

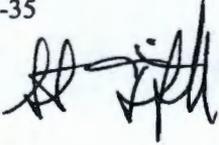
RECEIVED AUGUST 26, 2008

Fluor Hanford
 WSCF Analytical Lab
 P.O. Box 1000
 Richland, WA 99352
 Telephone 373-7495
 Telefax 372-0456

FLUOR**Memorandum**

M4W41-SLF-08-905

To: H. Hampt E6-35 Date: August 26, 2008

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

cc: w/Attachments

| | | | |
|-----------------|-------|----------------|-------|
| T. F. Dale | S3-30 | J. E. Trechter | S3-30 |
| A. J. Kopriva | S3-30 | S. J. Trent | E6-35 |
| H. K. Meznarich | S3-30 | File/LB | |
| P. D. Mix | S3-30 | | |

Subject: FINAL RESULTS FOR SAMPLE DELIVERY GROUP WSCF20081467 - SAF NUMBER F08-103

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

(2) HNF-SD-CD-QAPP-017, Rev. 9, Waste Sampling & Characterization Facility Quality Assurance Plan

This letter contains the following attachments for sample delivery group WSCF20081467:

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

SLF/grf

Attachments 4

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M4W41-SLF-08-905

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20081467
Data Deliverable Date: 29-aug-2008
Data Deliverable: Cover Sheet

| SAF# | Sample ID | WSCF# | Matrix |
|---------|-----------|------------|--------|
| F08-103 | B1V575 | W08GR02618 | WATER |

M4W41-SLF-08-905

ATTACHMENT 2

NARRATIVE

Consisting of 2 pages
Including cover page

Introduction

One S&GRP sample was received at the WSCF Laboratory on July 16, 2008. This 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 2) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 3) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information as applicable. Copies of the chain of custody and sample receipt documentation are included as Attachment 4.

It should be noted that the attached chain of custody was stamped “ICED” by the WSCF Laboratory Sample Custodian during sample receiving, indicating the presence of ice in the sample container.

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report*, page 9, for a complete listing of approved analytical methods.

Organic Comments

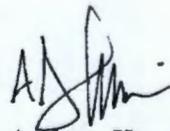
VOA – The hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per the GRP Letter of Instruction. See pages 12 through 14 for QC details.

All QC controls are within the established limits.

I certify that this data package is in compliance with the LOI, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager and Client Services as verified by the following signatures.



Scot L. Fitzgerald
WSCF Analytical Laboratory Manager



Andrew Kopriva
WSCF Client Services

M4W41-SLF-08-905

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 9 pages
Including cover page

**WSCF
ANALYTICAL RESULTS REPORT**

for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical:

S. Fitzgerald 8/26/08

Client Services:

A. Kopriva 8/26/08

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

This information is intended for the use of the addressee only. If the reader of this report is not the intended recipient or is not authorized by the recipient to receive the report, you are hereby notified that any dissemination, distribution or copying of this report is strictly prohibited. If you have received this report in error, please notify WSCF Laboratory immediately by telephone at (509) 373-7020 or (509) 531-8004. Information designation of this report is the responsibility of the customer.

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

Report#: WSCF20081467

Report Date: 26-aug-2008

Report WGPP/ver. 5.2

Groundwater Remediation Program

Department: Organic

W13q Worklist/Batch/QC Report for Group# WSCF20081467

| WL# | S# | Batch | QC# | Tray Type | Sample# | Test |
|-----|----|-------|-------|-----------|------------|-----------------------------|
| | | | 42534 | BLANK | | VOA Ground Water Protection |
| | | | 42534 | LCS | | VOA Ground Water Protection |
| | | | 42534 | MS | W08GR02594 | VOA Ground Water Protection |
| | | | 42534 | MSD | W08GR02594 | VOA Ground Water Protection |
| | | | 42534 | SPK-RPD | W08GR02594 | VOA Ground Water Protection |
| | | | 42534 | SAMPLE | W08GR02618 | VOA Ground Water Protection |
| | | | 42534 | SURR | W08GR02618 | VOA Ground Water Protection |

