# Data Validation Package

## April 2009
## Groundwater and Surface Water Sampling at the Salmon, Mississippi, Site

**August 2009**

U.S. DEPARTMENT OF ENERGY | Legacy Management

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# Sampling Event Summary

**Site:** Salmon, Mississippi, Site

**Sampling Period:** April 14-16, 2009

The *Long-Term Surveillance and Maintenance Plan for the Salmon Site, Lamar County, Mississippi, Revision 1* (Draft), requires annual on-site groundwater monitoring from 28 locations to confirm that residual concentrations of organics, metals, and tritium attenuate as expected. Eleven surface water locations were also sampled to verify that discharge of shallow contaminated groundwater is not adversely affecting surface water leaving the site.

Sampling and analysis was conducted as specified in the *Sampling and Analysis Plan for U.S. Department of Energy Office of Legacy Management Sites*. Duplicate samples were collected from locations HM-S and SA1-3-H. One trip blank was collected during this sampling event.

This report includes data for metals and volatile organic compounds analyzed by ALS Laboratory Group under requisition index number (RIN) 09032192, and for tritium and gamma-emitting nuclide analyses by the Environmental Protection Agency's (EPA) Radiation and Indoor Environments National Laboratory (Las Vegas, Nevada) under RIN 09032193.

Concentrations of contaminants of concern exceeding respective standards, the drinking water maximum contaminant level (MCL), are provided in Table 1. On-site sample locations are shown on Page 2. All concentrations are expressed in milligrams per liter (mg/L).

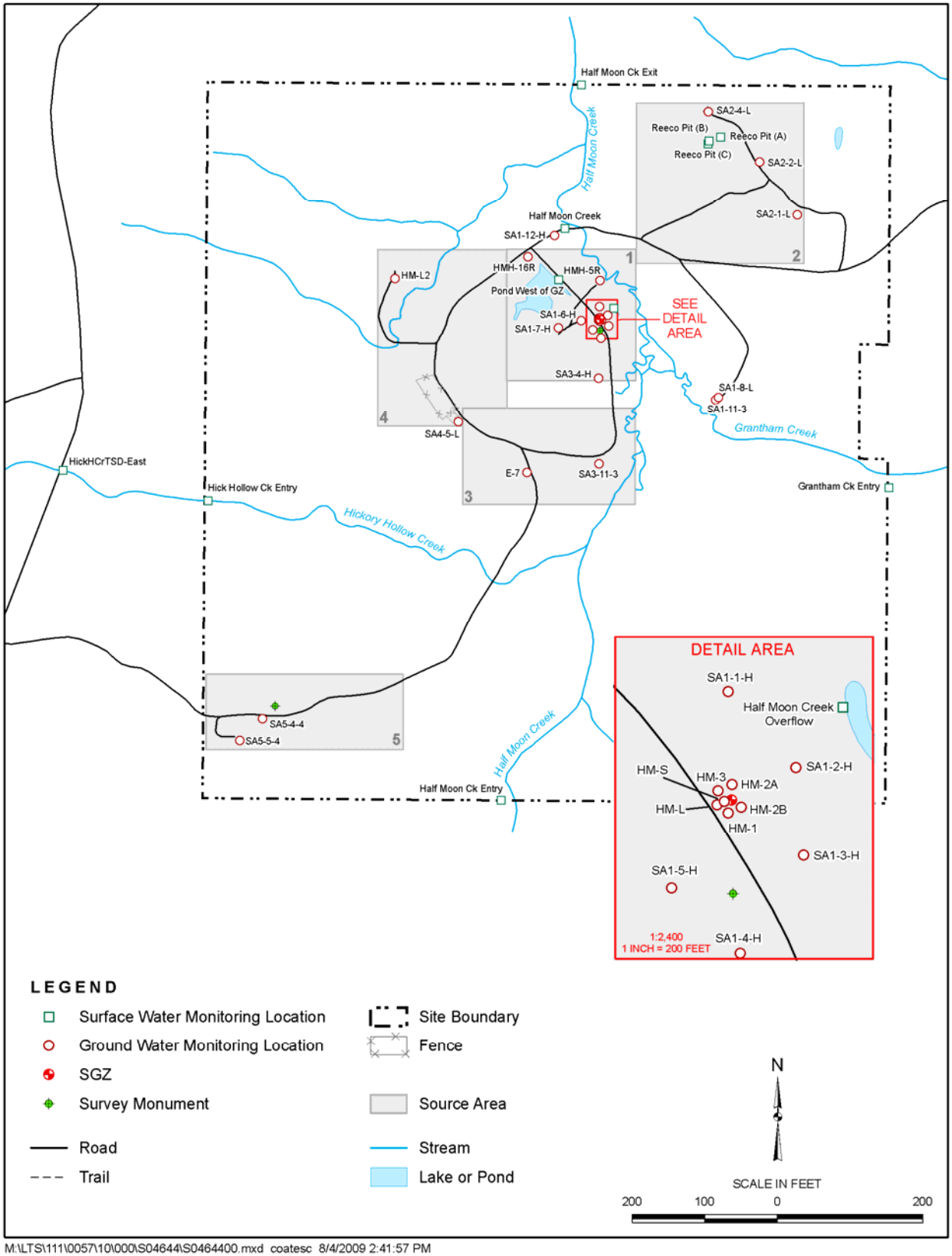
*Table 1. Analytical Results Exceeding MCL for Sampled Wells*

| Analyte | MCL (mg/L) | Location | Result (mg/L) |
|---|---|---|---|
| Arsenic | 0.010 | SA1-3-H | 0.014 |
| Barium | 2.000 | SA4-5-L | 2.700 |
| Chromium | 0.100 | HM-3 | 0.110 |
| *cis*-1,2-Dichloroethene | 0.070 | HMH-5R | 0.073 |
| Trichloroethene | 0.005 | HMH-5R | 0.170 |

Time-concentration graphs are included for tritium concentrations in on-site groundwater monitor wells. In wells where tritium is detectable, the tritium concentration is trending downward due to dilution and radioactive decay.

Jack Duray
Site Lead, S.M. Stoller

5 August 2009
Date




*Water Sampling Locations at the Salmon, Mississippi, Site*

# Data Assessment Summary

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# Water Sampling Field Activities Verification Checklist

| | | | |
|---|---|---|---|
| **Project** | Salmon, Mississippi | **Date(s) of Water Sampling** | April 14-16, 2009 |
| **Date(s) of Verification** | July 22, 2009 | **Name of Verifier** | Steve Donivan |

| | Response (Yes, No, NA) | Comments |
|---|---|---|
| 1. Is the SAP the primary document directing field procedures? | Yes | |
| List other documents, SOPs, instructions. | | Work Order Letter dated March 10, 2009 |
| 2. Were the sampling locations specified in the planning documents sampled? | Yes | |
| 3. Was a pre-trip calibration conducted as specified in the above-named documents? | Yes | |
| 4. Was an operational check of the field equipment conducted daily? | Yes | |
| Did the operational checks meet criteria? | Yes | |
| 5. Were the number and types (alkalinity, temperature, specific conductance, pH, turbidity, DO, ORP) of field measurements taken as specified? | Yes | |
| 6. Was the category of the well documented? | Yes | |
| 7. Were the following conditions met when purging a Category I well: | | |
| Was one pump/tubing volume purged prior to sampling? | Yes | |
| Did the water level stabilize prior to sampling? | Yes | |
| Did pH, specific conductance, and turbidity measurements stabilize prior to sampling? | No | The turbidity criteria was not met at well SA1-6-H; sample was filtered. |
| Was the flow rate less than 500 mL/min? | Yes | |
| If a portable pump was used, was there a 4-hour delay between pump installation and sampling? | NA | |

# Water Sampling Field Activities Verification Checklist (continued)

| | Response (Yes, No, NA) | Comments |
|---|---|---|
| 8. Were the following conditions met when purging a Category II well: | | |
| Was the flow rate less than 500 mL/min? | Yes | |
| Was one pump/tubing volume removed prior to sampling? | Yes | |
| 9. Were duplicates taken at a frequency of one per 20 samples? | Yes | Duplicate samples were collected from locations HM-S and SA1-3-H. |
| 10. Were equipment blanks taken at a frequency of one per 20 samples that were collected with nondedicated equipment? | Yes | |
| 11. Were trip blanks prepared and included with each shipment of VOC samples? | Yes | |
| 12. Were QC samples assigned a fictitious site identification number? | Yes | |
| Was the true identity of the samples recorded on the Quality Assurance Sample Log or in the Field Data Collection System (FDCS) report? | Yes | |
| 13. Were samples collected in the containers specified? | Yes | |
| 14. Were samples filtered and preserved as specified? | Yes | |
| 15. Were the number and types of samples collected as specified? | Yes | |
| 16. Were chain of custody records completed and was sample custody maintained? | Yes | |
| 17. Are field data sheets signed and dated by both team members (hardcopies) or are dates present for the “Date Signed” fields (FDCS)? | Yes | |
| 18. Was all other pertinent information documented on the field data sheets? | Yes | |
| 19. Was the presence or absence of ice in the cooler documented at every sample location? | Yes | |
| 20. Were water levels measured at the locations specified in the planning documents? | Yes | Before collection of each water sample and all wells serially after the last water sample was collected. |

## Laboratory Performance Assessment

General Information

| | |
|---|---|
| RIN: | 09032192 |
| Sample Event: | April 14−16, 2009 |
| Site(s): | Salmon, Mississippi |
| Laboratory: | ALS Laboratory Group, Fort Collins, Colorado |
| Work Order No.: | 0904158 |
| Analysis: | Metals and Organics |
| Validator: | Steve Donivan |
| Review Date: | May 26, 2009 |

This validation was performed according to the *Environmental Procedures Catalog* (LMS/PRO/S04325) "Standard Practice for Validation of Laboratory Samples." The procedure was applied at Level 3, Data Validation. See attached Data Validation Worksheets for supporting documentation on the data review and validation. All analyses were successfully completed. The samples were prepared and analyzed using accepted procedures based on methods specified by line item code, which are listed in Table 2.

*Table 2. Analytes and Methods*

| Analyte | Line Item Code | Prep Method | Analytical Method |
|---|---|---|---|
| Metals: Ag, Ba, Be, Cr, Hg, Ni, Zn | LMM-01 | SW-846 3005 | SW-846 6010B, 7470A |
| Metals: As, Sb, Cd, Pb, Se | LMM-02 | SW-846 3005 | SW-846 6020 |
| Volatile Organics, VOAs | LMV-05 | SW-846 5030C | SW-846 8260B |

Data Qualifier Summary

Analytical results were qualified as listed in Table 3. Refer to the sections below for an explanation of the data qualifiers applied.

Sample Shipping/Receiving

ALS Laboratory Group in Fort Collins, Colorado, received 36 water samples on April 21, 2009, accompanied by a Chain of Custody (COC) form. The COC form was checked to confirm that all of the samples were listed on a form with sample collection dates and times, and that signatures and dates were present indicating sample relinquishment and receipt. The COC form was complete with no errors or omissions with the following exceptions. The equipment blank (location ID 2758) was not listed on the COC form. The duplicate sample from location HM-S was labeled with a location ID of 2589 but listed on the COC form with a location ID of 2594. A copy of the air waybill receipt was included with the receiving documentation. One of the two sample coolers arrived on April 18, 2009. The second cooler containing the metals analysis bottles arrived on April 21, 2009.

*Table 3. Data Qualifier Summary*

| Sample Number | Location | Analyte(s) | Flag | Reason |
|---|---|---|---|---|
| All | All | Selenium | U | Less than 5 times the calibration blank |
| 0904158-1 | Trip Blank | Methylene Chloride | U | Less than 5 times the method blank |
| 0904158-2 | HM-S Duplicate | Arsenic | U | Less than 5 times the method blank |
| 0904158-2 | HM-S Duplicate | Beryllium | U | Less than 5 times the method blank |
| 0904158-2 | HM-S Duplicate | Chromium | U | Less than 5 times the calibration blank |
| 0904158-2 | HM-S Duplicate | Lead | U | Less than 5 times the method blank |
| 0904158-2 | HM-S Duplicate | Zinc | U | Less than 5 times the method blank |
| 0904158-3 | SA1-3-H Duplicate | Beryllium | U | Less than 5 times the method blank |
| 0904158-3 | SA1-3-H Duplicate | Lead | U | Less than 5 times the method blank |
| 0904158-5 | Grantham Cr Entry | Arsenic | U | Less than 5 times the method blank |
| 0904158-5 | Grantham Cr Entry | Beryllium | U | Less than 5 times the method blank |
| 0904158-5 | Grantham Cr Entry | Chromium | U | Less than 5 times the calibration blank |
| 0904158-5 | Grantham Cr Entry | Lead | U | Less than 5 times the method blank |
| 0904158-5 | Grantham Cr Entry | Zinc | U | Less than 5 times the method blank |
| 0904158-6 | Half Moon Ck Entry | Arsenic | U | Less than 5 times the method blank |
| 0904158-6 | Half Moon Ck Entry | Beryllium | U | Less than 5 times the method blank |
| 0904158-6 | Half Moon Ck Entry | Lead | U | Less than 5 times the method blank |
| 0904158-7 | Half Moon Ck Exit | Arsenic | U | Less than 5 times the method blank |
| 0904158-7 | Half Moon Ck Exit | Chromium | U | Less than 5 times the calibration blank |
| 0904158-7 | Half Moon Ck Exit | Lead | U | Less than 5 times the method blank |
| 0904158-7 | Half Moon Ck Exit | Zinc | U | Less than 5 times the method blank |
| 0904158-8 | HALFMOON CREEK | Arsenic | U | Less than 5 times the method blank |
| 0904158-8 | HALFMOON CREEK | Cadmium | U | Less than 5 times the calibration blank |
| 0904158-8 | HALFMOON CREEK | Lead | U | Less than 5 times the method blank |
| 0904158-9 | HALFMOONCRKOVERFLOW | Cadmium | U | Less than 5 times the calibration blank |
| 0904158-9 | HALFMOONCRKOVERFLOW | Lead | U | Less than 5 times the method blank |
| 0904158-10 | HickHCrTSD-east | Arsenic | U | Less than 5 times the method blank |
| 0904158-10 | HickHCrTSD-east | Cadmium | U | Less than 5 times the calibration blank |
| 0904158-10 | HickHCrTSD-east | Lead | U | Less than 5 times the method blank |
| 0904158-10 | HickHCrTSD-east | Zinc | U | Less than 5 times the method blank |
| 0904158-11 | Hickory Hollow Ck Entry | Arsenic | U | Less than 5 times the method blank |
| 0904158-11 | Hickory Hollow Ck Entry | Cadmium | U | Less than 5 times the calibration blank |
| 0904158-11 | Hickory Hollow Ck Entry | Zinc | U | Less than 5 times the method blank |
| 0904158-12 | HM-3 | Cadmium | U | Less than 5 times the calibration blank |
| 0904158-12 | HM-3 | Lead | U | Less than 5 times the method blank |
| 0904158-12 | HM-3 | Zinc | U | Less than 5 times the method blank |
| 0904158-13 | HMH-16R | Arsenic | U | Less than 5 times the method blank |
| 0904158-13 | HMH-16R | Cadmium | U | Less than 5 times the calibration blank |
| 0904158-13 | HMH-16R | Lead | U | Less than 5 times the method blank |
| 0904158-14 | HMH-5R | Cadmium | U | Less than 5 times the calibration blank |
| 0904158-14 | HMH-5R | Lead | U | Less than 5 times the method blank |
| 0904158-14 | HMH-5R | Zinc | U | Less than 5 times the method blank |
| 0904158-15 | HM-L | Lead | U | Less than 5 times the method blank |
| 0904158-16 | HM-L2 | Arsenic | U | Less than 5 times the method blank |
| 0904158-16 | HM-L2 | Cadmium | U | Less than 5 times the calibration blank |

*Table 3 (continued). Data Qualifier Summary*

| Sample Number | Location | Analyte(s) | Flag | Reason |
|---|---|---|---|---|
| 0904158-16 | HM-L2 | Lead | U | Less than 5 times the method blank |
| 0904158-17 | HM-S | Arsenic | U | Less than 5 times the method blank |
| 0904158-17 | HM-S | Beryllium | U | Less than 5 times the method blank |
| 0904158-17 | HM-S | Cadmium | U | Less than 5 times the calibration blank |
| 0904158-17 | HM-S | Lead | U | Less than 5 times the method blank |
| 0904158-18 | Pond West of GZ | Beryllium | U | Less than 5 times the method blank |
| 0904158-18 | Pond West of GZ | Cadmium | U | Less than 5 times the calibration blank |
| 0904158-18 | Pond West of GZ | Lead | U | Less than 5 times the method blank |
| 0904158-19 | Reeco Pit (A) | Arsenic | U | Less than 5 times the method blank |
| 0904158-19 | Reeco Pit (A) | Cadmium | U | Less than 5 times the calibration blank |
| 0904158-19 | Reeco Pit (A) | Lead | U | Less than 5 times the method blank |
| 0904158-20 | Reeco Pit (B) | Lead | U | Less than 5 times the method blank |
| 0904158-21 | Reeco Pit (C) | Cadmium | U | Less than 5 times the calibration blank |
| 0904158-21 | Reeco Pit (C) | Lead | U | Less than 5 times the method blank |
| 0904158-22 | SA1-12-H | Arsenic | U | Less than 5 times the method blank |
| 0904158-22 | SA1-12-H | Cadmium | U | Less than 5 times the calibration blank |
| 0904158-22 | SA1-12-H | Lead | U | Less than 5 times the method blank |
| 0904158-23 | SA1-1-H | Cadmium | U | Less than 5 times the calibration blank |
| 0904158-23 | SA1-1-H | Chromium | J | Negative calibration blank |
| 0904158-23 | SA1-1-H | Lead | U | Less than 5 times the method blank |
| 0904158-23 | SA1-1-H | Nickel | J | Negative calibration blank |
| 0904158-24 | SA1-2-H | Chromium | J | Negative calibration blank |
| 0904158-24 | SA1-2-H | Lead | U | Less than 5 times the calibration blank |
| 0904158-25 | SA1-3-H | Chromium | J | Negative calibration blank |
| 0904158-26 | SA1-4-H | Chromium | J | Negative calibration blank |
| 0904158-27 | SA1-5-H | Chromium | J | Negative calibration blank |
| 0904158-27 | SA1-5-H | Lead | U | Less than 5 times the method blank |
| 0904158-28 | SA1-6-H | Chromium | J | Negative calibration blank |
| 0904158-28 | SA1-6-H | Lead | U | Less than 5 times the method blank |
| 0904158-29 | SA1-7-H | Chromium | J | Negative calibration blank |
| 0904158-29 | SA1-7-H | Lead | U | Less than 5 times the method blank |
| 0904158-30 | SA1-8-L | Chromium | J | Negative calibration blank |
| 0904158-30 | SA1-8-L | Lead | U | Less than 5 times the method blank |
| 0904158-31 | SA2-1-L | Chromium | J | Negative calibration blank |
| 0904158-31 | SA2-1-L | Lead | U | Less than 5 times the calibration blank |
| 0904158-34 | SA3-4-H | Arsenic | U | Less than 5 times the method blank |
| 0904158-35 | SA4-5-L | Arsenic | U | Less than 5 times the method blank |
| 0904158-36 | Equipment Blank | Arsenic | U | Less than 5 times the method blank |

## Preservation and Holding Times

The sample shipments were received cool and intact with the temperature inside the iced cooler at 1.8 °C, which complies with requirements. All samples were received in the correct container types and had been preserved correctly for the requested analyses. The volatile samples were received with a small amount of headspace in one or more of the sample vials. The volatile

analysis were performed from the bottles with the least amount of headspace. All sample analyses were performed within the applicable holding times.

