	75-09-2	< 1.0	n/a	ug/L	03/09/05			U
BLANK	Tetrachloroethene	127-18-4	3.5	3,500	ug/L	03/09/05			
BLANK	Styrene	100-42-5	1.9	1,900	ug/L	03/09/05			
BLANK	Xylenes (total)	1330-20-7	10	10,000	ug/L	03/09/05	0.000		
BLANK	Toluene-d8	2037-26-5	50.440	101,000	% Recov	03/09/05	89.000		
BLANK	Toluene	108-88-3	16	16,000	ug/L	03/09/05		5,000	
BLANK	trans-1,3-Dichloropropene	10061-02-6	< 1.0	n/a	ug/L	03/09/05			U
BLANK	Trichloroethene	79-01-6	< 1.0	n/a	ug/L	03/09/05			U
BLANK	Vinyl chloride	75-01-4	< 1.0	n/a	ug/L	03/09/05			U
LCS	1,1-Dichloroethene	75-35-4	23.530	94,100	% Recov	03/09/05	70,000	130,000	
LCS	Benzene	71-43-2	24.870	99,500	% Recov	03/09/05	70,000	130,000	
LCS	4-Bromofluorobenzene	460-00-4	52.900	106,000	% Recov	03/09/05	84,000	116,000	
LCS	Chlorobenzene	108-90-7	25.270	101,000	% Recov	03/09/05	70,000	130,000	
LCS	1,2-Dichloroethane-d4	17060-07-0	48.160	98,300	% Recov	03/09/05	82,000	136,000	
LCS	Toluene-d8	2037-26-5	51.910	104,000	% Recov	03/09/05	89,000	119,000	
LCS	Toluene	108-88-3	59.860	239,000	% Recov	03/09/05	70,000	130,000	
LCS	Trichloroethene	79-01-6	25.420	102,000	% Recov	03/09/05	70,000	130,000	

**WSCF**  
**ANALYTICAL COMMENT REPORT**

**Attention:** Steve Trent  
**Project Number** F03-026

**Group #:** WSCF20050507

**Sample #**   **Client ID**   **Lab Area**   **Test**   **Comment**

VALGROUP

VOA: Toluene in sample W050000834, in sample at a level less than in the blank due to carryover from a recently ran waste sample. A J-flag of a target compound indicates that it was found at concentration less than the concentration of the lowest calibration standard but greater than the detection limit. Toluene in LCS out high due to carryover from previous concentrated waste sample.  
X-flag indicates target likely to be artifact. gar

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

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wgppc/1    Report #: WSCF20050507    Report Date: 31-mar-2005

**WSCF**  
**TENTATIVELY IDENTIFIED PEAK REPORT**

Attention: Project Number : Group #: 20050507

Sample #	Client ID	Test Name	Peak Name	CAS#	RT	RQ	Result	Units
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RQ = Result Qualifier

This report may not be reproduced, except in its entirety without the written approval of the WSCF Laboratory.

WGPE v 1.1 Report #: 20050507

Report Date: 31-mar-2005

Page 1

# 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.

<b>LA-523-455</b>	<b>LA-523-455: VOLATILE SAMPLE ANALYSIS BY SW-846</b>
<b>EPA SW-846 8000B</b>	<b>DETERMINATIVE CHROMATOGRAPHIC SEPARATIONS</b>
<b>EPA SW-846 8260B</b>	<b>VOLATILE ORGANIC COMPOUNDS BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)</b>

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

Report Date: 31-mar-2005  
Report#: WSCF20050507  
Report WGPPM/O

w13qlog v1 31-mar-2005 06:41:05

W13q Worklist/Batch/QC Report for Group# WSCF20050507

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
			29296	BLANK		VOA Ground Water Protection
			29296	LCS		VOA Ground Water Protection
			29296	MS	W050000764	VOA Ground Water Protection
			29296	MSD	W050000764	VOA Ground Water Protection
			29296	SPK-RPD	W050000764	VOA Ground Water Protection
			29296	SAMPLE	W050000834	VOA Ground Water Protection
			29296	SURR	W050000834	VOA Ground Water Protection

M8141-SLF-05-162

ATTACHMENT 3

**SAMPLE RECEIPT INFORMATION**

Consisting of 3 pages  
Including cover page

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

*File*  
*4/4/05*  
*KB*

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program

Richland, WA 99354  
 Attn: Steve Trent

Customer Code: GPP  
 PO#: 119143/ES10  
 Group#: 20050507  
 Project#: F03-026  
 Proj Mgr: Steve Trent  
 Phone: 373-5869

A0-21

The following samples were received from you on 03/03/05. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
W050000834	B1BX45	TRENT @VOA-GPP	Water	03/03/05

Test Acronym Description

Test Acronym	Description
@VOA-GPP	VOA Ground Water Protection — <i>Add n-butyl benzene (Add on)</i> <i>POM 3/2/05</i> <i>P.D.M.K.</i>