WSCF

METHOD REFERENCES REPORT

Department: Organic

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory or industry methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though the WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

| | |
|---------------------------|---|
| LA-523-455 | LA-523-455: VOLATILE SAMPLE ANALYSIS BY SW-846 |
| EPA SW-846 8000B | DETERMINATIVE CHROMATOGRAPHIC SEPARATIONS |
| EPA SW-846 8260B | VOLATILE ORGANIC COMPOUNDS BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS) |
| HEIS 8260_VOA_GCMS | Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) |

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

Report Date: 26-aug-2008

Report#: WSCF20081467

Report WGPPM/5.2

9 of 17

Page 1

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-103
Sample # W08GR02618
Client ID: B1V575

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081467
Department: Organic
Sampled: 07/16/08
Received: 07/16/08

| Test Performed | CAS # | Method | RQ | Result | Unit | TP Err | Unit | DF | MDL | PQL | Analysis Date |
|------------------------------------|------------|------------|----|--------|------|--------|------|------|-----|-----|---------------|
| VOA Ground Water Protection | | | | | | | | | | | |
| 1,1-Dichloroethene | 75-35-4 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| Trichloroethene | 79-01-6 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| Benzene | 71-43-2 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| Toluene | 108-88-3 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| Chlorobenzene | 108-90-7 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| 1,1-Dichloroethane | 75-34-3 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| Ethylbenzene | 100-41-4 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| Styrene | 100-42-5 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| cis-1,3-Dichloropropene | 10061-01-5 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| trans-1,3-Dichloropropene | 10061-02-6 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| 1,2-Dichloroethane | 107-06-2 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| 4-Methyl-2-Pentanone | 108-10-1 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| Dibromochloromethane | 124-48-1 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| Tetrachloroethene | 127-18-4 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| Xylenes (total) | 1330-20-7 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| 1,2-Dichloroethene(Total) | 540-59-0 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| Carbon tetrachloride | 56-23-5 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| 2-Hexanone | 591-78-6 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| Acetone | 67-64-1 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| Chloroform | 67-66-3 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| 1,1,1-Trichloroethane | 71-55-6 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| Bromomethane | 74-83-9 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| Chloromethane | 74-87-3 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |

MDL=Minimum Detection Limit

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

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-103
Sample # W08GR02618
Client ID: B1V575

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081467
Department: Organic
Sampled: 07/16/08
Received: 07/16/08

| Test Performed | CAS # | Method | RQ | Result | Unit | TP Err | Unit | DF | MDL | PQL | Analysis Date |
|----------------------------|----------|------------|----|--------|------|--------|------|------|---------|-----|---------------|
| Chloroethane | 75-00-3 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| Vinyl chloride | 75-01-4 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| Methylenechloride | 75-09-2 | LA-523-455 | | 6.50 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| Carbon disulfide | 75-15-0 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| Bromoform | 75-25-2 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| Bromodichloromethane | 75-27-4 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| 1,2-Dichloropropane | 78-87-5 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| 2-Butanone | 78-93-3 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| 1,1,2-Trichloroethane | 79-00-5 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| 1-Butanol | 71-36-3 | LA-523-455 | U | < 100 | ug/L | | | 1.00 | 1.0e+02 | | 07/23/08 |
| Trichloromonofluoromethane | 75-69-4 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| n-Butylbenzene | 104-51-8 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| trans-1,2-Dichloroethylene | 156-60-5 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |
| cis-1,2-Dichloroethylene | 156-59-2 | LA-523-455 | U | < 1.00 | ug/L | | | 1.00 | 1.0 | | 07/23/08 |

MDL=Minimum Detection Limit

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

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20081467
 Matrix: WATER
 Test: VOA Ground Water Protection