Laboratory Instrument Calibration

Compliance requirements for satisfactory instrument calibration are established to ensure that the instrument is capable of producing acceptable qualitative and quantitative data for all analytes. Initial calibration demonstrates that the instrument is capable of acceptable performance in the beginning of the analytical run and of producing a linear curve. Compliance requirements for continuing calibration checks are established to ensure that the instrument continues to be capable of producing acceptable qualitative and quantitative data. All laboratory instrument calibrations were performed correctly in accordance with the cited methods.

*Method SW-846 6010B*

Calibrations for method 6010B metals were performed on April 23 and April 24, 2009, using one calibration standard and a blank. Calibration and laboratory spike standards were prepared from independent sources. Continuing calibration verification checks were made at the required frequency resulting in 13 checks. All calibration checks met the acceptance criteria. A reporting limit verification check was made at the required frequency to verify the linearity of the calibration curve near the practical quantitation limit. The verification checks were within the acceptance criteria range.

*Method SW-846 6020A*

Calibrations for antimony, cadmium, and lead were performed on April 27, 2009, and for arsenic and selenium on April 28, 2009. The initial calibrations were performed using six calibration standards resulting in calibration curves where the absolute values of the curve intercepts were less than 3 times the method detection limit. Calibration and laboratory spike standards were prepared from independent sources. Initial and continuing calibration verification checks were made at the required frequency resulting in 11 calibration checks. All initial and continuing calibration verification results were within the acceptance range. Reporting limit verification checks were made at the required frequency to verify the linearity of the calibration curves near the practical quantitation limit. The check results were within the acceptance range. The mass calibration and resolution was checked at the beginning of each analytical run in accordance with the procedure. Internal standard recoveries were stable and within acceptance ranges.

*Method SW-846 7470A*

Calibration for mercury was performed on April 27, 2009, using five calibration standards and a blank. Calibration and laboratory spike standards were prepared from independent sources. Initial and continuing calibration verification checks were made at the required frequency resulting in six calibration checks. All calibration checks met the acceptance criteria. A reporting limit verification check was made at the required frequency to verify the linearity of the calibration curve near the practical quantitation limit. The verification checks were within the acceptance criteria range.

*Method SW-846 8260B, Volatile Organics*

Initial calibrations were performed on March 22, 2009. using nine calibration standards. Calibration curves are established using linear regression, quadratic regression, or the average response factor approach. Calibrations using average response factors had percent relative deviation values of less than 15 percent. Linear or higher order regression calibrations had correlation coefficient values greater than 0.99 and intercepts less than 3 times the method detection limit. Initial and continuing calibration verification checks were made at the required frequency. There were no target compounds with a percent drift value greater than 20 percent with the exception of acetone, n-butylbenzene, and hexachlorobutadiene analyzed on March 22, 2009. These compounds were not detected in any of the samples. The mass spectrometer calibration and resolution was checked at the beginning of each analytical run in accordance with the procedure.

VOA Internal Standard and Surrogate Recoveries

Laboratory performance for individual samples is evaluated by means of surrogate spikes. All samples are spiked with surrogate compounds prior to sample preparation. Surrogate recoveries are used to monitor factors such as interference and high concentrations of analytes. Surrogate recoveries may also be influenced by the success in recoveries of the internal standards. The internal standard and surrogate recoveries were within the acceptance ranges for all samples.

Method and Calibration Blanks

Method blanks are analyzed to assess any contamination that may have occurred during sample preparation. Calibration blanks are analyzed to assess instrument contamination prior to and during sample analysis. All method blank and initial and continuing calibration blank results associated with the samples were below the practical quantitation limits for all analytes. In cases where blank concentration exceeds the instrument detection limit, the associated sample results are qualified with a "U" flag (not detected) when the sample result is greater than the method detection limit but less than 5 times the blank concentration.

Trip Blank

One rip blank was prepared and analyzed to document contamination attributable to shipping and field handling procedures. There were no target compounds detected in the trip blank.

Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Analysis

ICP interference check samples ICSA and ICSAB were analyzed at the required frequency to verify the instrumental interelement and background correction factors. All check sample results met the acceptance criteria.

Matrix Spike Analysis

Matrix spike and matrix spike duplicate samples were analyzed for metals as a measure of method performance in the sample matrix. All spike results were within the acceptance range with the following exception. The selenium matrix spike duplicate recovery for sample

0904158-5 did not meet the acceptance criteria. Selenium was not detected at a concentration greater than 5 times the method blank in the associated sample.

Laboratory Replicate Analysis

The laboratory replicate sample results demonstrate acceptable laboratory precision. The relative percent difference values for the laboratory control sample replicates and matrix spike replicates were less than 20 percent for results that are greater than 5 times the practical quantitation limit demonstrating acceptable precision.

Laboratory Control Sample

Laboratory control samples were analyzed at the correct frequency to provide information on the accuracy of the analytical method and the overall laboratory performance, including sample preparation. The laboratory control sample results were acceptable for all analytes with the exception of *trans*-1,3-dichloropropene and vinyl acetate. These compounds were not detected in any of the samples.

Metals Serial Dilution

Serial dilutions were prepared and analyzed for metals to monitor chemical or physical interferences in the sample matrix. The serial dilution data that were evaluated when the concentration of the undiluted sample was greater than 50 times the practical quantitation limit were acceptable.

Detection Limits/Dilutions

The required detection limits were met for all analytes.

Completeness

Results were reported in the correct units for all analytes requested using contract-required laboratory qualifiers.

Chromatography Peak Integration

The integration of analyte peaks was reviewed for all volatile organics data. All peak integrations, including manual integrations, were satisfactory.

Electronic Data Deliverable (EDD) File

The EDD file with the complete data arrived on May 13, 2009. The Sample Management System EDD validation module was used to verify that the EDD files were complete and in compliance with requirements. The module compares the contents of the file to the requested analyses to ensure all and only the requested data are delivered. The contents of the EDD were manually examined to verify that the sample results accurately reflect the data contained in the sample data package.

# SAMPLE MANAGEMENT SYSTEM

## General Data Validation Report

**RIN:** 09032192 **Lab Code:** PAR **Validator:** Steve Donivan **Validation Date:** 5/21/2009

**Project:** Salmon LTS&M **Analysis Type:** ☑ Metals ☐ General Chem ☐ Rad ☑ Organics

**# of Samples:** 36 **Matrix:** WATER **Requested Analysis Completed:** Yes

**Chain of Custody**

**Present:** OK **Signed:** OK **Dated:** OK

**Sample**

**Integrity:** OK **Preservation:** OK **Temperature:** OK

**Select Quality Parameters**

| | |
|---|---|
| ☑ Holding Times | All analyses were completed within the applicable holding times. |
| ☑ Detection Limits | The reported detection limits are equal to or below contract requirements. |
| ☑ Field/Trip Blanks | There were 2 trip/equipment blanks evaluated. |
| ☑ Field Duplicates | There were 2 duplicates evaluated. |

## SAMPLE MANAGEMENT SYSTEM

## Metals Data Validation Worksheet

**RIN:** 09032192 **Lab Code:** PAR **Date Due:** 5/16/2009

**Matrix:** Water **Site Code:** SAL01 **Date Completed:** 5/1/2009

| Analyte | Date Analyzed | CALIBRATION | | | | | | Method Blank | LCS %R | MS %R | MSD %R | Dup. RPD | ICSAB %R | Serial Dil. %R | CRI %R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Int. | R^2 | ICV | CCV | ICB | CCB | | | | | | | | |
| ANTIMONY | 04/27/2009 | | | OK | OK | OK | OK | OK | 96.0 | 98.0 | 99.0 | 1.0 | 99.0 | | 121.0 |
| ANTIMONY | 04/27/2009 | | | | | | | OK | 96.0 | 97.0 | 96.0 | 0.0 | | | |
| ARSENIC | 04/28/2009 | | | OK | OK | OK | OK | OK | 96.0 | 91.0 | 86.0 | 2.0 | 97.0 | 5.0 | 96.0 |
| ARSENIC | 04/28/2009 | | | | | | | OK | 97.0 | 81.0 | 79.0 | 2.0 | | | |
| BARIUM | 04/23/2009 | | | OK | OK | OK | OK | OK | 98.0 | 96.0 | 96.0 | 1.0 | 95.0 | 6.0 | 101.0 |
| BARIUM | 04/24/2009 | | | OK | OK | OK | OK | OK | 107.0 | 104.0 | 103.0 | 1.0 | 103.0 | 3.0 | 106.0 |
| BERYLLIUM | 04/23/2009 | | | OK | OK | OK | OK | OK | 99.0 | 96.0 | 94.0 | 3.0 | 91.0 | | 102.0 |
| BERYLLIUM | 04/24/2009 | | | OK | OK | OK | OK | OK | 106.0 | 100.0 | 99.0 | 1.0 | 99.0 | | 108.0 |
| CADMIUM | 04/27/2009 | | | OK | OK | OK | OK | OK | 100.0 | 100.0 | 103.0 | 3.0 | 97.0 | | 70.0 |
| CADMIUM | 04/27/2009 | | | | | | | OK | 102.0 | 100.0 | 99.0 | 1.0 | | | |
| CHROMIUM | 04/23/2009 | | | OK | OK | OK | OK | OK | 98.0 | 94.0 | 92.0 | 2.0 | 88.0 | | 104.0 |
| CHROMIUM | 04/24/2009 | | | OK | OK | OK | OK | OK | 109.0 | 101.0 | 100.0 | 1.0 | 97.0 | | 100.0 |
| LEAD | 04/27/2009 | | | OK | OK | OK | OK | OK | 99.0 | 102.0 | 103.0 | 1.0 | 101.0 | | 101.0 |
| LEAD | 04/27/2009 | | | | | | | OK | 99.0 | 99.0 | 100.0 | 1.0 | | | |
| MERCURY | 04/27/2009 | | | OK | OK | OK | OK | OK | 100.0 | 91.0 | 86.0 | 6.0 | | | 101.0 |
| MERCURY | 04/27/2009 | | | | | | | OK | 98.0 | 90.0 | 90.0 | 0.0 | | | 90.0 |
| NICKEL | 04/23/2009 | | | OK | OK | OK | OK | OK | 104.0 | 99.0 | 97.0 | 3.0 | 86.0 | | 101.0 |
| NICKEL | 04/24/2009 | | | OK | OK | OK | OK | OK | 110.0 | 104.0 | 103.0 | 1.0 | 97.0 | | 106.0 |

## SAMPLE MANAGEMENT SYSTEM

### Metals Data Validation Worksheet

**RIN:** 09032192 **Lab Code:** PAR **Date Due:** 5/16/2009

**Matrix:** Water **Site Code:** SAL01 **Date Completed:** 5/1/2009

| Analyte | Date Analyzed | CALIBRATION | | | | | | Method Blank | LCS %R | MS %R | MSD %R | Dup. RPD | ICSAB %R | Serial Dil. %R | CRI %R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Int. | R^2 | ICV | CCV | ICB | CCB | | | | | | | | |
| SELENIUM | 04/28/2009 | | | OK | OK | OK | OK | OK | 91.0 | 83.0 | 82.0 | 1.0 | 94.0 | | 100.0 |
| SELENIUM | 04/28/2009 | | | | | | | OK | 93.0 | 75.0 | 72.0 | 4.0 | | | |
| SILVER | 04/23/2009 | | | OK | OK | OK | OK | OK | 97.0 | 95.0 | 94.0 | 2.0 | 92.0 | | 96.0 |
| SILVER | 04/24/2009 | | | OK | OK | OK | OK | OK | 102.0 | 98.0 | 97.0 | 1.0 | 99.0 | | 89.0 |
| ZINC | 04/23/2009 | | | OK | OK | OK | OK | OK | 97.0 | 93.0 | 89.0 | 4.0 | 86.0 | | 97.0 |
| ZINC | 04/24/2009 | | | OK | OK | OK | OK | OK | 112.0 | 102.0 | 102.0 | 1.0 | 103.0 | | 114.0 |

## SAMPLE MANAGEMENT SYSTEM
## Organics Data Validation Summary

**RIN:** 09032192 **Project:** Salmon LTS&M **Lab Code:** PAR **Validation Date:** 5/26/2009

**LCS Recovery:** There was 1 LCS failure.

**Method Blank(s):** There were 2 method blank results above the MDL.

**MS/MSD Recovery:** All MS/MSD recoveries were within the laboratory acceptance limits.

**Surrogate Recovery:** All surrogate recoveries were within the laboratory acceptance limits.

# SAMPLE MANAGEMENT SYSTEM

## Non-Compliance Report: Method Blanks

**RIN:** 09032192 **Lab Code:** PAR

**Project:** Salmon LTS&M

**Validation Date:** 5/26/2009

| Method Blank | Date Analyzed | Method | Analyte | Result | Flag(s) | MDL |
|---|---|---|---|---|---|---|
| VL090422-2MB | 4/22/2009 | SW8260_25 | METHYLENE CHLORIDE | 0.20 | J | 0.17 |
| VL090425-3MB | 4/25/2009 | SW8260_25 | ACETONE | 3.80 | J | 3.30 |

# SAMPLE MANAGEMENT SYSTEM

## Non-Compliance Report: LCS Recovery

**RIN:** 09032192 **Lab Code:** PAR

**Project:** Salmon LTS&M

**Validation Date:** 5/26/2009

| LCS/LCSD | Date Analyzed | Method | Analyte | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|
| LCS | 04/25/2009 | SW8260_25 | TRANS-1,3-DICHLOROPROPENE | 115 | 78 | 113 |

## Laboratory Performance Assessment

General Information

| | |
|---|---|
| RIN: | 09032193 |
| Sample Event: | April 14−17, 2009 |
| Site(s): | Salmon Site |
| Laboratory: | Radiation and Indoor Environments National Laboratory<br>Las Vegas, NV |
| Analysis: | Radiochemistry |
| Validator: | Steve Donivan |
| Review Date: | July 10, 2009 |

This validation was performed according to the *Environmental Procedures Catalog* (LMS/PRO/S04325) "Standard Practice for Validation of Laboratory Samples." The procedure was applied at Level 1, Data Deliverables Examination. All analyses were successfully completed. The samples were prepared and analyzed using accepted procedures based on methods specified by line item code, which are listed in Table 4.

*Table 4. Analytes and Methods*

| Analyte | Line Item Code | Prep Method | Analytical Method |
|---|---|---|---|
| Gamma Spectrometry | GAM-A-001 | RQA-302 | RQA-302 |
| Tritium | LSC-A-001 | RQA-604 | RQA-604 |
| Tritium (enriched) | LMR-15 | RQA-602 | RQA-602 |

Data Qualifier Summary

Analytical results were qualified as listed in Table 5. Refer to the sections below for an explanation of the data qualifiers applied.

*Table 5. Data Qualifier Summary*

| Sample | Location | Analyte | Flag | Reason |
|---|---|---|---|---|
| 735243 | E-7 | Tritium | U | Less than the MDC |
| 735243 | E-7 | Tritium, enriched | U | Less than the MDC |
| 735244 | HALFMOON CREEK | Tritium | U | Less than the MDC |
| 735245 | HALFMOONCRKOVERFLOW | Tritium | U | Less than the MDC |
| 735246 | HM-S | Tritium | J | Less than 3 times the MDC |
| 735247 | HM-1 | Tritium, enriched | J | Less than 3 times the MDC |
| 735247 | HM-1 | Tritium | U | Less than the MDC |
| 735249 | HM-2A | Tritium | U | Less than the MDC |
| 735250 | HM-2B | Tritium | U | Less than the MDC |
| 735251 | HM-3 | Tritium | U | Less than the MDC |
| 735251 | HM-3 | Tritium, enriched | U | Less than the MDC |
| 735252 | Reeco Pit (A) | Tritium | U | Less than the MDC |
| 735253 | Reeco Pit (B) | Tritium | U | Less than the MDC |
| 735254 | Reeco Pit (C) | Tritium | U | Less than the MDC |

*Table 5 (continued). Data Qualifier Summary*

| Sample | Location | Analyte | Flag | Reason |
|---|---|---|---|---|
| 735255 | HM-L2 | Tritium | U | Less than the MDC |
| 735256 | Half Moon Ck Exit | Tritium | U | Less than the MDC |
| 735258 | HMH-16R | Tritium | U | Less than the MDC |
| 735259 | Grantham Cr Entry | Tritium | U | Less than the MDC |
| 735260 | Pond West of GZ | Tritium | U | Less than the MDC |
| 735261 | HickHCrTSD-east | Tritium | U | Less than the MDC |
| 735263 | SA1-2-H | Tritium | J | Less than 3 times the MDC |
| 735264 | SA1-3-H | Tritium | J | Less than 3 times the MDC |
| 735265 | SA1-4H | Tritium | U | Less than the MDC |
| 735266 | SA1-5-H | Tritium | U | Less than the MDC |
| 735267 | SA1-6-H | Tritium | U | Less than the MDC |
| 735268 | SA1-7H | Tritium | U | Less than the MDC |
| 735269 | SA3-4-H | Tritium | U | Less than the MDC |
| 735270 | SA5-5-4 | Tritium | U | Less than the MDC |
| 735271 | SA1-8-L | Tritium | U | Less than the MDC |
| 735272 | SA1-12-H | Tritium | U | Less than the MDC |
| 735273 | SA4-5-L | Tritium | U | Less than the MDC |
| 735274 | SA1-11-3 | Tritium | U | Less than the MDC |
| 735275 | HM-S Duplicate | Tritium | J | Less than 3 times the MDC |
| 735276 | Hick Hallow Ck Entry | Tritium | U | Less than the MDC |
| 735277 | SA2-1-L | Tritium | U | Less than the MDC |
| 735278 | SA2-2-L | Tritium | U | Less than the MDC |
| 735279 | SA2-4-L | Tritium | U | Less than the MDC |
| 735280 | SA3-11-3 | Tritium | U | Less than the MDC |
| 735280 | SA3-11-3 | Tritium, enriched | U | Less than the MDC |
| 735281 | SA5-4-4 | Tritium | U | Less than the MDC |
| 735281 | SA5-4-4 | Tritium, enriched | U | Less than the MDC |
| 735282 | SA1-3-H Duplicate | Tritium | J | Less than 3 times the MDC |
| 735284 | Half Moon Ck Entry | Tritium | U | Less than the MDC |
| 735290 | Equipment Blank | Tritium | U | Less than the MDC |

Sample Shipping/Receiving

The Radiation and Indoor Environments National Laboratory in Las Vegas, Nevada, received 49 water samples on April 20, 2009, submitted for the determination of gamma emitting nuclides, tritium, and tritium (enrichment method). The analytical report was checked to confirm that all of the samples scheduled were received and analyzed.

Preservation and Holding Times

The sample shipment was received intact with all samples in the correct container types and preserved correctly for the requested analyses with the following exceptions. The sample bottles submitted for gamma spectrometry were broken in transit for samples SA2-1-L and SA3-11-3. Gamma spectrometry analysis was not performed on these samples. The sample bottles submitted for tritium (enrichment method) were broken in transit for samples SA1-3-H and E-7.

Low-level tritium analysis was performed from an alternate bottle for these samples. All samples were analyzed within the applicable holding times.

Laboratory Instrument Calibration

Data for this RIN were reported at Analysis Service Level B, (results only) and do not include calibration data.

Radiochemical Analysis

Radiochemical results are qualified with a "J" flag (estimated) when the result is greater than the minimum detectable concentration (MDC), but less than 3 times the MDC. Radiochemical results are qualified with a "U" flag (not detected) when the result is greater than the MDC, but less than the two sigma total propagated uncertainty.

Completeness

The EDD was the only deliverable received for this RIN. Cesium-137 was the only gamma emitting nuclide for which data are reported.

EDD File

The EDD file arrived on July 10, 2009. The Sample Management System EDD validation module was used to verify that the EDD file was complete and in compliance with requirements. The module compares the contents of the file to the requested analyses to ensure all and only the requested data are delivered.

# SAMPLE MANAGEMENT SYSTEM

## General Data Validation Report

**RIN:** 09032193 **Lab Code:** RIE **Validator:** Steve Donivan **Validation Date:** 7/10/2009

**Project:** Salmon LTS&M **Analysis Type:** ☐ Metals ☐ General Chem ☑ Rad ☐ Organics

**# of Samples:** 42 **Matrix:** WATER **Requested Analysis Completed:** Yes

**Chain of Custody**

**Present:** OK **Signed:** OK **Dated:** OK

**Sample**

**Integrity:** OK **Preservation:** OK **Temperature:** OK

**Select Quality Parameters**

| | |
|---|---|
| ☑ Holding Times | All analyses were completed within the applicable holding times. |
| ☑ Detection Limits | The reported detection limits are equal to or below contract requirements. |
| ☑ Field/Trip Blanks | There was 1 trip/equipment blank evaluated. |
| ☑ Field Duplicates | There were 2 duplicates evaluated. |

## Sampling Quality Control Assessment

The following information summarizes and assesses quality control for this sampling event.

Sampling Protocol

Groundwater samples were collected using dedicated bladder pumps or dedicated submersible Grundfos electric pumps. Data from wells classified as Category I or Category II are qualified with a "F" flag in the database indicating the wells were purged and sampled using the low-flow sampling method. The data from wells HM-L2, SA2-2-L, and SA4-5-L were further qualified with a "Q" flag as estimated values because these wells were classified as a Category II wells.

Equipment Blank Assessment

Equipment blanks are prepared and analyzed to document contamination attributable to the sample collection process. One equipment blank was collected during this sampling event. There were no analytes detected in the equipment blank.

Field Duplicate Assessment

Field duplicate samples were collected and analyzed as an indication of overall precision of the measurement process. The precision observed includes both field and laboratory precision and has more variability than laboratory duplicates which measure only laboratory performance. Duplicate samples were collected from locations HM-S and SA1-3-H. The duplicate results met the EPA recommended laboratory duplicate criteria of having an RPD of less than 20 percent for results greater than 5 times the practical quantitation limit indicating acceptable overall precision.

# SAMPLE MANAGEMENT SYSTEM

## Validation Report: Field Duplicates

**RIN:** 09032192 **Lab Code:** PAR **Project:** Salmon LTS&M **Validation Date:** 5/21/2009

**Duplicate:** 2594 **Sample:** HM-S

| Analyte | Sample Result | Sample Flag | Sample Error | Duplicate Result | Duplicate Flag | Duplicate Error | RPD | RER | Units |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,1,1-TRICHLOROETHANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,1,2,2-TETRACHLOROETHANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,1,2-TRICHLORO-1,2,2-TRIFLUOROET | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,1,2-TRICHLOROETHANE | 0.2 | U | | 0.2 | U | | | | UG/L |
| 1,1-DICHLOROETHANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,1-DICHLOROETHENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,1-DICHLOROPROPENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,2,3-TRICHLOROBENZENE | 0.2 | U | | 0.2 | U | | | | UG/L |
| 1,2,3-TRICHLOROPROPANE | 0.49 | U | | 0.49 | U | | | | UG/L |
| 1,2,4-TRICHLOROBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,2,4-TRIMETHYLBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,2-DIBROMO-3-CHLOROPROPANE | 0.64 | U | | 0.64 | U | | | | UG/L |
| 1,2-DIBROMOETHANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,2-DICHLOROBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,2-DICHLOROETHANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,2-DICHLOROPROPANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,3,5-TRIMETHYLBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,3-DICHLOROBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,3-DICHLOROPROPANE | 0.18 | U | | 0.18 | U | | | | UG/L |
| 1,4-DICHLOROBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1-CHLOROHEXANE | 0.28 | U | | 0.28 | U | | | | UG/L |
| 2,2-DICHLOROPROPANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 2-BUTANONE | 1.7 | U | | 1.7 | U | | | | UG/L |
| 2-CHLOROTOLUENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 2-HEXANONE | 3.3 | U | | 3.3 | U | | | | UG/L |
| 4-CHLOROTOLUENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 4-METHYL-2-PENTANONE | 1.7 | U | | 1.7 | U | | | | UG/L |
| ACETONE | 3.4 | J | | 3.3 | U | | | | UG/L |
| ANTIMONY | 0.024 | U | | 0.04 | B | | | | UG/L |
| ARSENIC | 0.079 | B | | 0.092 | B | | 15.20 | | UG/L |
| BARIUM | 31 | | | 31 | | | 0 | | UG/L |
| BENZENE | 0.22 | J | | 0.23 | J | | | | UG/L |
| BERYLLIUM | 0.17 | B | | 0.22 | B | | | | UG/L |
| BROMOBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| BROMOCHLOROMETHANE | 0.21 | U | | 0.21 | U | | | | UG/L |
| BROMODICHLOROMETHANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| BROMOFORM | 0.17 | U | | 0.17 | U | | | | UG/L |
| BROMOMETHANE | 0.25 | U | | 0.25 | U | | | | UG/L |
| CADMIUM | 0.033 | B | | 0.047 | B | | | | UG/L |

# SAMPLE MANAGEMENT SYSTEM

## Validation Report: Field Duplicates

**RIN:** 09032192 **Lab Code:** PAR **Project:** Salmon LTS&M **Validation Date:** 5/21/2009

**Duplicate:** 2594 **Sample:** HM-S

| Analyte | Sample Result | Sample Flag | Sample Error | Duplicate Result | Duplicate Flag | Duplicate Error | RPD | RER | Units |
|---|---|---|---|---|---|---|---|---|---|
| CARBON DISULFIDE | 0.17 | U | | 0.17 | U | | | | UG/L |
| CARBON TETRACHLORIDE | 0.17 | U | | 0.17 | U | | | | UG/L |
| CHLOROBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| Chlorodibromomethane | 0.17 | U | | 0.17 | U | | | | UG/L |
| CHLOROETHANE | 0.25 | U | | 0.25 | U | | | | UG/L |
| CHLOROFORM | 0.17 | U | | 0.17 | U | | | | UG/L |
| CHLOROMETHANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| CHROMIUM | 0.89 | B | | 0.63 | B | | | | UG/L |
| CIS-1,2-DICHLOROETHENE | 3.9 | | | 3.8 | | | 2.60 | | UG/L |
| CIS-1,3-DICHLOROPROPENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| DIBROMOMETHANE | 0.18 | U | | 0.18 | U | | | | UG/L |
| DICHLORODIFLUOROMETHANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| Ethyl Benzene | 0.17 | U | | 0.17 | U | | | | UG/L |
| HEXACHLOROBUTADIENE | 0.18 | U | | 0.18 | U | | | | UG/L |
| IODOMETHANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| ISOPROPYLBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| LEAD | 0.12 | B | | 0.29 | B | | | | UG/L |
| M+P-XYLENE | 0.19 | U | | 0.19 | U | | | | UG/L |
| MERCURY | 0.0078 | U | | 0.0078 | U | | | | UG/L |
| METHYL TERTIARY BUTYL ETHER | 0.24 | U | | 0.24 | U | | | | UG/L |
| METHYLENE CHLORIDE | 0.17 | U | | 0.17 | U | | | | UG/L |
| NAPHTHALENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| N-BUTYLBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| NICKEL | 0.95 | U | | 0.95 | U | | | | UG/L |
| N-PROPYLBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| O-XYLENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| P-ISOPROPYLTOLUENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| SEC-BUTYLBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| SELENIUM | 0.066 | B | | 0.069 | B | | | | UG/L |
| SILVER | 0.83 | U | | 0.83 | U | | | | UG/L |
| STYRENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| TERT-BUTYLBENZENE | 0.18 | U | | 0.18 | U | | | | UG/L |
| TETRACHLOROETHENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| TOLUENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| TRANS-1,2-DICHLOROETHENE | 0.49 | J | | 0.49 | J | | | | UG/L |
| TRANS-1,3-DICHLOROPROPENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| TRICHLOROETHENE | 1.7 | | | 1.7 | | | 0 | | UG/L |
| TRICHLOROFLUOROMETHANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| VINYL ACETATE | 0.27 | U | | 0.27 | U | | | | UG/L |
| VINYL CHLORIDE | 0.17 | U | | 0.17 | U | | | | UG/L |

# SAMPLE MANAGEMENT SYSTEM

## Validation Report: Field Duplicates

**RIN:** 09032192 **Lab Code:** PAR **Project:** Salmon LTS&M **Validation Date:** 5/21/2009

**Duplicate:** 2594 **Sample:** HM-S

| Analyte | Sample Result | Sample Flag | Sample Error | Duplicate Result | Duplicate Flag | Duplicate Error | RPD | RER | Units |
|---|---|---|---|---|---|---|---|---|---|
| ZINC | 1.8 | B | | 2 | B | | | | UG/L |

**Duplicate:** 2595 **Sample:** SA1-3-H

| Analyte | Sample Result | Sample Flag | Sample Error | Duplicate Result | Duplicate Flag | Duplicate Error | RPD | RER | Units |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,1,1-TRICHLOROETHANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,1,2,2-TETRACHLOROETHANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,1,2-TRICHLORO-1,2,2-TRIFLUOROET | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,1,2-TRICHLOROETHANE | 0.2 | U | | 0.2 | U | | | | UG/L |
| 1,1-DICHLOROETHANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,1-DICHLOROETHENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,1-DICHLOROPROPENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,2,3-TRICHLOROBENZENE | 0.2 | U | | 0.2 | U | | | | UG/L |
| 1,2,3-TRICHLOROPROPANE | 0.49 | U | | 0.49 | U | | | | UG/L |
| 1,2,4-TRICHLOROBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,2,4-TRIMETHYLBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,2-DIBROMO-3-CHLOROPROPANE | 0.64 | U | | 0.64 | U | | | | UG/L |
| 1,2-DIBROMOETHANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,2-DICHLOROBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,2-DICHLOROETHANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,2-DICHLOROPROPANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,3,5-TRIMETHYLBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,3-DICHLOROBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1,3-DICHLOROPROPANE | 0.18 | U | | 0.18 | U | | | | UG/L |
| 1,4-DICHLOROBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 1-CHLOROHEXANE | 0.28 | U | | 0.28 | U | | | | UG/L |
| 2,2-DICHLOROPROPANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 2-BUTANONE | 1.7 | U | | 1.7 | U | | | | UG/L |
| 2-CHLOROTOLUENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 2-HEXANONE | 3.3 | U | | 3.3 | U | | | | UG/L |
| 4-CHLOROTOLUENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| 4-METHYL-2-PENTANONE | 1.7 | U | | 1.7 | U | | | | UG/L |
| ACETONE | 3.3 | U | | 3.3 | U | | | | UG/L |
| ANTIMONY | 0.034 | B | | 0.078 | B | | | | UG/L |
| ARSENIC | 14 | | | 17 | | | 19.35 | | UG/L |
| BARIUM | 59 | | | 59 | | | 0 | | UG/L |
| BENZENE | 0.75 | J | | 0.77 | J | | | | UG/L |
| BERYLLIUM | 0.31 | B | | 0.45 | B | | | | UG/L |

# SAMPLE MANAGEMENT SYSTEM

## Validation Report: Field Duplicates

**RIN:** 09032192 **Lab Code:** PAR **Project:** Salmon LTS&M **Validation Date:** 5/21/2009

**Duplicate:** 2595 **Sample:** SA1-3-H

| Analyte | Sample Result | Sample Flag | Sample Error | Duplicate Result | Duplicate Flag | Duplicate Error | RPD | RER | Units |
|---|---|---|---|---|---|---|---|---|---|
| BROMOBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| BROMOCHLOROMETHANE | 0.21 | U | | 0.21 | U | | | | UG/L |
| BROMODICHLOROMETHANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| BROMOFORM | 0.17 | U | | 0.17 | U | | | | UG/L |
| BROMOMETHANE | 0.25 | U | | 0.25 | U | | | | UG/L |
| CADMIUM | 0.054 | B | | 0.084 | B | | | | UG/L |
| CARBON DISULFIDE | 0.17 | U | | 0.17 | U | | | | UG/L |
| CARBON TETRACHLORIDE | 0.17 | U | | 0.17 | U | | | | UG/L |
| CHLOROBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| Chlorodibromomethane | 0.17 | U | | 0.17 | U | | | | UG/L |
| CHLOROETHANE | 0.25 | U | | 0.25 | U | | | | UG/L |
| CHLOROFORM | 0.17 | U | | 0.17 | U | | | | UG/L |
| CHLOROMETHANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| CHROMIUM | 2.3 | | | 3.8 | | | | | UG/L |
| CIS-1,2-DICHLOROETHENE | 32 | | | 32 | | | 0 | | UG/L |
| CIS-1,3-DICHLOROPROPENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| DIBROMOMETHANE | 0.18 | U | | 0.18 | U | | | | UG/L |
| DICHLORODIFLUOROMETHANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| Ethyl Benzene | 0.17 | U | | 0.17 | U | | | | UG/L |
| HEXACHLOROBUTADIENE | 0.18 | U | | 0.18 | U | | | | UG/L |
| IODOMETHANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| ISOPROPYLBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| LEAD | 0.48 | B | | 0.21 | B | | 78.26 | | UG/L |
| M+P-XYLENE | 0.19 | U | | 0.19 | U | | | | UG/L |
| MERCURY | 0.0078 | U | | 0.0078 | U | | | | UG/L |
| METHYL TERTIARY BUTYL ETHER | 0.24 | U | | 0.24 | U | | | | UG/L |
| METHYLENE CHLORIDE | 0.17 | U | | 0.17 | U | | | | UG/L |
| NAPHTHALENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| N-BUTYLBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| NICKEL | 0.95 | U | | 1.2 | B | | | | UG/L |
| N-PROPYLBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| O-XYLENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| P-ISOPROPYLTOLUENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| SEC-BUTYLBENZENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| SELENIUM | 0.096 | B | | 0.098 | B | | 2.06 | | UG/L |
| SILVER | 0.83 | U | | 0.83 | U | | | | UG/L |
| STYRENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| TERT-BUTYLBENZENE | 0.18 | U | | 0.18 | U | | | | UG/L |
| TETRACHLOROETHENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| TOLUENE | 0.17 | U | | 0.17 | U | | | | UG/L |

# SAMPLE MANAGEMENT SYSTEM

## Validation Report: Field Duplicates

**RIN:** 09032192 **Lab Code:** PAR **Project:** Salmon LTS&M **Validation Date:** 5/21/2009

**Duplicate:** 2595 **Sample:** SA1-3-H

| Analyte | Sample Result | Sample Flag | Sample Error | Duplicate Result | Duplicate Flag | Duplicate Error | RPD | RER | Units |
|---|---|---|---|---|---|---|---|---|---|
| TRANS-1,2-DICHLOROETHENE | 14 | | | 14 | | | 0 | | UG/L |
| TRANS-1,3-DICHLOROPROPENE | 0.17 | U | | 0.17 | U | | | | UG/L |
| TRICHLOROETHENE | 1.1 | | | 1.1 | | | 0 | | UG/L |
| TRICHLOROFLUOROMETHANE | 0.17 | U | | 0.17 | U | | | | UG/L |
| VINYL ACETATE | 0.27 | U | | 0.27 | U | | | | UG/L |
| VINYL CHLORIDE | 0.77 | J | | 0.78 | J | | | | UG/L |
| ZINC | 1 | U | | 7.8 | B | | | | UG/L |

## Certification

All laboratory analytical quality control criteria were met except as qualified in this report. The data qualifiers listed on the SEEPro database reports are defined on the last page of each report. All data in this package are considered validated and available for use.