Sample Date: 07/11/08
 Receive Date: 07/15/08

| QC Type | Analyte | CAS # | QC Found | QC Yield | Units | Lower Limit | Upper Limit | RPD(%) | RPD Limit | RQ | Analysis Date |
|--|-----------------------------|------------|----------|----------|---------|-------------|-------------|--------|-----------|----|---------------|
| Lab ID: W08GR02594 | | | | | | | | | | | |
| BATCH QC ASSOCIATED WITH SAMPLE | | | | | | | | | | | |
| MS | 1,1-Dichloroethene | 75-35-4 | 27.340 | 109.000 | % Recov | 63.000 | 117.000 | | | | 07/23/08 |
| MS | Benzene | 71-43-2 | 26.050 | 104.000 | % Recov | 75.000 | 129.000 | | | | 07/23/08 |
| MS | 4-Bromofluorobenzene(Surr) | 460-00-4 | 51.670 | 103.000 | % Recov | 75.000 | 125.000 | | | | 07/23/08 |
| MS | Chlorobenzene | 108-90-7 | 26.710 | 107.000 | % Recov | 79.000 | 119.000 | | | | 07/23/08 |
| MS | 1,2-Dichloroethane-d4(Surr) | 17060-07-0 | 56.920 | 114.000 | % Recov | 75.000 | 125.000 | | | | 07/23/08 |
| MS | Toluene-d8(Surr) | 2037-26-5 | 49.420 | 98.800 | % Recov | 75.000 | 125.000 | | | | 07/23/08 |
| MS | Toluene | 108-88-3 | 27.800 | 110.000 | % Recov | 76.000 | 120.000 | | | | 07/23/08 |
| MS | Trichloroethene | 79-01-6 | 24.160 | 96.600 | % Recov | 73.000 | 123.000 | | | | 07/23/08 |
| MSD | 1,1-Dichloroethene | 75-35-4 | 28.510 | 114.000 | % Recov | 63.000 | 117.000 | | | | 07/23/08 |
| MSD | Benzene | 71-43-2 | 24.680 | 98.700 | % Recov | 75.000 | 129.000 | | | | 07/23/08 |
| MSD | 4-Bromofluorobenzene(Surr) | 460-00-4 | 51.030 | 102.000 | % Recov | 75.000 | 125.000 | | | | 07/23/08 |
| MSD | Chlorobenzene | 108-90-7 | 25.780 | 103.000 | % Recov | 79.000 | 119.000 | | | | 07/23/08 |
| MSD | 1,2-Dichloroethane-d4(Surr) | 17060-07-0 | 56.060 | 112.000 | % Recov | 75.000 | 125.000 | | | | 07/23/08 |
| MSD | Toluene-d8(Surr) | 2037-26-5 | 49.460 | 98.900 | % Recov | 75.000 | 125.000 | | | | 07/23/08 |
| MSD | Toluene | 108-88-3 | 26.120 | 104.000 | % Recov | 76.000 | 120.000 | | | | 07/23/08 |
| MSD | Trichloroethene | 79-01-6 | 21.930 | 87.700 | % Recov | 73.000 | 123.000 | | | | 07/23/08 |
| SPK-RPD | 1,1-Dichloroethene | 75-35-4 | 114.000 | | RPD | | | 4.484 | 20.000 | | 07/23/08 |
| SPK-RPD | Benzene | 71-43-2 | 98.700 | | RPD | | | 5.229 | 20.000 | | 07/23/08 |
| SPK-RPD | 4-Bromofluorobenzene(Surr) | 460-00-4 | 102.000 | | RPD | | | 0.976 | 20.000 | | 07/23/08 |
| SPK-RPD | Chlorobenzene | 108-90-7 | 103.000 | | RPD | | | 3.810 | 20.000 | | 07/23/08 |
| SPK-RPD | 1,2-Dichloroethane-d4(Surr) | 17060-07-0 | 112.000 | | RPD | | | 1.770 | 20.000 | | 07/23/08 |
| SPK-RPD | Toluene-d8(Surr) | 2037-26-5 | 98.900 | | RPD | | | 0.101 | 20.000 | | 07/23/08 |
| SPK-RPD | Toluene | 108-88-3 | 104.000 | | RPD | | | 5.607 | 20.000 | | 07/23/08 |
| SPK-RPD | Trichloroethene | 79-01-6 | 87.700 | | RPD | | | 9.658 | 20.000 | | 07/23/08 |

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20081467
 Matrix: WATER
 Test: VOA Ground Water Protection

Sample Date: 07/16/08
 Receive Date: 07/16/08

| QC Type | Analyte | CAS # | QC Found | QC Yield | Units | Lower Limit | Upper Limit | RPD(%) | RPD Limit | RQ | Analysis Date |
|---------|---------|-------|----------|----------|-------|-------------|-------------|--------|-----------|----|---------------|
|---------|---------|-------|----------|----------|-------|-------------|-------------|--------|-----------|----|---------------|