Laboratory Coordinator: Steve Donivan — Date: 7-31-2009

Data Validation Lead: Steve Donivan — Date: 7-31-2009

# Attachment 1
# Assessment of Anomalous Data

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# Potential Outliers Report

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## Potential Outliers Report

Potential outliers are measurements that are extremely large or small relative to the rest of the data and, therefore, are suspected of misrepresenting the population from which they were collected. Potential outliers may result from transcription errors, data-coding errors, or measurement system problems. However, outliers may also represent true extreme values of a distribution and indicate more variability in the population than was expected.

Statistical outlier tests give probabilistic evidence that an extreme value does not "fit" with the distribution of the remainder of the data and is therefore a statistical outlier. These tests should only be used to identify data points that require further investigation. The tests alone cannot determine whether a statistical outlier should be discarded or corrected within a data set.

There are three steps involved in identifying extreme values or outliers:

1. Identify extreme values that may be potential outliers by generating the Outliers Report using the Sample Management System from data in the SEEPro database. The application compares the new data set with historical data and lists the new data that fall outside the historical data range. A determination is also made if the data are normally distributed using the Shapiro-Wilk Test.
2. Apply the appropriate statistical test. Dixon's Extreme Value test is used to test for statistical outliers when the sample size is less than or equal to 25. This test considers both extreme values that are much smaller than the rest of the data (case 1) and extreme values that are much larger than the rest of the data (case 2). This test is valid only if the data without the suspected outlier are normally distributed. Rosner's Test is a parametric test that is used to detect outliers for sample sizes of 25 or more. This test also assumes that the data without the suspected outliers are normally distributed.
3. Scientifically review statistical outliers and decide on their disposition.

There were no potential outliers identified, and the data for this event are acceptable as qualified.

**Data Validation Outliers Report - Including Field Parameters**
Laboratory: Radiation and Indoor Environments National Laboratory (Las Vegas, NV)
RIN: 09032193
Comparison: All Historical Data
Report Date: 7/23/2009

| | | | | Current | | | Historical Maximum | | | Historical Minimum | | | Number of Data Points | | Normally Distributed | Statistical Outlier |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Qualifiers | | | Qualifiers | | | Qualifiers | | | | | |
| Site Code | Location Code | Sample Date | Analyte | Result | Lab | Data | Result | Lab | Data | Result | Lab | Data | N | N Below Detect | | |
| SAL01 | HMH-5R | 04/15/2009 | pH | 5.33 | | F | 5.8 | | | 5.5 | | | 9 | 0 | Yes | No |
| SAL01 | SA1-11-3 | 04/15/2009 | Specific Conductance | 1034 | | F | 1420 | | | 1132 | | | 8 | 0 | Yes | No |
| SAL01 | SA1-1-H | 04/14/2009 | pH | 5.51 | | F | 6.54 | | | 5.87 | | F | 22 | 0 | Yes | No |
| SAL01 | SA1-1-H | 04/14/2009 | Tritium | 2110 | | F | 34500 | | | 3680 | | | 33 | 0 | Yes | No |
| SAL01 | SA1-2-H | 04/14/2009 | Tritium | 332 | | FJ | 3970 | | | 697 | | | 28 | 0 | Yes | No |
| SAL01 | SA1-7-H | 04/15/2009 | pH | 5.88 | | F | 5.83 | | F | 5.19 | | | 22 | 0 | Yes | No |
| SAL01 | SA1-8-L | 04/15/2009 | Specific Conductance | 261 | | F | 239 | | | 142 | | | 10 | 0 | Yes | No |
| SAL01 | SA2-1-L | 04/16/2009 | pH | 8.9 | | F | 8.87 | | F | 7.39 | | | 9 | 0 | Yes | No |
| SAL01 | SA2-1-L | 04/16/2009 | Specific Conductance | 324 | | F | 315 | | F | 243 | | | 9 | 0 | Yes | No |
| SAL01 | SA2-2-L | 04/16/2009 | pH | 12.33 | | FQ | 12.23 | | FQ | 10.42 | | | 8 | 0 | Yes | No |
| SAL01 | SA2-2-L | 04/16/2009 | Specific Conductance | 6277 | | FQ | 6053 | | FQ | 42 | | | 8 | 0 | Yes (log) | No |
| SAL01 | SA4-5-L | 04/16/2009 | Specific Conductance | 5837 | | FQ | 4660 | | FQ | 65 | | | 5 | 0 | Yes | No |
| SAL01 | SA5-4-4 | 04/17/2009 | Specific Conductance | 5860 | | | 4970 | | | 369 | | | 7 | 0 | No | No |

SAMPLE ID CODES: 000X = Filtered sample (0.45 µm). N00X = Unfiltered sample. X = replicate number.

LAB QUALIFIERS:
* Replicate analysis not within control limits.

| | |
|---|---|
| > | Result above upper detection limit. |
| A | TIC is a suspected aldol-condensation product. |
| B | Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank. |
| C | Pesticide result confirmed by GC-MS. |
| D | Analyte determined in diluted sample. |
| E | Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS. |
| H | Holding time expired, value suspect. |
| I | Increased detection limit due to required dilution. |
| J | Estimated |
| N | Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC). |
| P | > 25% difference in detected pesticide or Aroclor concentrations between 2 columns. |
| U | Analytical result below detection limit. |
| W | Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance. |
| X,Y,Z | Laboratory defined qualifier, see case narrative. |

DATA QUALIFIERS:

| | | | | | |
|---|---|---|---|---|---|
| F | Low flow sampling method used. | G | Possible grout contamination, pH > 9. | J | Estimated value. |
| L | Less than 3 bore volumes purged prior to sampling. | Q | Qualitative result due to sampling technique. | R | Unusable result. |
| U | Parameter analyzed for but was not detected. | X | Location is undefined. | | |

STATISTICAL TESTS:

The distribution of the data is tested for normality or lognormality using the Shapiro-Wilk Test
Outliers are identified using Dixon's Test when there are 25 or fewer data points.
Outliers are identified using Rosner's Test when there are 26 or more data points.
See Data Quality Assessment: Statistical Methods for Practitioners, EPA QC/G-9S, February 2006.

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# Attachment 2
# Data Presentation

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# Groundwater Quality Data

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**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: E-7 WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| 1,1,1-Trichloroethane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloroethane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.2 | U | F | # | 0.2 | |
| 1,1-Dichloroethane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloroethene | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloropropene | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| 1,2,3-Trichlorobenzene | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.2 | U | F | # | 0.2 | |
| 1,2,3-Trichloropropane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.49 | U | F | # | 0.49 | |
| 1,2,4-Trichlorobenzene | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| 1,2,4-Trimethylbenzene | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.64 | U | F | # | 0.64 | |
| 1,2-Dibromoethane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichlorobenzene | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloroethane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloropropane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: E-7 WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| 1,3-Dichlorobenzene | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| 1,3-Dichloropropane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.18 | U | F | # | 0.18 | |
| 1,4-Dichlorobenzene | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| 1-Chlorohexane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.28 | U | F | # | 0.28 | |
| 2,2-Dichloropropane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| 2-Butanone | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 1.7 | U | F | # | 1.7 | |
| 2-Chlorotoluene | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| 2-Hexanone | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 3.3 | U | F | # | 3.3 | |
| 4-Chlorotoluene | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| 4-Methyl-2-Pentanone | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 1.7 | U | F | # | 1.7 | |
| Acetone | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 3.3 | U | F | # | 3.3 | |
| Benzene | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| Bromobenzene | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| Bromochloromethane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.21 | U | F | # | 0.21 | |
| Bromodichloromethane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| Bromoform | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: E-7 WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromomethane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.25 | U | F | # | 0.25 | |
| Carbon Disulfide | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| Carbon tetrachloride | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| Cesium-137 | pCi/L | 04/15/2009 | N003 | 934 | - | 934 | 0 | U | F | # | 4.93 | 0 |
| Chlorobenzene | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| Chlorodibromomethane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| Chloroethane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.25 | U | F | # | 0.25 | |
| Chloroform | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| Chloromethane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| cis-1,2-Dichloroethene | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| cis-1,3-Dichloropropene | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| Dibromomethane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.18 | U | F | # | 0.18 | |
| Dichlorodifluoromethane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| Enriched Tritium | pCi/L | 04/15/2009 | N003 | 934 | - | 934 | -1.29 | | UF | # | 3.64 | 2.18 |
| Ethylbenzene | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| Hexachlorobutadiene | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.18 | U | F | # | 0.18 | |
| Iodomethane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: E-7 WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | ug/L | 04/15/2009 | N001 | 934 - 934 | 0.17 | U | F | # | 0.17 | |
| m,p-Xylene | ug/L | 04/15/2009 | N001 | 934 - 934 | 0.19 | U | F | # | 0.19 | |
| Methylene chloride | ug/L | 04/15/2009 | N001 | 934 - 934 | 0.17 | U | F | # | 0.17 | |
| n-Butylbenzene | ug/L | 04/15/2009 | N001 | 934 - 934 | 0.17 | U | F | # | 0.17 | |
| n-Propylbenzene | ug/L | 04/15/2009 | N001 | 934 - 934 | 0.17 | U | F | # | 0.17 | |
| Naphthalene | ug/L | 04/15/2009 | N001 | 934 - 934 | 0.17 | U | F | # | 0.17 | |
| o-Xylene | ug/L | 04/15/2009 | N001 | 934 - 934 | 0.17 | U | F | # | 0.17 | |
| Oxidation Reduction Potential | mV | 04/15/2009 | N003 | 934 - 934 | -321.8 | | F | # | | |
| p-Isopropyltoluene | ug/L | 04/15/2009 | N001 | 934 - 934 | 0.17 | U | F | # | 0.17 | |
| pH | s.u. | 04/15/2009 | N003 | 934 - 934 | 7.45 | | F | # | | |
| Propane, 2-methoxy-2-methyl- | ug/L | 04/15/2009 | N001 | 934 - 934 | 0.24 | U | F | # | 0.24 | |
| sec-Butylbenzene | ug/L | 04/15/2009 | N001 | 934 - 934 | 0.17 | U | F | # | 0.17 | |
| Specific Conductance | umhos /cm | 04/15/2009 | N003 | 934 - 934 | 2889 | | F | # | | |
| Styrene | ug/L | 04/15/2009 | N001 | 934 - 934 | 0.17 | U | F | # | 0.17 | |
| Temperature | C | 04/15/2009 | N003 | 934 - 934 | 18.61 | | F | # | | |
| tert-Butylbenzene | ug/L | 04/15/2009 | N001 | 934 - 934 | 0.18 | U | F | # | 0.18 | |
| Tetrachloroethene | ug/L | 04/15/2009 | N001 | 934 - 934 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: E-7 WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Toluene | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.32 | J | F | # | 0.17 | |
| trans-1,2-Dichloroethene | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| trans-1,3-dichloropropene | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| Trichloroethene | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| Trichlorofluoromethane | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |
| Tritium | pCi/L | 04/15/2009 | N003 | 934 | - | 934 | 16.3 | | UF | # | 158 | 96.2 |
| Turbidity | NTU | 04/15/2009 | N003 | 934 | - | 934 | 13 | | F | # | | |
| Vinyl Acetate | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.27 | U | F | # | 0.27 | |
| Vinyl chloride | ug/L | 04/15/2009 | N001 | 934 | - | 934 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HM-1 WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cesium-137 | pCi/L | 04/15/2009 | N003 | 330 | - | 415 | 0 | U | F | # | 4.95 | 0 |
| Dissolved Oxygen | mg/L | 04/15/2009 | N003 | 330 | - | 415 | 0.27 | | F | # | | |
| Enriched Tritium | pCi/L | 04/15/2009 | N003 | 330 | - | 415 | 6.47 | | FJ | # | 4.85 | 3.09 |
| Oxidation Reduction Potential | mV | 04/15/2009 | N003 | 330 | - | 415 | -211.2 | | F | # | | |
| pH | s.u. | 04/15/2009 | N003 | 330 | - | 415 | 8.51 | | F | # | | |
| Specific Conductance | umhos /cm | 04/15/2009 | N003 | 330 | - | 415 | 198 | | F | # | | |
| Temperature | C | 04/15/2009 | N003 | 330 | - | 415 | 20.72 | | F | # | | |
| Tritium | pCi/L | 04/15/2009 | N003 | 330 | - | 415 | 9.77 | | UF | # | 158 | 96.1 |
| Turbidity | NTU | 04/15/2009 | N003 | 330 | - | 415 | 5.91 | | F | # | | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HM-2A WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cesium-137 | pCi/L | 04/14/2009 | N003 | 440 | - | 537 | 0 | U | F | # | 4.99 | 0 |
| Dissolved Oxygen | mg/L | 04/14/2009 | N003 | 440 | - | 537 | 0.38 | | F | # | | |
| Oxidation Reduction Potential | mV | 04/14/2009 | N003 | 440 | - | 537 | -173.7 | | F | # | | |
| pH | s.u. | 04/14/2009 | N003 | 440 | - | 537 | 7.09 | | F | # | | |
| Specific Conductance | umhos /cm | 04/14/2009 | N003 | 440 | - | 537 | 147 | | F | # | | |
| Temperature | C | 04/14/2009 | N003 | 440 | - | 537 | 21.26 | | F | # | | |
| Tritium | pCi/L | 04/14/2009 | N003 | 440 | - | 537 | -48.8 | | UF | # | 158 | 94.7 |
| Turbidity | NTU | 04/14/2009 | N003 | 440 | - | 537 | 0.78 | | F | # | | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HM-2B WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cesium-137 | pCi/L | 04/15/2009 | N003 | 600 | - | 700 | 0 | U | F | # | 4.82 | 0 |
| Dissolved Oxygen | mg/L | 04/15/2009 | N003 | 600 | - | 700 | 0.42 | | F | # | | |
| Oxidation Reduction Potential | mV | 04/15/2009 | N003 | 600 | - | 700 | -270.6 | | F | # | | |
| pH | s.u. | 04/15/2009 | N003 | 600 | - | 700 | 9.45 | | F | # | | |
| Specific Conductance | umhos /cm | 04/15/2009 | N003 | 600 | - | 700 | 472 | | F | # | | |
| Temperature | C | 04/15/2009 | N003 | 600 | - | 700 | 21.14 | | F | # | | |
| Tritium | pCi/L | 04/15/2009 | N003 | 600 | - | 700 | 32.6 | | UF | # | 158 | 96.6 |
| Turbidity | NTU | 04/15/2009 | N003 | 600 | - | 700 | 2.98 | | F | # | | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HM-3 WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/L | 04/14/2009 | N001 | 740 | - | 873 | 0.000058 | B | F | # | 0.000024 | |
| Arsenic | mg/L | 04/14/2009 | N001 | 740 | - | 873 | 0.0005 | | F | # | 0.00001 | |
| Barium | mg/L | 04/14/2009 | N001 | 740 | - | 873 | 0.19 | | F | # | 0.00018 | |
| Beryllium | mg/L | 04/14/2009 | N001 | 740 | - | 873 | 0.00015 | U | F | # | 0.00015 | |
| Cadmium | mg/L | 04/14/2009 | N001 | 740 | - | 873 | 0.000044 | B | UF | # | 0.000032 | |
| Cesium-137 | pCi/L | 04/14/2009 | N003 | 740 | - | 873 | 0 | U | F | # | 4.99 | 0 |
| Chromium | mg/L | 04/14/2009 | N001 | 740 | - | 873 | 0.11 | | F | # | 0.00055 | |
| Dissolved Oxygen | mg/L | 04/14/2009 | N003 | 740 | - | 873 | 0.61 | | F | # | | |
| Enriched Tritium | pCi/L | 04/14/2009 | N003 | 740 | - | 873 | 0.854 | | UF | # | 4.55 | 2.78 |
| Lead | mg/L | 04/14/2009 | N001 | 740 | - | 873 | 0.00066 | | UF | # | 0.000032 | |
| Mercury | mg/L | 04/14/2009 | N001 | 740 | - | 873 | 0.0000078 | U | F | # | 0.0000078 | |
| Nickel | mg/L | 04/14/2009 | N001 | 740 | - | 873 | 0.00095 | U | F | # | 0.00095 | |
| Oxidation Reduction Potential | mV | 04/14/2009 | N003 | 740 | - | 873 | -291.6 | | F | # | | |
| pH | s.u. | 04/14/2009 | N003 | 740 | - | 873 | 9.25 | | F | # | | |
| Selenium | mg/L | 04/14/2009 | N001 | 740 | - | 873 | 0.000056 | B | UF | # | 0.000018 | |
| Silver | mg/L | 04/14/2009 | N001 | 740 | - | 873 | 0.00083 | U | F | # | 0.00083 | |
| Specific Conductance | umhos /cm | 04/14/2009 | N003 | 740 | - | 873 | 1297 | | F | # | | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HM-3 WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Temperature | C | 04/14/2009 | N003 | 740 | - | 873 | 21.16 | | F | # | | |
| Tritium | pCi/L | 04/14/2009 | N003 | 740 | - | 873 | -39.1 | | UF | # | 158 | 94.9 |
| Turbidity | NTU | 04/14/2009 | N003 | 740 | - | 873 | 2.31 | | F | # | | |
| Zinc | mg/L | 04/14/2009 | N001 | 740 | - | 873 | 0.0057 | B | UF | # | 0.001 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HM-L WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/L | 04/14/2009 | N001 | 140 | - | 204 | 0.000024 | U | F | # | 0.000024 | |
| Arsenic | mg/L | 04/14/2009 | N001 | 140 | - | 204 | 0.00093 | | F | # | 0.00001 | |
| Barium | mg/L | 04/14/2009 | N001 | 140 | - | 204 | 0.44 | | F | # | 0.00018 | |
| Beryllium | mg/L | 04/14/2009 | N001 | 140 | - | 204 | 0.00015 | U | F | # | 0.00015 | |
| Cadmium | mg/L | 04/14/2009 | N001 | 140 | - | 204 | 0.000032 | U | F | # | 0.000032 | |
| Cesium-137 | pCi/L | 04/14/2009 | N003 | 140 | - | 204 | 0 | U | F | # | 4.94 | 0 |
| Chromium | mg/L | 04/14/2009 | N001 | 140 | - | 204 | 0.0027 | | F | # | 0.00055 | |
| Dissolved Oxygen | mg/L | 04/14/2009 | N003 | 140 | - | 204 | 0.63 | | F | # | | |
| Lead | mg/L | 04/14/2009 | N001 | 140 | - | 204 | 0.000047 | B | UF | # | 0.000032 | |
| Mercury | mg/L | 04/14/2009 | N001 | 140 | - | 204 | 0.0000078 | U | F | # | 0.0000078 | |
| Nickel | mg/L | 04/14/2009 | N001 | 140 | - | 204 | 0.0012 | B | F | # | 0.00095 | |
| Oxidation Reduction Potential | mV | 04/14/2009 | N003 | 140 | - | 204 | -170.1 | | F | # | | |
| pH | s.u. | 04/14/2009 | N003 | 140 | - | 204 | 8.47 | | F | # | | |
| Selenium | mg/L | 04/14/2009 | N001 | 140 | - | 204 | 0.000043 | B | UF | # | 0.000018 | |
| Silver | mg/L | 04/14/2009 | N001 | 140 | - | 204 | 0.00083 | U | F | # | 0.00083 | |
| Specific Conductance | umhos /cm | 04/14/2009 | N003 | 140 | - | 204 | 623 | | F | # | | |
| Temperature | C | 04/14/2009 | N003 | 140 | - | 204 | 20.35 | | F | # | | |
| Tritium | pCi/L | 04/14/2009 | N003 | 140 | - | 204 | 898 | | F | # | 158 | 114 |
| Turbidity | NTU | 04/14/2009 | N003 | 140 | - | 204 | 0.23 | | F | # | | |
| Zinc | mg/L | 04/14/2009 | N001 | 140 | - | 204 | 0.0016 | B | F | # | 0.001 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HM-L2 WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/L | 04/16/2009 | N001 | 10251.49 | - | 10251.49 | 0.000024 | U | FQ | # | 0.000024 | |
| Arsenic | mg/L | 04/16/2009 | N001 | 10251.49 | - | 10251.49 | 0.000079 | B | UFQ | # | 0.00001 | |
| Barium | mg/L | 04/16/2009 | N001 | 10251.49 | - | 10251.49 | 0.086 | | FQ | # | 0.00018 | |
| Beryllium | mg/L | 04/16/2009 | N001 | 10251.49 | - | 10251.49 | 0.00015 | U | FQ | # | 0.00015 | |
| Cadmium | mg/L | 04/16/2009 | N001 | 10251.49 | - | 10251.49 | 0.000049 | B | UFQ | # | 0.000032 | |
| Cesium-137 | pCi/L | 04/16/2009 | N003 | 10251.49 | - | 10251.49 | 0 | U | FQ | # | 4.6 | 0 |
| Chromium | mg/L | 04/16/2009 | N001 | 10251.49 | - | 10251.49 | 0.00055 | U | FQ | # | 0.00055 | |
| Dissolved Oxygen | mg/L | 04/16/2009 | N003 | 10251.49 | - | 10251.49 | 1.79 | | FQ | # | | |
| Lead | mg/L | 04/16/2009 | N001 | 10251.49 | - | 10251.49 | 0.000076 | B | UFQ | # | 0.000032 | |
| Mercury | mg/L | 04/16/2009 | N001 | 10251.49 | - | 10251.49 | 0.0000078 | U | FQ | # | 0.0000078 | |
| Nickel | mg/L | 04/16/2009 | N001 | 10251.49 | - | 10251.49 | 0.00095 | U | FQ | # | 0.00095 | |
| Oxidation Reduction Potential | mV | 04/16/2009 | N003 | 10251.49 | - | 10251.49 | -92.1 | | FQ | # | | |
| pH | s.u. | 04/16/2009 | N003 | 10251.49 | - | 10251.49 | 7.41 | | FQ | # | | |
| Selenium | mg/L | 04/16/2009 | N001 | 10251.49 | - | 10251.49 | 0.000038 | B | UFQ | # | 0.000018 | |
| Silver | mg/L | 04/16/2009 | N001 | 10251.49 | - | 10251.49 | 0.00083 | U | FQ | # | 0.00083 | |
| Specific Conductance | umhos /cm | 04/16/2009 | N003 | 10251.49 | - | 10251.49 | 381 | | FQ | # | | |
| Temperature | C | 04/16/2009 | N003 | 10251.49 | - | 10251.49 | 21.75 | | FQ | # | | |
| Tritium | pCi/L | 04/16/2009 | N003 | 10251.49 | - | 10251.49 | -19.5 | | UFQ | # | 158 | 95.4 |
| Turbidity | NTU | 04/16/2009 | N003 | 10251.49 | - | 10251.49 | 15.1 | | FQ | # | | |
| Zinc | mg/L | 04/16/2009 | N001 | 10251.49 | - | 10251.49 | 0.0022 | B | FQ | # | 0.001 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HM-S WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,1,1,2-Tetrachloroethane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,1,1-Trichloroethane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,1,1-Trichloroethane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloroethane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.2 | U | F | # | 0.2 | |
| 1,1,2-Trichloroethane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.2 | U | F | # | 0.2 | |
| 1,1-Dichloroethane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloroethane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloroethene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloroethene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloropropene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloropropene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,2,3-Trichlorobenzene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.2 | U | F | # | 0.2 | |
| 1,2,3-Trichlorobenzene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.2 | U | F | # | 0.2 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HM-S WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.49 | U | F | # | 0.49 | |
| 1,2,3-Trichloropropane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.49 | U | F | # | 0.49 | |
| 1,2,4-Trichlorobenzene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,2,4-Trichlorobenzene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,2,4-Trimethylbenzene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,2,4-Trimethylbenzene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.64 | U | F | # | 0.64 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.64 | U | F | # | 0.64 | |
| 1,2-Dibromoethane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dibromoethane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichlorobenzene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichlorobenzene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloroethane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloroethane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloropropane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloropropane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,3,5-Trimethylbenzene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,3,5-Trimethylbenzene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HM-S WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,3-Dichlorobenzene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,3-Dichloropropane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.18 | U | F | # | 0.18 | |
| 1,3-Dichloropropane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.18 | U | F | # | 0.18 | |
| 1,4-Dichlorobenzene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1,4-Dichlorobenzene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 1-Chlorohexane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.28 | U | F | # | 0.28 | |
| 1-Chlorohexane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.28 | U | F | # | 0.28 | |
| 2,2-Dichloropropane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 2,2-Dichloropropane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 2-Butanone | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 1.7 | U | F | # | 1.7 | |
| 2-Butanone | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 1.7 | U | F | # | 1.7 | |
| 2-Chlorotoluene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 2-Chlorotoluene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 2-Hexanone | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 3.3 | U | F | # | 3.3 | |
| 2-Hexanone | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 3.3 | U | F | # | 3.3 | |
| 4-Chlorotoluene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| 4-Chlorotoluene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HM-S WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 1.7 | U | F | # | 1.7 | |
| 4-Methyl-2-Pentanone | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 1.7 | U | F | # | 1.7 | |
| Acetone | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 3.4 | J | F | # | 3.3 | |
| Acetone | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 3.3 | U | F | # | 3.3 | |
| Antimony | mg/L | 04/14/2009 | N001 | 20 | - | 30 | 0.000024 | U | F | # | 0.000024 | |
| Antimony | mg/L | 04/14/2009 | N002 | 20 | - | 30 | 0.00004 | B | F | # | 0.000024 | |
| Arsenic | mg/L | 04/14/2009 | N001 | 20 | - | 30 | 0.000079 | B | UF | # | 0.00001 | |
| Arsenic | mg/L | 04/14/2009 | N002 | 20 | - | 30 | 0.000092 | B | UF | # | 0.00001 | |
| Barium | mg/L | 04/14/2009 | N001 | 20 | - | 30 | 0.031 | | F | # | 0.00018 | |
| Barium | mg/L | 04/14/2009 | N002 | 20 | - | 30 | 0.031 | | F | # | 0.00018 | |
| Benzene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.22 | J | F | # | 0.17 | |
| Benzene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.23 | J | F | # | 0.17 | |
| Beryllium | mg/L | 04/14/2009 | N001 | 20 | - | 30 | 0.00017 | B | UF | # | 0.00015 | |
| Beryllium | mg/L | 04/14/2009 | N002 | 20 | - | 30 | 0.00022 | B | UF | # | 0.00015 | |
| Bromobenzene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Bromobenzene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Bromochloromethane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.21 | U | F | # | 0.21 | |
| Bromochloromethane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.21 | U | F | # | 0.21 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HM-S WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Bromodichloromethane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Bromoform | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Bromoform | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Bromomethane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.25 | U | F | # | 0.25 | |
| Bromomethane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.25 | U | F | # | 0.25 | |
| Cadmium | mg/L | 04/14/2009 | N001 | 20 | - | 30 | 0.000033 | B | UF | # | 0.000032 | |
| Cadmium | mg/L | 04/14/2009 | N002 | 20 | - | 30 | 0.000047 | B | F | # | 0.000032 | |
| Carbon Disulfide | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Carbon Disulfide | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Carbon tetrachloride | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Carbon tetrachloride | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Cesium-137 | pCi/L | 04/14/2009 | N003 | 20 | - | 30 | 0 | U | F | # | 4.73 | 0 |
| Cesium-137 | pCi/L | 04/14/2009 | N004 | 20 | - | 30 | 0 | U | F | # | 4.44 | 0 |
| Chlorobenzene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Chlorobenzene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Chlorodibromomethane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Chlorodibromomethane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HM-S WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloroethane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.25 | U | F | # | 0.25 | |
| Chloroethane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.25 | U | F | # | 0.25 | |
| Chloroform | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Chloroform | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Chloromethane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Chloromethane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Chromium | mg/L | 04/14/2009 | N001 | 20 | - | 30 | 0.00089 | B | F | # | 0.00055 | |
| Chromium | mg/L | 04/14/2009 | N002 | 20 | - | 30 | 0.00063 | B | UF | # | 0.00055 | |
| cis-1,2-Dichloroethene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 3.9 | | F | # | 0.17 | |
| cis-1,2-Dichloroethene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 3.8 | | F | # | 0.17 | |
| cis-1,3-Dichloropropene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| cis-1,3-Dichloropropene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Dibromomethane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.18 | U | F | # | 0.18 | |
| Dibromomethane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.18 | U | F | # | 0.18 | |
| Dichlorodifluoromethane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Dichlorodifluoromethane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Dissolved Oxygen | mg/L | 04/14/2009 | N003 | 20 | - | 30 | 1.52 | | F | # | | |
| Enriched Tritium | pCi/L | 04/14/2009 | N003 | 20 | - | 30 | 357 | | F | # | 3.55 | 6.32 |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HM-S WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Enriched Tritium | pCi/L | 04/14/2009 | N004 | 20 | - | 30 | 366 | | F | # | 4.42 | 7.22 |
| Ethylbenzene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Ethylbenzene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Hexachlorobutadiene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.18 | U | F | # | 0.18 | |
| Hexachlorobutadiene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.18 | U | F | # | 0.18 | |
| Iodomethane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Iodomethane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Isopropylbenzene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Isopropylbenzene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Lead | mg/L | 04/14/2009 | N001 | 20 | - | 30 | 0.00012 | B | UF | # | 0.000032 | |
| Lead | mg/L | 04/14/2009 | N002 | 20 | - | 30 | 0.00029 | B | UF | # | 0.000032 | |
| m,p-Xylene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.19 | U | F | # | 0.19 | |
| m,p-Xylene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.19 | U | F | # | 0.19 | |
| Mercury | mg/L | 04/14/2009 | N001 | 20 | - | 30 | 0.0000078 | U | F | # | 0.0000078 | |
| Mercury | mg/L | 04/14/2009 | N002 | 20 | - | 30 | 0.0000078 | U | F | # | 0.0000078 | |
| Methylene chloride | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Methylene chloride | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| n-Butylbenzene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HM-S WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| n-Propylbenzene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| n-Propylbenzene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Naphthalene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Naphthalene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Nickel | mg/L | 04/14/2009 | N001 | 20 | - | 30 | 0.00095 | U | F | # | 0.00095 | |
| Nickel | mg/L | 04/14/2009 | N002 | 20 | - | 30 | 0.00095 | U | F | # | 0.00095 | |
| o-Xylene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| o-Xylene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Oxidation Reduction Potential | mV | 04/14/2009 | N003 | 20 | - | 30 | 3.2 | | F | # | | |
| p-Isopropyltoluene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| p-Isopropyltoluene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| pH | s.u. | 04/14/2009 | N003 | 20 | - | 30 | 5.73 | | F | # | | |
| Propane, 2-methoxy-2-methyl- | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.24 | U | F | # | 0.24 | |
| Propane, 2-methoxy-2-methyl- | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.24 | U | F | # | 0.24 | |
| sec-Butylbenzene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| sec-Butylbenzene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Selenium | mg/L | 04/14/2009 | N001 | 20 | - | 30 | 0.000066 | B | UF | # | 0.000018 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HM-S WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Selenium | mg/L | 04/14/2009 | N002 | 20 | - | 30 | 0.000069 | B | UF | # | 0.000018 | |
| Silver | mg/L | 04/14/2009 | N001 | 20 | - | 30 | 0.00083 | U | F | # | 0.00083 | |
| Silver | mg/L | 04/14/2009 | N002 | 20 | - | 30 | 0.00083 | U | F | # | 0.00083 | |
| Specific Conductance | umhos /cm | 04/14/2009 | N003 | 20 | - | 30 | 1084 | | F | # | | |
| Styrene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Styrene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Temperature | C | 04/14/2009 | N003 | 20 | - | 30 | 19.66 | | F | # | | |
| tert-Butylbenzene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.18 | U | F | # | 0.18 | |
| tert-Butylbenzene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.18 | U | F | # | 0.18 | |
| Tetrachloroethene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Tetrachloroethene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Toluene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Toluene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| trans-1,2-Dichloroethene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.49 | J | F | # | 0.17 | |
| trans-1,2-Dichloroethene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.49 | J | F | # | 0.17 | |
| trans-1,3-dichloropropene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| trans-1,3-dichloropropene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Trichloroethene | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 1.7 | | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HM-S WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 1.7 | | F | # | 0.17 | |
| Trichlorofluoromethane | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Trichlorofluoromethane | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Tritium | pCi/L | 04/14/2009 | N003 | 20 | - | 30 | 361 | | FJ | # | 158 | 104 |
| Tritium | pCi/L | 04/14/2009 | N004 | 20 | - | 30 | 337 | | FJ | # | 157 | 103 |
| Turbidity | NTU | 04/14/2009 | N003 | 20 | - | 30 | 93.8 | | F | # | | |
| Vinyl Acetate | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.27 | U | F | # | 0.27 | |
| Vinyl Acetate | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.27 | U | F | # | 0.27 | |