Lab ID: W08GR02618
BATCH QC ASSOCIATED WITH SAMPLE

| | | | | | | | | | | | |
|------|-----------------------------|------------|--------|---------|---------|--------|---------|--|--|--|----------|
| SURR | 4-Bromofluorobenzene(Surr) | 460-00-4 | 51.870 | 104.000 | % Recov | 75.000 | 125.000 | | | | 07/23/08 |
| SURR | 1,2-Dichloroethane-d4(Surr) | 17060-07-0 | 57.460 | 115.000 | % Recov | 75.000 | 125.000 | | | | 07/23/08 |
| SURR | Toluene-d8(Surr) | 2037-26-5 | 50.170 | 100.000 | % Recov | 75.000 | 125.000 | | | | 07/23/08 |

BATCH QC

| | | | | | | | | | | | |
|-------|----------------------------|----------|--------|---------|---------|--------|---------|--|--|---|----------|
| BLANK | 1,1-Dichloroethane | 75-34-3 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | 1,1,1-Trichloroethane | 71-55-6 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | n/a | ug/L | 0.000 | 5.000 | | | U | 07/23/08 |
| BLANK | 1,1-Dichloroethene | 75-35-4 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | 1,2-Dichloroethane | 107-06-2 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | 1,2-Dichloroethene(Total) | 540-59-0 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | 1-Butanol | 71-36-3 | < 100 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | 2-Hexanone | 591-78-6 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | 4-Methyl-2-Pentanone | 108-10-1 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | Acetone | 67-64-1 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | Bromodichloromethane | 75-27-4 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | Benzene | 71-43-2 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | 4-Bromofluorobenzene(Surr) | 460-00-4 | 52.080 | 104.000 | % Recov | 75.000 | 125.000 | | | | 07/23/08 |
| BLANK | Bromoform | 75-25-2 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | n-Butylbenzene | 104-51-8 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | Carbon disulfide | 75-15-0 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | Carbon tetrachloride | 56-23-5 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | Dibromochloromethane | 124-48-1 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | Chloroform | 67-68-3 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | Chlorobenzene | 108-90-7 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | cis-1,2-Dichloroethylene | 156-59-2 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: WSCF20081467
 Matrix: WATER
 Test: VOA Ground Water Protection

Sample Date:
 Receive Date:

| QC Type | Analyte | CAS # | QC Found | QC Yield | Units | Lower Limit | Upper Limit | RPD(%) | RPD Limit | RQ | Analysis Date |
|---------|-----------------------------|------------|----------|----------|---------|-------------|-------------|--------|-----------|----|---------------|
| BLANK | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | Chloroethane | 75-00-3 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | 1,2-Dichloroethane-d4(Surr) | 17060-07-0 | 56.990 | 114.000 | % Recov | 75.000 | 125.000 | | | | 07/23/08 |
| BLANK | trans-1,2-Dichloroethylene | 156-60-5 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | 1,2-Dichloropropane | 78-87-5 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | Ethylbenzene | 100-41-4 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | Bromomethane | 74-83-9 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | Chloromethane | 74-87-3 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | 2-Butanone | 78-93-3 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | Methylenechloride | 75-09-2 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | Tetrachloroethene | 127-18-4 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | Styrene | 100-42-5 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | Xylenes (total) | 1330-20-7 | < 1.0 | n/a | ug/L | 0.000 | 5.000 | | | U | 07/23/08 |
| BLANK | Toluene-d8(Surr) | 2037-26-5 | 50.150 | 100.000 | % Recov | 75.000 | 125.000 | | | | 07/23/08 |
| BLANK | Toluene | 108-88-3 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | Trichloromonofluoromethane | 75-69-4 | < 1.0 | n/a | ug/L | 0.000 | 5.000 | | | U | 07/23/08 |
| BLANK | Trichloroethene | 79-01-6 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| BLANK | Vinyl chloride | 75-01-4 | < 1.0 | n/a | ug/L | | | | | U | 07/23/08 |
| LCS | 1,1-Dichloroethene | 75-35-4 | 28.810 | 115.000 | % Recov | 75.000 | 125.000 | | | | 07/24/08 |
| LCS | Benzene | 71-43-2 | 27.800 | 111.000 | % Recov | 75.000 | 125.000 | | | | 07/24/08 |
| LCS | 4-Bromofluorobenzene(Surr) | 460-00-4 | 50.320 | 101.000 | % Recov | 75.000 | 125.000 | | | | 07/24/08 |
| LCS | Chlorobenzene | 108-90-7 | 27.840 | 111.000 | % Recov | 75.000 | 125.000 | | | | 07/24/08 |
| LCS | 1,2-Dichloroethane-d4(Surr) | 17060-07-0 | 55.760 | 112.000 | % Recov | 75.000 | 125.000 | | | | 07/24/08 |
| LCS | Toluene-d8(Surr) | 2037-26-5 | 50.520 | 101.000 | % Recov | 75.000 | 125.000 | | | | 07/24/08 |
| LCS | Toluene | 108-88-3 | 28.000 | 112.000 | % Recov | 75.000 | 125.000 | | | | 07/24/08 |
| LCS | Trichloroethene | 79-01-6 | 23.300 | 93.200 | % Recov | 75.000 | 125.000 | | | | 07/24/08 |