| Vinyl chloride | ug/L | 04/14/2009 | N001 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Vinyl chloride | ug/L | 04/14/2009 | N002 | 20 | - | 30 | 0.17 | U | F | # | 0.17 | |
| Zinc | mg/L | 04/14/2009 | N001 | 20 | - | 30 | 0.0018 | B | F | # | 0.001 | |
| Zinc | mg/L | 04/14/2009 | N002 | 20 | - | 30 | 0.002 | B | UF | # | 0.001 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HMH-16R WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| 1,1,1-Trichloroethane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloroethane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.2 | U | F | # | 0.2 | |
| 1,1-Dichloroethane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloroethene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloropropene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| 1,2,3-Trichlorobenzene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.2 | U | F | # | 0.2 | |
| 1,2,3-Trichloropropane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.49 | U | F | # | 0.49 | |
| 1,2,4-Trichlorobenzene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| 1,2,4-Trimethylbenzene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.64 | U | F | # | 0.64 | |
| 1,2-Dibromoethane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichlorobenzene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloroethane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloropropane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| 1,3,5-Trimethylbenzene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HMH-16R WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| 1,3-Dichloropropane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.18 | U | F | # | 0.18 | |
| 1,4-Dichlorobenzene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| 1-Chlorohexane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.28 | U | F | # | 0.28 | |
| 2,2-Dichloropropane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| 2-Butanone | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 1.7 | U | F | # | 1.7 | |
| 2-Chlorotoluene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| 2-Hexanone | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 3.3 | U | F | # | 3.3 | |
| 4-Chlorotoluene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| 4-Methyl-2-Pentanone | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 1.7 | U | F | # | 1.7 | |
| Acetone | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 3.3 | U | F | # | 3.3 | |
| Antimony | mg/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.000024 | U | F | # | 0.000024 | |
| Arsenic | mg/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.00015 | | UF | # | 0.00001 | |
| Barium | mg/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.43 | | F | # | 0.00018 | |
| Benzene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Beryllium | mg/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.00015 | U | F | # | 0.00015 | |
| Bromobenzene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Bromochloromethane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.21 | U | F | # | 0.21 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HMH-16R WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Bromoform | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Bromomethane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.25 | U | F | # | 0.25 | |
| Cadmium | mg/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.000056 | B | UF | # | 0.000032 | |
| Carbon Disulfide | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Carbon tetrachloride | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Chlorobenzene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Chlorodibromomethane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Chloroethane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.25 | U | F | # | 0.25 | |
| Chloroform | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Chloromethane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Chromium | mg/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.0008 | B | F | # | 0.00055 | |
| cis-1,2-Dichloroethene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| cis-1,3-Dichloropropene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Dibromomethane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.18 | U | F | # | 0.18 | |
| Dichlorodifluoromethane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Dissolved Oxygen | mg/L | 04/16/2009 | N003 | 15 | - | 24.9 | 2.14 | | F | # | | |
| Enriched Tritium | pCi/L | 04/16/2009 | N003 | 15 | - | 24.9 | 22 | | F | # | 3.96 | 2.86 |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HMH-16R WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Hexachlorobutadiene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.18 | U | F | # | 0.18 | |
| Iodomethane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Isopropylbenzene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Lead | mg/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.00007 | B | UF | # | 0.000032 | |
| m,p-Xylene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.19 | U | F | # | 0.19 | |
| Mercury | mg/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.0000078 | U | F | # | 0.0000078 | |
| Methylene chloride | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| n-Butylbenzene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| n-Propylbenzene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Naphthalene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Nickel | mg/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.0026 | B | F | # | 0.00095 | |
| o-Xylene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Oxidation Reduction Potential | mV | 04/16/2009 | N003 | 15 | - | 24.9 | 170.7 | | F | # | | |
| p-Isopropyltoluene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| pH | s.u. | 04/16/2009 | N003 | 15 | - | 24.9 | 6.59 | | F | # | | |
| Propane, 2-methoxy-2-methyl- | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.24 | U | F | # | 0.24 | |
| sec-Butylbenzene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HMH-16R WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Selenium | mg/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.000045 | B | UF | # | 0.000018 | |
| Silver | mg/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.00083 | U | F | # | 0.00083 | |
| Specific Conductance | umhos /cm | 04/16/2009 | N003 | 15 | - | 24.9 | 924 | | F | # | | |
| Styrene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Temperature | C | 04/16/2009 | N003 | 15 | - | 24.9 | 17.71 | | F | # | | |
| tert-Butylbenzene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.18 | U | F | # | 0.18 | |
| Tetrachloroethene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Toluene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| trans-1,2-Dichloroethene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| trans-1,3-dichloropropene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Trichloroethene | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Trichlorofluoromethane | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Tritium | pCi/L | 04/16/2009 | N003 | 15 | - | 24.9 | 19.5 | | UF | # | 158 | 96.3 |
| Turbidity | NTU | 04/16/2009 | N003 | 15 | - | 24.9 | 5.75 | | F | # | | |
| Vinyl Acetate | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.27 | U | F | # | 0.27 | |
| Vinyl chloride | ug/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.17 | U | F | # | 0.17 | |
| Zinc | mg/L | 04/16/2009 | N001 | 15 | - | 24.9 | 0.0045 | B | F | # | 0.001 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HMH-5R WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| 1,1,1-Trichloroethane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloroethane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.2 | U | F | # | 0.2 | |
| 1,1-Dichloroethane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloroethene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.45 | J | F | # | 0.17 | |
| 1,1-Dichloropropene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| 1,2,3-Trichlorobenzene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.2 | U | F | # | 0.2 | |
| 1,2,3-Trichloropropane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.49 | U | F | # | 0.49 | |
| 1,2,4-Trichlorobenzene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| 1,2,4-Trimethylbenzene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.64 | U | F | # | 0.64 | |
| 1,2-Dibromoethane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichlorobenzene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloroethane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloropropane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| 1,3,5-Trimethylbenzene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HMH-5R WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| 1,3-Dichloropropane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.18 | U | F | # | 0.18 | |
| 1,4-Dichlorobenzene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| 1-Chlorohexane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.28 | U | F | # | 0.28 | |
| 2,2-Dichloropropane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| 2-Butanone | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 1.7 | U | F | # | 1.7 | |
| 2-Chlorotoluene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| 2-Hexanone | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 3.3 | U | F | # | 3.3 | |
| 4-Chlorotoluene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| 4-Methyl-2-Pentanone | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 1.7 | U | F | # | 1.7 | |
| Acetone | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 3.3 | U | F | # | 3.3 | |
| Antimony | mg/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.000036 | B | F | # | 0.000024 | |
| Arsenic | mg/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.0019 | | F | # | 0.00001 | |
| Barium | mg/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.28 | | F | # | 0.00018 | |
| Benzene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Beryllium | mg/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.00015 | U | F | # | 0.00015 | |
| Bromobenzene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Bromochloromethane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.21 | U | F | # | 0.21 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HMH-5R WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Bromoform | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Bromomethane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.25 | U | F | # | 0.25 | |
| Cadmium | mg/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.000092 | B | UF | # | 0.000032 | |
| Carbon Disulfide | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Carbon tetrachloride | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Chlorobenzene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Chlorodibromomethane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Chloroethane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.25 | U | F | # | 0.25 | |
| Chloroform | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Chloromethane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Chromium | mg/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.00093 | B | F | # | 0.00055 | |
| cis-1,2-Dichloroethene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 76 | | F | # | 0.17 | |
| cis-1,3-Dichloropropene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Dibromomethane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.18 | U | F | # | 0.18 | |
| Dichlorodifluoromethane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Dissolved Oxygen | mg/L | 04/15/2009 | N003 | 20 | - | 29.4 | 1.07 | | F | # | | |
| Ethylbenzene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HMH-5R WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.18 | U | F | # | 0.18 | |
| Iodomethane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Isopropylbenzene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Lead | mg/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.00014 | B | UF | # | 0.000032 | |
| m,p-Xylene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.19 | U | F | # | 0.19 | |
| Mercury | mg/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.0000078 | U | F | # | 0.0000078 | |
| Methylene chloride | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| n-Butylbenzene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| n-Propylbenzene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Naphthalene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Nickel | mg/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.0012 | B | F | # | 0.00095 | |
| o-Xylene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Oxidation Reduction Potential | mV | 04/15/2009 | N003 | 20 | - | 29.4 | 97.8 | | F | # | | |
| p-Isopropyltoluene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| pH | s.u. | 04/15/2009 | N003 | 20 | - | 29.4 | 5.33 | | F | # | | |
| Propane, 2-methoxy-2-methyl- | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.24 | U | F | # | 0.24 | |
| sec-Butylbenzene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Selenium | mg/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.000056 | B | UF | # | 0.000018 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HMH-5R WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | mg/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.00083 | U | F | # | 0.00083 | |
| Specific Conductance | umhos /cm | 04/15/2009 | N003 | 20 | - | 29.4 | 442 | | F | # | | |
| Styrene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Temperature | C | 04/15/2009 | N003 | 20 | - | 29.4 | 17.44 | | F | # | | |
| tert-Butylbenzene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.18 | U | F | # | 0.18 | |
| Tetrachloroethene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Toluene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| trans-1,2-Dichloroethene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 4.5 | | F | # | 0.17 | |
| trans-1,3-dichloropropene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Trichloroethene | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 170 | | F | # | 1.7 | |
| Trichlorofluoromethane | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Tritium | pCi/L | 04/15/2009 | N003 | 20 | - | 29.4 | 2060 | | F | # | 158 | 135 |
| Turbidity | NTU | 04/15/2009 | N003 | 20 | - | 29.4 | 46.4 | | F | # | | |
| Vinyl Acetate | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.27 | U | F | # | 0.27 | |
| Vinyl chloride | ug/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.17 | U | F | # | 0.17 | |
| Zinc | mg/L | 04/15/2009 | N001 | 20 | - | 29.4 | 0.006 | B | UF | # | 0.001 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-1-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,1-Trichloroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.2 | U | F | # | 0.2 | |
| 1,1-Dichloroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloroethene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloropropene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2,3-Trichlorobenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.2 | U | F | # | 0.2 | |
| 1,2,3-Trichloropropane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.49 | U | F | # | 0.49 | |
| 1,2,4-Trichlorobenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2,4-Trimethylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.64 | U | F | # | 0.64 | |
| 1,2-Dibromoethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichlorobenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloropropane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,3,5-Trimethylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-1-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,3-Dichloropropane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| 1,4-Dichlorobenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1-Chlorohexane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.28 | U | F | # | 0.28 | |
| 2,2-Dichloropropane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 2-Butanone | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 1.7 | U | F | # | 1.7 | |
| 2-Chlorotoluene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 2-Hexanone | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 3.3 | U | F | # | 3.3 | |
| 4-Chlorotoluene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 4-Methyl-2-Pentanone | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 1.7 | U | F | # | 1.7 | |
| Acetone | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 3.3 | U | F | # | 3.3 | |
| Antimony | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.000024 | U | F | # | 0.000024 | |
| Arsenic | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.0036 | | F | # | 0.00001 | |
| Barium | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.2 | | F | # | 0.00018 | |
| Benzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Beryllium | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.00058 | B | F | # | 0.00015 | |
| Bromobenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromochloromethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.21 | U | F | # | 0.21 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-1-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromoform | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromomethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.25 | U | F | # | 0.25 | |
| Cadmium | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.000038 | B | UF | # | 0.000032 | |
| Carbon Disulfide | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Carbon tetrachloride | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chlorobenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chlorodibromomethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chloroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.25 | U | F | # | 0.25 | |
| Chloroform | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chloromethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chromium | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.00055 | U | FJ | # | 0.00055 | |
| cis-1,2-Dichloroethene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 3.1 | | F | # | 0.17 | |
| cis-1,3-Dichloropropene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Dibromomethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Dichlorodifluoromethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Ethylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Hexachlorobutadiene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-1-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Iodomethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Isopropylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Lead | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.00011 | B | UF | # | 0.000032 | |
| m,p-Xylene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.19 | U | F | # | 0.19 | |
| Mercury | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.0000078 | U | F | # | 0.0000078 | |
| Methylene chloride | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| n-Butylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| n-Propylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Naphthalene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Nickel | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.0017 | B | FJ | # | 0.00095 | |
| o-Xylene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Oxidation Reduction Potential | mV | 04/14/2009 | N003 | 10 | - | 29.5 | -34.1 | | F | # | | |
| p-Isopropyltoluene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| pH | s.u. | 04/14/2009 | N003 | 10 | - | 29.5 | 5.51 | | F | # | | |
| Propane, 2-methoxy-2-methyl- | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.24 | U | F | # | 0.24 | |
| sec-Butylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Selenium | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.000069 | B | UF | # | 0.000018 | |
| Silver | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.00083 | U | F | # | 0.00083 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-1-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Specific Conductance | umhos /cm | 04/14/2009 | N003 | 10 | - | 29.5 | 730 | | F | # | | |
| Styrene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Temperature | C | 04/14/2009 | N003 | 10 | - | 29.5 | 16.48 | | F | # | | |
| tert-Butylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Tetrachloroethene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Toluene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| trans-1,2-Dichloroethene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.9 | J | F | # | 0.17 | |
| trans-1,3-dichloropropene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Trichloroethene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 1.5 | | F | # | 0.17 | |
| Trichlorofluoromethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Tritium | pCi/L | 04/14/2009 | N003 | 10 | - | 29.5 | 2110 | | F | # | 158 | 135 |
| Turbidity | NTU | 04/14/2009 | N003 | 10 | - | 29.5 | 2.27 | | F | # | | |
| Vinyl Acetate | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.27 | U | F | # | 0.27 | |
| Vinyl chloride | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Zinc | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.004 | B | F | # | 0.001 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-11-3 WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cesium-137 | pCi/L | 04/15/2009 | N003 | 843.2 | - | 903.2 | 0 | U | F | # | 4.73 | 0 |
| Oxidation Reduction Potential | mV | 04/15/2009 | N003 | 843.2 | - | 903.2 | -330.4 | | F | # | | |
| pH | s.u. | 04/15/2009 | N003 | 843.2 | - | 903.2 | 8.2 | | F | # | | |
| Specific Conductance | umhos /cm | 04/15/2009 | N003 | 843.2 | - | 903.2 | 1034 | | F | # | | |
| Temperature | C | 04/15/2009 | N003 | 843.2 | - | 903.2 | 18.8 | | F | # | | |
| Tritium | pCi/L | 04/15/2009 | N003 | 843.2 | - | 903.2 | 35.7 | | UF | # | 157 | 96.3 |
| Turbidity | NTU | 04/15/2009 | N003 | 843.2 | - | 903.2 | 0.76 | | F | # | | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-12-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,1-Trichloroethane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloroethane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.2 | U | F | # | 0.2 | |
| 1,1-Dichloroethane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloroethene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloropropene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2,3-Trichlorobenzene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.2 | U | F | # | 0.2 | |
| 1,2,3-Trichloropropane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.49 | U | F | # | 0.49 | |
| 1,2,4-Trichlorobenzene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2,4-Trimethylbenzene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.64 | U | F | # | 0.64 | |
| 1,2-Dibromoethane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichlorobenzene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloroethane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloropropane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,3,5-Trimethylbenzene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-12-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,3-Dichloropropane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| 1,4-Dichlorobenzene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1-Chlorohexane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.28 | U | F | # | 0.28 | |
| 2,2-Dichloropropane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 2-Butanone | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 1.7 | U | F | # | 1.7 | |
| 2-Chlorotoluene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 2-Hexanone | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 3.3 | U | F | # | 3.3 | |
| 4-Chlorotoluene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 4-Methyl-2-Pentanone | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 1.7 | U | F | # | 1.7 | |
| Acetone | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 3.3 | U | F | # | 3.3 | |
| Antimony | mg/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.000024 | U | F | # | 0.000024 | |
| Arsenic | mg/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.000089 | B | UF | # | 0.00001 | |
| Barium | mg/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.37 | | F | # | 0.00018 | |
| Benzene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Beryllium | mg/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.00015 | U | F | # | 0.00015 | |
| Bromobenzene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromochloromethane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.21 | U | F | # | 0.21 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-12-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromoform | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromomethane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.25 | U | F | # | 0.25 | |
| Cadmium | mg/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.000054 | B | UF | # | 0.000032 | |
| Carbon Disulfide | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Carbon tetrachloride | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chlorobenzene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chlorodibromomethane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chloroethane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.25 | U | F | # | 0.25 | |
| Chloroform | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chloromethane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chromium | mg/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.0034 | | F | # | 0.00055 | |
| cis-1,2-Dichloroethene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| cis-1,3-Dichloropropene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Dibromomethane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Dichlorodifluoromethane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Dissolved Oxygen | mg/L | 04/16/2009 | N003 | 22 | - | 29.5 | 1.55 | | F | # | | |
| Ethylbenzene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-12-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Iodomethane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Isopropylbenzene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Lead | mg/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.000072 | B | UF | # | 0.000032 | |
| m,p-Xylene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.19 | U | F | # | 0.19 | |
| Mercury | mg/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.0000078 | U | F | # | 0.0000078 | |
| Methylene chloride | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| n-Butylbenzene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| n-Propylbenzene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Naphthalene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Nickel | mg/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.0096 | B | F | # | 0.00095 | |
| o-Xylene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Oxidation Reduction Potential | mV | 04/16/2009 | N003 | 22 | - | 29.5 | 101.6 | | F | # | | |
| p-Isopropyltoluene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| pH | s.u. | 04/16/2009 | N003 | 22 | - | 29.5 | 6.6 | | F | # | | |
| Propane, 2-methoxy-2-methyl- | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.24 | U | F | # | 0.24 | |
| sec-Butylbenzene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Selenium | mg/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.000044 | B | UF | # | 0.000018 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-12-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | mg/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.00083 | U | F | # | 0.00083 | |
| Specific Conductance | umhos /cm | 04/16/2009 | N003 | 22 | - | 29.5 | 489 | | F | # | | |
| Styrene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Temperature | C | 04/16/2009 | N003 | 22 | - | 29.5 | 18.18 | | F | # | | |
| tert-Butylbenzene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Tetrachloroethene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Toluene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| trans-1,2-Dichloroethene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| trans-1,3-dichloropropene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Trichloroethene | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Trichlorofluoromethane | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Tritium | pCi/L | 04/16/2009 | N003 | 22 | - | 29.5 | 3.24 | | UF | # | 157 | 95.6 |
| Turbidity | NTU | 04/16/2009 | N003 | 22 | - | 29.5 | 3.43 | | F | # | | |
| Vinyl Acetate | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.27 | U | F | # | 0.27 | |
| Vinyl chloride | ug/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Zinc | mg/L | 04/16/2009 | N001 | 22 | - | 29.5 | 0.0051 | B | F | # | 0.001 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-2-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,1-Trichloroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.2 | U | F | # | 0.2 | |
| 1,1-Dichloroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloroethene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloropropene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2,3-Trichlorobenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.2 | U | F | # | 0.2 | |
| 1,2,3-Trichloropropane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.49 | U | F | # | 0.49 | |
| 1,2,4-Trichlorobenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2,4-Trimethylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.64 | U | F | # | 0.64 | |
| 1,2-Dibromoethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichlorobenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloropropane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,3,5-Trimethylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-2-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,3-Dichloropropane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| 1,4-Dichlorobenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1-Chlorohexane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.28 | U | F | # | 0.28 | |
| 2,2-Dichloropropane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 2-Butanone | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 1.7 | U | F | # | 1.7 | |
| 2-Chlorotoluene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 2-Hexanone | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 3.3 | U | F | # | 3.3 | |
| 4-Chlorotoluene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 4-Methyl-2-Pentanone | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 1.7 | U | F | # | 1.7 | |
| Acetone | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 3.3 | U | F | # | 3.3 | |
| Antimony | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.000027 | B | F | # | 0.000024 | |
| Arsenic | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.0078 | | F | # | 0.00001 | |
| Barium | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.066 | | F | # | 0.00018 | |
| Benzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Beryllium | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.00017 | B | F | # | 0.00015 | |
| Bromobenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromochloromethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.21 | U | F | # | 0.21 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-2-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromoform | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromomethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.25 | U | F | # | 0.25 | |
| Cadmium | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.000037 | B | F | # | 0.000032 | |
| Carbon Disulfide | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Carbon tetrachloride | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chlorobenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chlorodibromomethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chloroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.25 | U | F | # | 0.25 | |
| Chloroform | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chloromethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chromium | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.00055 | U | FJ | # | 0.00055 | |
| cis-1,2-Dichloroethene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 10 | | F | # | 0.17 | |
| cis-1,3-Dichloropropene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Dibromomethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Dichlorodifluoromethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Ethylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Hexachlorobutadiene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-2-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Iodomethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Isopropylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Lead | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.00033 | B | UF | # | 0.000032 | |
| m,p-Xylene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.19 | U | F | # | 0.19 | |
| Mercury | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.0000078 | U | F | # | 0.0000078 | |
| Methylene chloride | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| n-Butylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| n-Propylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Naphthalene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Nickel | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.0017 | B | F | # | 0.00095 | |
| o-Xylene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Oxidation Reduction Potential | mV | 04/14/2009 | N003 | 10 | - | 29.5 | 42.1 | | F | # | | |
| p-Isopropyltoluene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| pH | s.u. | 04/14/2009 | N003 | 10 | - | 29.5 | 5.45 | | F | # | | |
| Propane, 2-methoxy-2-methyl- | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.24 | U | F | # | 0.24 | |
| sec-Butylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Selenium | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.000067 | B | UF | # | 0.000018 | |
| Silver | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.00083 | U | F | # | 0.00083 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-2-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Specific Conductance | umhos /cm | 04/14/2009 | N003 | 10 | - | 29.5 | 1031 | | F | # | | |
| Styrene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Temperature | C | 04/14/2009 | N003 | 10 | - | 29.5 | 15.46 | | F | # | | |
| tert-Butylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Tetrachloroethene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.47 | J | F | # | 0.17 | |
| Toluene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| trans-1,2-Dichloroethene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.79 | J | F | # | 0.17 | |
| trans-1,3-dichloropropene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Trichloroethene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.81 | J | F | # | 0.17 | |
| Trichlorofluoromethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Tritium | pCi/L | 04/14/2009 | N003 | 10 | - | 29.5 | 332 | | FJ | # | 158 | 103 |
| Turbidity | NTU | 04/14/2009 | N003 | 10 | - | 29.5 | 94.3 | | F | # | | |
| Vinyl Acetate | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.27 | U | F | # | 0.27 | |
| Vinyl chloride | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.66 | J | F | # | 0.17 | |
| Zinc | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.0045 | B | F | # | 0.001 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-3-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,1,2-Tetrachloroethane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,1-Trichloroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,1-Trichloroethane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.2 | U | F | # | 0.2 | |
| 1,1,2-Trichloroethane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.2 | U | F | # | 0.2 | |
| 1,1-Dichloroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloroethane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloroethene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloroethene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloropropene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloropropene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2,3-Trichlorobenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.2 | U | F | # | 0.2 | |
| 1,2,3-Trichlorobenzene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.2 | U | F | # | 0.2 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-3-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.49 | U | F | # | 0.49 | |
| 1,2,3-Trichloropropane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.49 | U | F | # | 0.49 | |
| 1,2,4-Trichlorobenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2,4-Trichlorobenzene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2,4-Trimethylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2,4-Trimethylbenzene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.64 | U | F | # | 0.64 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.64 | U | F | # | 0.64 | |
| 1,2-Dibromoethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dibromoethane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichlorobenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichlorobenzene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloroethane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloropropane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloropropane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,3,5-Trimethylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,3,5-Trimethylbenzene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-3-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,3-Dichlorobenzene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,3-Dichloropropane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| 1,3-Dichloropropane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| 1,4-Dichlorobenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,4-Dichlorobenzene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1-Chlorohexane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.28 | U | F | # | 0.28 | |
| 1-Chlorohexane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.28 | U | F | # | 0.28 | |
| 2,2-Dichloropropane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 2,2-Dichloropropane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 2-Butanone | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 1.7 | U | F | # | 1.7 | |
| 2-Butanone | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 1.7 | U | F | # | 1.7 | |
| 2-Chlorotoluene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 2-Chlorotoluene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 2-Hexanone | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 3.3 | U | F | # | 3.3 | |
| 2-Hexanone | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 3.3 | U | F | # | 3.3 | |
| 4-Chlorotoluene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 4-Chlorotoluene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-3-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 1.7 | U | F | # | 1.7 | |
| 4-Methyl-2-Pentanone | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 1.7 | U | F | # | 1.7 | |
| Acetone | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 3.3 | U | F | # | 3.3 | |
| Acetone | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 3.3 | U | F | # | 3.3 | |
| Antimony | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.000034 | B | F | # | 0.000024 | |
| Antimony | mg/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.000078 | B | F | # | 0.000024 | |
| Arsenic | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.014 | | F | # | 0.00001 | |
| Arsenic | mg/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.017 | | F | # | 0.00001 | |
| Barium | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.059 | | F | # | 0.00018 | |
| Barium | mg/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.059 | | F | # | 0.00018 | |
| Benzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.75 | J | F | # | 0.17 | |
| Benzene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.77 | J | F | # | 0.17 | |
| Beryllium | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.00031 | B | F | # | 0.00015 | |
| Beryllium | mg/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.00045 | B | UF | # | 0.00015 | |
| Bromobenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromobenzene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromochloromethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.21 | U | F | # | 0.21 | |
| Bromochloromethane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.21 | U | F | # | 0.21 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-3-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromodichloromethane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromoform | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromoform | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromomethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.25 | U | F | # | 0.25 | |
| Bromomethane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.25 | U | F | # | 0.25 | |
| Cadmium | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.000054 | B | F | # | 0.000032 | |
| Cadmium | mg/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.000084 | B | F | # | 0.000032 | |
| Carbon Disulfide | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Carbon Disulfide | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Carbon tetrachloride | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Carbon tetrachloride | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chlorobenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chlorobenzene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chlorodibromomethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chlorodibromomethane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chloroethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.25 | U | F | # | 0.25 | |
| Chloroethane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.25 | U | F | # | 0.25 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-3-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloroform | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chloroform | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chloromethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chloromethane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chromium | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.0023 | | FJ | # | 0.00055 | |
| Chromium | mg/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.0038 | | F | # | 0.00055 | |
| cis-1,2-Dichloroethene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 32 | | F | # | 0.17 | |
| cis-1,2-Dichloroethene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 32 | | F | # | 0.17 | |
| cis-1,3-Dichloropropene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| cis-1,3-Dichloropropene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Dibromomethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Dibromomethane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Dichlorodifluoromethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Dichlorodifluoromethane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Enriched Tritium | pCi/L | 04/14/2009 | N003 | 10 | - | 29.5 | 284 | | F | # | 3.62 | 5.78 |
| Enriched Tritium | pCi/L | 04/14/2009 | N004 | 10 | - | 29.5 | 277 | | F | # | 3.93 | 5.99 |
| Ethylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Ethylbenzene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-3-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Hexachlorobutadiene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Iodomethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Iodomethane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Isopropylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Isopropylbenzene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Lead | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.00048 | B | F | # | 0.000032 | |
| Lead | mg/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.00021 | B | UF | # | 0.000032 | |
| m,p-Xylene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.19 | U | F | # | 0.19 | |
| m,p-Xylene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.19 | U | F | # | 0.19 | |
| Mercury | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.0000078 | U | F | # | 0.0000078 | |
| Mercury | mg/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.0000078 | U | F | # | 0.0000078 | |
| Methylene chloride | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Methylene chloride | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| n-Butylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| n-Butylbenzene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| n-Propylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| n-Propylbenzene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-3-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Naphthalene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Nickel | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.00095 | U | F | # | 0.00095 | |
| Nickel | mg/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.0012 | B | F | # | 0.00095 | |
| o-Xylene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| o-Xylene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Oxidation Reduction Potential | mV | 04/14/2009 | N003 | 10 | - | 29.5 | -94 | | F | # | | |
| p-Isopropyltoluene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| p-Isopropyltoluene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| pH | s.u. | 04/14/2009 | N003 | 10 | - | 29.5 | 6.28 | | F | # | | |
| Propane, 2-methoxy-2-methyl- | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.24 | U | F | # | 0.24 | |
| Propane, 2-methoxy-2-methyl- | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.24 | U | F | # | 0.24 | |
| sec-Butylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| sec-Butylbenzene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Selenium | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.000096 | B | UF | # | 0.000018 | |
| Selenium | mg/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.000098 | B | UF | # | 0.000018 | |
| Silver | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.00083 | U | F | # | 0.00083 | |
| Silver | mg/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.00083 | U | F | # | 0.00083 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-3-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Specific Conductance | umhos /cm | 04/14/2009 | N003 | 10 | - | 29.5 | 2575 | | F | # | | |
| Styrene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Styrene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Temperature | C | 04/14/2009 | N003 | 10 | - | 29.5 | 16.11 | | F | # | | |
| tert-Butylbenzene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| tert-Butylbenzene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Tetrachloroethene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Tetrachloroethene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Toluene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Toluene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| trans-1,2-Dichloroethene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 14 | | F | # | 0.17 | |
| trans-1,2-Dichloroethene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 14 | | F | # | 0.17 | |
| trans-1,3-dichloropropene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| trans-1,3-dichloropropene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Trichloroethene | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 1.1 | | F | # | 0.17 | |
| Trichloroethene | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 1.1 | | F | # | 0.17 | |
| Trichlorofluoromethane | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Trichlorofluoromethane | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-3-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tritium | pCi/L | 04/14/2009 | N003 | 10 | - | 29.5 | 311 | | FJ | # | 157 | 102 |
| Tritium | pCi/L | 04/14/2009 | N004 | 10 | - | 29.5 | 328 | | FJ | # | 157 | 103 |
| Turbidity | NTU | 04/14/2009 | N003 | 10 | - | 29.5 | 1.4 | | F | # | | |
| Vinyl Acetate | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.27 | U | F | # | 0.27 | |
| Vinyl Acetate | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.27 | U | F | # | 0.27 | |
| Vinyl chloride | ug/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.77 | J | F | # | 0.17 | |
| Vinyl chloride | ug/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.78 | J | F | # | 0.17 | |
| Zinc | mg/L | 04/14/2009 | N001 | 10 | - | 29.5 | 0.001 | U | F | # | 0.001 | |
| Zinc | mg/L | 04/14/2009 | N002 | 10 | - | 29.5 | 0.0078 | B | F | # | 0.001 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-4-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,1-Trichloroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.2 | U | F | # | 0.2 | |
| 1,1-Dichloroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloroethene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloropropene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2,3-Trichlorobenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.2 | U | F | # | 0.2 | |
| 1,2,3-Trichloropropane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.49 | U | F | # | 0.49 | |
| 1,2,4-Trichlorobenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2,4-Trimethylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.64 | U | F | # | 0.64 | |
| 1,2-Dibromoethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichlorobenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloropropane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,3,5-Trimethylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-4-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,3-Dichloropropane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| 1,4-Dichlorobenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1-Chlorohexane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.28 | U | F | # | 0.28 | |
| 2,2-Dichloropropane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 2-Butanone | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 1.7 | U | F | # | 1.7 | |
| 2-Chlorotoluene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 2-Hexanone | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 3.3 | U | F | # | 3.3 | |
| 4-Chlorotoluene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 4-Methyl-2-Pentanone | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 1.7 | U | F | # | 1.7 | |
| Acetone | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 3.3 | U | F | # | 3.3 | |
| Antimony | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.000024 | U | F | # | 0.000024 | |
| Arsenic | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.00037 | | F | # | 0.00001 | |
| Barium | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.32 | | F | # | 0.00018 | |
| Benzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Beryllium | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.00019 | B | F | # | 0.00015 | |
| Bromobenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromochloromethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.21 | U | F | # | 0.21 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-4-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromoform | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromomethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.25 | U | F | # | 0.25 | |
| Cadmium | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.000032 | U | F | # | 0.000032 | |
| Carbon Disulfide | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Carbon tetrachloride | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chlorobenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chlorodibromomethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chloroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.25 | U | F | # | 0.25 | |
| Chloroform | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chloromethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chromium | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.00055 | U | FJ | # | 0.00055 | |
| cis-1,2-Dichloroethene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.29 | J | F | # | 0.17 | |
| cis-1,3-Dichloropropene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Dibromomethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Dichlorodifluoromethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Dissolved Oxygen | mg/L | 04/15/2009 | N003 | 10 | - | 29.5 | 0.69 | | F | # | | |
| Ethylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-4-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Iodomethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Isopropylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Lead | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.000032 | U | F | # | 0.000032 | |
| m,p-Xylene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.19 | U | F | # | 0.19 | |
| Mercury | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.0000078 | U | F | # | 0.0000078 | |
| Methylene chloride | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| n-Butylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| n-Propylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Naphthalene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Nickel | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.00095 | U | F | # | 0.00095 | |
| o-Xylene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Oxidation Reduction Potential | mV | 04/15/2009 | N003 | 10 | - | 29.5 | -17.4 | | F | # | | |
| p-Isopropyltoluene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| pH | s.u. | 04/15/2009 | N003 | 10 | - | 29.5 | 5.45 | | F | # | | |
| Propane, 2-methoxy-2-methyl- | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.24 | U | F | # | 0.24 | |
| sec-Butylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Selenium | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.000046 | B | UF | # | 0.000018 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-4-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.00083 | U | F | # | 0.00083 | |
| Specific Conductance | umhos /cm | 04/15/2009 | N003 | 10 | - | 29.5 | 299 | | F | # | | |
| Styrene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Temperature | C | 04/15/2009 | N003 | 10 | - | 29.5 | 19.06 | | F | # | | |
| tert-Butylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Tetrachloroethene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Toluene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| trans-1,2-Dichloroethene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| trans-1,3-dichloropropene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Trichloroethene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Trichlorofluoromethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Tritium | pCi/L | 04/15/2009 | N003 | 10 | - | 29.5 | 0 | | UF | # | 157 | 95.5 |
| Turbidity | NTU | 04/15/2009 | N003 | 10 | - | 29.5 | 1.78 | | F | # | | |
| Vinyl Acetate | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.27 | U | F | # | 0.27 | |
| Vinyl chloride | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Zinc | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.001 | U | F | # | 0.001 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-5-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,1-Trichloroethane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloroethane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.2 | U | F | # | 0.2 | |
| 1,1-Dichloroethane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloroethene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloropropene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2,3-Trichlorobenzene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.2 | U | F | # | 0.2 | |
| 1,2,3-Trichloropropane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.49 | U | F | # | 0.49 | |
| 1,2,4-Trichlorobenzene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2,4-Trimethylbenzene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.64 | U | F | # | 0.64 | |