M4W41-SLF-08-905

ATTACHMENT 4

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
08/29/08
TJ

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 123513/ES10
Group#: 20081467
Project#: F08-103
Proj Mgr: Steve Trent E6-35
Phone: 373-5869

The following samples were received from you on 07/16/08. 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 |
|------------|-----------|-------------------|--------|-------------|
| W08GR02618 | B1V575 | TRENT @VOA-GPP | Water | 07/16/08 |

Test Acronym Description

| Test Acronym | Description |
|--------------|-----------------------------|
| @VOA-GPP | VOA Ground Water Protection |

Fluor Hanford Inc. 8/29/08

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-103-004

PAGE 1 OF 1

COLLECTOR Kevin Patterson
NCO SAMPLER Fluor Hanford

COMPANY CONTACT
TRENT, SJ

TELEPHONE NO.
373-5869

PROJECT COORDINATOR
TRENT, SJ

PRICE CODE 7N

DATA
TURNAROUND
45 Days / 45
Days

SAMPLING LOCATION
C5989, I-135-FB

PROJECT DESIGNATION
200-BP-5 OU Characterization for "C" Well - QC Sampling

SAF NO.
F08-103

AIR QUALITY

ICE CHEST NO.

FIELD LOGBOOK NO. HNF-N-585-6
ACTUAL SAMPLE DEPTH 265'

COA
123513ES10

METHOD OF SHIPMENT
GOVERNMENT VEHICLE

SHIPPED TO
Waste Sampling & Characterization 20081467

OFFSITE PROPERTY NO.
N/A

BILL OF LADING/AIR BILL NO.
N/A

MATRIX* POSSIBLE SAMPLE HAZARDS/ REMARKS
A=Air Contains Radioactive Material at concentrations
DL=Drum Liquids that are not regulated for transportation per 49
DS=Drum Solids CFR but are not releasable per DOE Order
L=Liquid 5400.5 (1990/1993)
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

PRESERVATION HCl or H2SO4
to pH
<2/Coolest AC

TYPE OF CONTAINER aGs*

NO. OF CONTAINER(S) 4

VOLUME 40mL

SPECIAL HANDLING AND/OR STORAGE

SAMPLE ANALYSIS SEE ITEM (1) IN
SPECIAL
INSTRUCTIONS

103
CED

| SAMPLE NO. | MATRIX* | SAMPLE DATE | SAMPLE TIME |
|----------------------|---------|-------------|-------------|
| B1V575 W08G202618 | WATER | 7/16/08 | 6900 ✓ |

813901

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM 1030
[Signature] JUL 16 2008
RELINQUISHED BY/REMOVED FROM
[Signature] 7/16/08 1050
RELINQUISHED BY/REMOVED FROM

RECEIVED BY/STORED IN [Signature] JUL 16 2008 1030
RECEIVED BY/STORED IN [Signature] 7/16/08 1050
RECEIVED BY/STORED IN

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
(1)VOA - 8260B (TCL); VOA - 8260B (Add-On) {1-Butanol, Trichloromonofluoromethane, cis-1,2-Dichloroethylene, n-Butylbenzene, trans-1,2-Dichloroethylene}

RELINQUISHED BY/REMOVED FROM DATE/TIME

RECEIVED BY/STORED IN DATE/TIME

LABORATORY SECTION RECEIVED BY

TITLE DATE/TIME

FINAL SAMPLE DISPOSITION DISPOSAL METHOD

DISPOSED BY DATE/TIME

17
OF
17