| 1,2-Dibromoethane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichlorobenzene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloroethane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloropropane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,3,5-Trimethylbenzene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-5-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,3-Dichloropropane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| 1,4-Dichlorobenzene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1-Chlorohexane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.28 | U | F | # | 0.28 | |
| 2,2-Dichloropropane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 2-Butanone | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 1.7 | U | F | # | 1.7 | |
| 2-Chlorotoluene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 2-Hexanone | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 3.3 | U | F | # | 3.3 | |
| 4-Chlorotoluene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 4-Methyl-2-Pentanone | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 1.7 | U | F | # | 1.7 | |
| Acetone | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 3.3 | U | F | # | 3.3 | |
| Antimony | mg/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.000031 | B | F | # | 0.000024 | |
| Arsenic | mg/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.00035 | | F | # | 0.00001 | |
| Barium | mg/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.024 | | F | # | 0.00018 | |
| Benzene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Beryllium | mg/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.00025 | B | F | # | 0.00015 | |
| Bromobenzene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromochloromethane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.21 | U | F | # | 0.21 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-5-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromoform | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromomethane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.25 | U | F | # | 0.25 | |
| Cadmium | mg/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.000075 | B | F | # | 0.000032 | |
| Carbon Disulfide | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Carbon tetrachloride | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chlorobenzene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chlorodibromomethane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chloroethane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.25 | U | F | # | 0.25 | |
| Chloroform | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chloromethane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chromium | mg/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.00055 | U | FJ | # | 0.00055 | |
| cis-1,2-Dichloroethene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 7.6 | | F | # | 0.17 | |
| cis-1,3-Dichloropropene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Dibromomethane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Dichlorodifluoromethane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Dissolved Oxygen | mg/L | 04/15/2009 | N003 | 13 | - | 29.5 | 2.14 | | F | # | | |
| Ethylbenzene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-5-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Iodomethane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Isopropylbenzene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Lead | mg/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.000038 | B | UF | # | 0.000032 | |
| m,p-Xylene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.19 | U | F | # | 0.19 | |
| Mercury | mg/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.0000078 | U | F | # | 0.0000078 | |
| Methylene chloride | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| n-Butylbenzene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| n-Propylbenzene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Naphthalene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Nickel | mg/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.0016 | B | F | # | 0.00095 | |
| o-Xylene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Oxidation Reduction Potential | mV | 04/15/2009 | N003 | 13 | - | 29.5 | 49.4 | | F | # | | |
| p-Isopropyltoluene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| pH | s.u. | 04/15/2009 | N003 | 13 | - | 29.5 | 6.09 | | F | # | | |
| Propane, 2-methoxy-2-methyl- | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.24 | U | F | # | 0.24 | |
| sec-Butylbenzene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Selenium | mg/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.000096 | B | UF | # | 0.000018 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-5-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | mg/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.00083 | U | F | # | 0.00083 | |
| Specific Conductance | umhos /cm | 04/15/2009 | N003 | 13 | - | 29.5 | 1747 | | F | # | | |
| Styrene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Temperature | C | 04/15/2009 | N003 | 13 | - | 29.5 | 19.1 | | F | # | | |
| tert-Butylbenzene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Tetrachloroethene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Toluene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| trans-1,2-Dichloroethene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 1.3 | | F | # | 0.17 | |
| trans-1,3-dichloropropene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Trichloroethene | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.21 | J | F | # | 0.17 | |
| Trichlorofluoromethane | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Tritium | pCi/L | 04/15/2009 | N003 | 13 | - | 29.5 | 127 | | UF | # | 157 | 98.3 |
| Turbidity | NTU | 04/15/2009 | N003 | 13 | - | 29.5 | 20.1 | | F | # | | |
| Vinyl Acetate | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.27 | U | F | # | 0.27 | |
| Vinyl chloride | ug/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Zinc | mg/L | 04/15/2009 | N001 | 13 | - | 29.5 | 0.01 | B | F | # | 0.001 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-6-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,1-Trichloroethane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloroethane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.2 | U | F | # | 0.2 | |
| 1,1-Dichloroethane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloroethene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloropropene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| 1,2,3-Trichlorobenzene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.2 | U | F | # | 0.2 | |
| 1,2,3-Trichloropropane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.49 | U | F | # | 0.49 | |
| 1,2,4-Trichlorobenzene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| 1,2,4-Trimethylbenzene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.64 | U | F | # | 0.64 | |
| 1,2-Dibromoethane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichlorobenzene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloroethane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloropropane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| 1,3,5-Trimethylbenzene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-6-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| 1,3-Dichloropropane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.18 | U | F | # | 0.18 | |
| 1,4-Dichlorobenzene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| 1-Chlorohexane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.28 | U | F | # | 0.28 | |
| 2,2-Dichloropropane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| 2-Butanone | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 1.7 | U | F | # | 1.7 | |
| 2-Chlorotoluene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| 2-Hexanone | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 3.3 | U | F | # | 3.3 | |
| 4-Chlorotoluene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| 4-Methyl-2-Pentanone | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 1.7 | U | F | # | 1.7 | |
| Acetone | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 3.3 | U | F | # | 3.3 | |
| Antimony | mg/L | 04/15/2009 | 0001 | 3 | - | 22.5 | 0.000024 | U | F | # | 0.000024 | |
| Arsenic | mg/L | 04/15/2009 | 0001 | 3 | - | 22.5 | 0.00026 | | F | # | 0.00001 | |
| Barium | mg/L | 04/15/2009 | 0001 | 3 | - | 22.5 | 0.024 | | F | # | 0.00018 | |
| Benzene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Beryllium | mg/L | 04/15/2009 | 0001 | 3 | - | 22.5 | 0.00015 | U | F | # | 0.00015 | |
| Bromobenzene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Bromochloromethane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.21 | U | F | # | 0.21 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-6-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Bromoform | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Bromomethane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.25 | U | F | # | 0.25 | |
| Cadmium | mg/L | 04/15/2009 | 0001 | 3 | - | 22.5 | 0.000043 | B | F | # | 0.000032 | |
| Carbon Disulfide | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Carbon tetrachloride | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Chlorobenzene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Chlorodibromomethane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Chloroethane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.25 | U | F | # | 0.25 | |
| Chloroform | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Chloromethane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Chromium | mg/L | 04/15/2009 | 0001 | 3 | - | 22.5 | 0.00055 | U | FJ | # | 0.00055 | |
| cis-1,2-Dichloroethene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| cis-1,3-Dichloropropene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Dibromomethane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.18 | U | F | # | 0.18 | |
| Dichlorodifluoromethane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Dissolved Oxygen | mg/L | 04/15/2009 | 0003 | 3 | - | 22.5 | 0.34 | | F | # | | |
| Ethylbenzene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-6-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.18 | U | F | # | 0.18 | |
| Iodomethane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Isopropylbenzene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Lead | mg/L | 04/15/2009 | 0001 | 3 | - | 22.5 | 0.000035 | B | UF | # | 0.000032 | |
| m,p-Xylene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.19 | U | F | # | 0.19 | |
| Mercury | mg/L | 04/15/2009 | 0001 | 3 | - | 22.5 | 0.0000078 | U | F | # | 0.0000078 | |
| Methylene chloride | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| n-Butylbenzene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| n-Propylbenzene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Naphthalene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Nickel | mg/L | 04/15/2009 | 0001 | 3 | - | 22.5 | 0.00095 | U | F | # | 0.00095 | |
| o-Xylene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Oxidation Reduction Potential | mV | 04/15/2009 | 0003 | 3 | - | 22.5 | 23.1 | | F | # | | |
| p-Isopropyltoluene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| pH | s.u. | 04/15/2009 | 0003 | 3 | - | 22.5 | 5.72 | | F | # | | |
| Propane, 2-methoxy-2-methyl- | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.24 | U | F | # | 0.24 | |
| sec-Butylbenzene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Selenium | mg/L | 04/15/2009 | 0001 | 3 | - | 22.5 | 0.000068 | B | UF | # | 0.000018 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-6-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | mg/L | 04/15/2009 | 0001 | 3 | - | 22.5 | 0.00083 | U | F | # | 0.00083 | |
| Specific Conductance | umhos /cm | 04/15/2009 | 0003 | 3 | - | 22.5 | 93 | | F | # | | |
| Styrene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Temperature | C | 04/15/2009 | 0003 | 3 | - | 22.5 | 18.87 | | F | # | | |
| tert-Butylbenzene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.18 | U | F | # | 0.18 | |
| Tetrachloroethene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Toluene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| trans-1,2-Dichloroethene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| trans-1,3-dichloropropene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Trichloroethene | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Trichlorofluoromethane | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Tritium | pCi/L | 04/15/2009 | 0003 | 3 | - | 22.5 | -29.2 | | UF | # | 157 | 94.8 |
| Turbidity | NTU | 04/15/2009 | 0003 | 3 | - | 22.5 | 654 | | F | # | | |
| Vinyl Acetate | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.27 | U | F | # | 0.27 | |
| Vinyl chloride | ug/L | 04/15/2009 | N001 | 3 | - | 22.5 | 0.17 | U | F | # | 0.17 | |
| Zinc | mg/L | 04/15/2009 | 0001 | 3 | - | 22.5 | 0.0014 | B | F | # | 0.001 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-7-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,1-Trichloroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.2 | U | F | # | 0.2 | |
| 1,1-Dichloroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloroethene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloropropene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2,3-Trichlorobenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.2 | U | F | # | 0.2 | |
| 1,2,3-Trichloropropane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.49 | U | F | # | 0.49 | |
| 1,2,4-Trichlorobenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2,4-Trimethylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.64 | U | F | # | 0.64 | |
| 1,2-Dibromoethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichlorobenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloropropane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,3,5-Trimethylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-7-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,3-Dichloropropane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| 1,4-Dichlorobenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1-Chlorohexane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.28 | U | F | # | 0.28 | |
| 2,2-Dichloropropane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 2-Butanone | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 1.7 | U | F | # | 1.7 | |
| 2-Chlorotoluene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 2-Hexanone | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 3.3 | U | F | # | 3.3 | |
| 4-Chlorotoluene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 4-Methyl-2-Pentanone | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 1.7 | U | F | # | 1.7 | |
| Acetone | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 3.3 | U | F | # | 3.3 | |
| Antimony | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.000024 | U | F | # | 0.000024 | |
| Arsenic | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.01 | | F | # | 0.00001 | |
| Barium | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.33 | | F | # | 0.00018 | |
| Benzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Beryllium | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.00028 | B | F | # | 0.00015 | |
| Bromobenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromochloromethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.21 | U | F | # | 0.21 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-7-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromoform | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromomethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.25 | U | F | # | 0.25 | |
| Cadmium | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.000058 | B | F | # | 0.000032 | |
| Carbon Disulfide | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Carbon tetrachloride | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chlorobenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chlorodibromomethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chloroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.25 | U | F | # | 0.25 | |
| Chloroform | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chloromethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chromium | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.00055 | U | FJ | # | 0.00055 | |
| cis-1,2-Dichloroethene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.8 | J | F | # | 0.17 | |
| cis-1,3-Dichloropropene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Dibromomethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Dichlorodifluoromethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Dissolved Oxygen | mg/L | 04/15/2009 | N003 | 10 | - | 29.5 | 1.7 | | F | # | | |
| Ethylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-7-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Iodomethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Isopropylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Lead | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.000074 | B | UF | # | 0.000032 | |
| m,p-Xylene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.19 | U | F | # | 0.19 | |
| Mercury | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.0000078 | U | F | # | 0.0000078 | |
| Methylene chloride | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| n-Butylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| n-Propylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Naphthalene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Nickel | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.0018 | B | F | # | 0.00095 | |
| o-Xylene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Oxidation Reduction Potential | mV | 04/15/2009 | N003 | 10 | - | 29.5 | -46.8 | | F | # | | |
| p-Isopropyltoluene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| pH | s.u. | 04/15/2009 | N003 | 10 | - | 29.5 | 5.88 | | F | # | | |
| Propane, 2-methoxy-2-methyl- | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.24 | U | F | # | 0.24 | |
| sec-Butylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Selenium | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.00019 | | UF | # | 0.000018 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-7-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.00083 | U | F | # | 0.00083 | |
| Specific Conductance | umhos /cm | 04/15/2009 | N003 | 10 | - | 29.5 | 998 | | F | # | | |
| Styrene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Temperature | C | 04/15/2009 | N003 | 10 | - | 29.5 | 19 | | F | # | | |
| tert-Butylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Tetrachloroethene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Toluene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| trans-1,2-Dichloroethene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| trans-1,3-dichloropropene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Trichloroethene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Trichlorofluoromethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Tritium | pCi/L | 04/15/2009 | N003 | 10 | - | 29.5 | 6.49 | | UF | # | 157 | 95.6 |
| Turbidity | NTU | 04/15/2009 | N003 | 10 | - | 29.5 | 10.3 | | F | # | | |
| Vinyl Acetate | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.27 | U | F | # | 0.27 | |
| Vinyl chloride | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Zinc | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.0032 | B | F | # | 0.001 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA1-8-L WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/L | 04/15/2009 | N001 | 145 | - | 185 | 0.000024 | U | F | # | 0.000024 | |
| Arsenic | mg/L | 04/15/2009 | N001 | 145 | - | 185 | 0.0068 | | F | # | 0.00001 | |
| Barium | mg/L | 04/15/2009 | N001 | 145 | - | 185 | 0.24 | | F | # | 0.00018 | |
| Beryllium | mg/L | 04/15/2009 | N001 | 145 | - | 185 | 0.00015 | U | F | # | 0.00015 | |
| Cadmium | mg/L | 04/15/2009 | N001 | 145 | - | 185 | 0.00004 | B | F | # | 0.000032 | |
| Cesium-137 | pCi/L | 04/15/2009 | N003 | 145 | - | 185 | 0 | U | F | # | 4.95 | 0 |
| Chromium | mg/L | 04/15/2009 | N001 | 145 | - | 185 | 0.00055 | U | F | # | 0.00055 | |
| Lead | mg/L | 04/15/2009 | N001 | 145 | - | 185 | 0.000058 | B | UF | # | 0.000032 | |
| Mercury | mg/L | 04/15/2009 | N001 | 145 | - | 185 | 0.0000078 | U | F | # | 0.0000078 | |
| Nickel | mg/L | 04/15/2009 | N001 | 145 | - | 185 | 0.00095 | U | F | # | 0.00095 | |
| Oxidation Reduction Potential | mV | 04/15/2009 | N003 | 145 | - | 185 | -50.7 | | F | # | | |
| pH | s.u. | 04/15/2009 | N003 | 145 | - | 185 | 6.62 | | F | # | | |
| Selenium | mg/L | 04/15/2009 | N001 | 145 | - | 185 | 0.000045 | B | UF | # | 0.000018 | |
| Silver | mg/L | 04/15/2009 | N001 | 145 | - | 185 | 0.00083 | U | F | # | 0.00083 | |
| Specific Conductance | umhos /cm | 04/15/2009 | N003 | 145 | - | 185 | 261 | | F | # | | |
| Temperature | C | 04/15/2009 | N003 | 145 | - | 185 | 18.52 | | F | # | | |
| Tritium | pCi/L | 04/15/2009 | N003 | 145 | - | 185 | 29.2 | | UF | # | 157 | 96.2 |
| Turbidity | NTU | 04/15/2009 | N003 | 145 | - | 185 | 11.2 | | F | # | | |
| Zinc | mg/L | 04/15/2009 | N001 | 145 | - | 185 | 0.027 | | F | # | 0.001 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA2-1-L WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/L | 04/16/2009 | N001 | 278.1 | - | 338.1 | 0.00011 | B | F | # | 0.000024 | |
| Arsenic | mg/L | 04/16/2009 | N001 | 278.1 | - | 338.1 | 0.0092 | | F | # | 0.00001 | |
| Barium | mg/L | 04/16/2009 | N001 | 278.1 | - | 338.1 | 0.063 | | F | # | 0.00018 | |
| Beryllium | mg/L | 04/16/2009 | N001 | 278.1 | - | 338.1 | 0.00015 | U | F | # | 0.00015 | |
| Cadmium | mg/L | 04/16/2009 | N001 | 278.1 | - | 338.1 | 0.000032 | U | F | # | 0.000032 | |
| Chromium | mg/L | 04/16/2009 | N001 | 278.1 | - | 338.1 | 0.00055 | U | FJ | # | 0.00055 | |
| Lead | mg/L | 04/16/2009 | N001 | 278.1 | - | 338.1 | 0.00035 | B | UF | # | 0.000032 | |
| Mercury | mg/L | 04/16/2009 | N001 | 278.1 | - | 338.1 | 0.0000078 | U | F | # | 0.0000078 | |
| Nickel | mg/L | 04/16/2009 | N001 | 278.1 | - | 338.1 | 0.00095 | U | F | # | 0.00095 | |
| Oxidation Reduction Potential | mV | 04/16/2009 | N003 | 278.1 | - | 338.1 | -4.1 | | F | # | | |
| pH | s.u. | 04/16/2009 | N003 | 278.1 | - | 338.1 | 8.9 | | F | # | | |
| Selenium | mg/L | 04/16/2009 | N001 | 278.1 | - | 338.1 | 0.00012 | | UF | # | 0.000018 | |
| Silver | mg/L | 04/16/2009 | N001 | 278.1 | - | 338.1 | 0.00083 | U | F | # | 0.00083 | |
| Specific Conductance | umhos /cm | 04/16/2009 | N003 | 278.1 | - | 338.1 | 324 | | F | # | | |
| Temperature | C | 04/16/2009 | N003 | 278.1 | - | 338.1 | 18.45 | | F | # | | |
| Tritium | pCi/L | 04/16/2009 | N003 | 278.1 | - | 338.1 | -6.49 | | UF | # | 157 | 95.4 |
| Turbidity | NTU | 04/16/2009 | N003 | 278.1 | - | 338.1 | 1.7 | | F | # | | |
| Zinc | mg/L | 04/16/2009 | N001 | 278.1 | - | 338.1 | 0.0077 | B | F | # | 0.001 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA2-2-L WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/L | 04/16/2009 | N001 | 275 | - | 335 | 0.0013 | | FQ | # | 0.000024 | |
| Arsenic | mg/L | 04/16/2009 | N001 | 275 | - | 335 | 0.00045 | | FQ | # | 0.00001 | |
| Barium | mg/L | 04/16/2009 | N001 | 275 | - | 335 | 0.81 | | FQ | # | 0.00018 | |
| Beryllium | mg/L | 04/16/2009 | N001 | 275 | - | 335 | 0.00023 | B | FQ | # | 0.00015 | |
| Cadmium | mg/L | 04/16/2009 | N001 | 275 | - | 335 | 0.000032 | U | FQ | # | 0.000032 | |
| Cesium-137 | pCi/L | 04/16/2009 | N003 | 275 | - | 335 | 0 | U | FQ | # | 4.83 | 0 |
| Chromium | mg/L | 04/16/2009 | N001 | 275 | - | 335 | 0.013 | | FQ | # | 0.00055 | |
| Lead | mg/L | 04/16/2009 | N001 | 275 | - | 335 | 0.011 | | FQ | # | 0.000032 | |
| Mercury | mg/L | 04/16/2009 | N001 | 275 | - | 335 | 0.0000078 | U | FQ | # | 0.0000078 | |
| Nickel | mg/L | 04/16/2009 | N001 | 275 | - | 335 | 0.00095 | U | FQ | # | 0.00095 | |
| Oxidation Reduction Potential | mV | 04/16/2009 | N003 | 275 | - | 335 | -111.5 | | FQ | # | | |
| pH | s.u. | 04/16/2009 | N003 | 275 | - | 335 | 12.33 | | FQ | # | | |
| Selenium | mg/L | 04/16/2009 | N001 | 275 | - | 335 | 0.00013 | | UFQ | # | 0.000018 | |
| Silver | mg/L | 04/16/2009 | N001 | 275 | - | 335 | 0.00083 | U | FQ | # | 0.00083 | |
| Specific Conductance | umhos /cm | 04/16/2009 | N003 | 275 | - | 335 | 6277 | | FQ | # | | |
| Temperature | C | 04/16/2009 | N003 | 275 | - | 335 | 18.12 | | FQ | # | | |
| Tritium | pCi/L | 04/16/2009 | N003 | 275 | - | 335 | 48.7 | | UFQ | # | 157 | 96.6 |
| Turbidity | NTU | 04/16/2009 | N003 | 275 | - | 335 | 1.88 | | FQ | # | | |
| Zinc | mg/L | 04/16/2009 | N001 | 275 | - | 335 | 0.012 | B | FQ | # | 0.001 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA2-4-L WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/L | 04/16/2009 | N001 | 200 | - | 240 | 0.000086 | B | F | # | 0.000024 | |
| Arsenic | mg/L | 04/16/2009 | N001 | 200 | - | 240 | 0.0097 | | F | # | 0.00001 | |
| Barium | mg/L | 04/16/2009 | N001 | 200 | - | 240 | 0.12 | | F | # | 0.00018 | |
| Beryllium | mg/L | 04/16/2009 | N001 | 200 | - | 240 | 0.00015 | U | F | # | 0.00015 | |
| Cadmium | mg/L | 04/16/2009 | N001 | 200 | - | 240 | 0.000038 | B | F | # | 0.000032 | |
| Cesium-137 | pCi/L | 04/16/2009 | N003 | 200 | - | 240 | 0 | U | F | # | 4.71 | 0 |
| Chromium | mg/L | 04/16/2009 | N001 | 200 | - | 240 | 0.00055 | U | F | # | 0.00055 | |
| Lead | mg/L | 04/16/2009 | N001 | 200 | - | 240 | 0.00063 | | F | # | 0.000032 | |
| Mercury | mg/L | 04/16/2009 | N001 | 200 | - | 240 | 0.0000078 | U | F | # | 0.0000078 | |
| Nickel | mg/L | 04/16/2009 | N001 | 200 | - | 240 | 0.00095 | U | F | # | 0.00095 | |
| Oxidation Reduction Potential | mV | 04/16/2009 | N003 | 200 | - | 240 | 32.8 | | F | # | | |
| pH | s.u. | 04/16/2009 | N003 | 200 | - | 240 | 8.25 | | F | # | | |
| Selenium | mg/L | 04/16/2009 | N001 | 200 | - | 240 | 0.000046 | B | UF | # | 0.000018 | |
| Silver | mg/L | 04/16/2009 | N001 | 200 | - | 240 | 0.00083 | U | F | # | 0.00083 | |
| Specific Conductance | umhos /cm | 04/16/2009 | N003 | 200 | - | 240 | 296 | | F | # | | |
| Temperature | C | 04/16/2009 | N003 | 200 | - | 240 | 18.18 | | F | # | | |
| Tritium | pCi/L | 04/16/2009 | N003 | 200 | - | 240 | 29.2 | | UF | # | 157 | 96.2 |
| Turbidity | NTU | 04/16/2009 | N003 | 200 | - | 240 | 7.96 | | F | # | | |
| Zinc | mg/L | 04/16/2009 | N001 | 200 | - | 240 | 0.01 | B | F | # | 0.001 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA3-11-3 WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Enriched Tritium | pCi/L | 04/15/2009 | N003 | 736 | - | 839.5 | -1.42 | | UF | # | 3.6 | 2.15 |
| Oxidation Reduction Potential | mV | 04/15/2009 | N003 | 736 | - | 839.5 | -270.5 | | F | # | | |
| pH | s.u. | 04/15/2009 | N003 | 736 | - | 839.5 | 7.43 | | F | # | | |
| Specific Conductance | umhos /cm | 04/15/2009 | N003 | 736 | - | 839.5 | 4698 | | F | # | | |
| Temperature | C | 04/15/2009 | N003 | 736 | - | 839.5 | 18.72 | | F | # | | |
| Tritium | pCi/L | 04/15/2009 | N003 | 736 | - | 839.5 | 6.49 | | UF | # | 157 | 95.6 |
| Turbidity | NTU | 04/15/2009 | N003 | 736 | - | 839.5 | 4.4 | | F | # | | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA3-4-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,1-Trichloroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1,2-Trichloroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.2 | U | F | # | 0.2 | |
| 1,1-Dichloroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloroethene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,1-Dichloropropene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2,3-Trichlorobenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.2 | U | F | # | 0.2 | |
| 1,2,3-Trichloropropane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.49 | U | F | # | 0.49 | |
| 1,2,4-Trichlorobenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2,4-Trimethylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.64 | U | F | # | 0.64 | |
| 1,2-Dibromoethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichlorobenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,2-Dichloropropane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,3,5-Trimethylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA3-4-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1,3-Dichloropropane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| 1,4-Dichlorobenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 1-Chlorohexane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.28 | U | F | # | 0.28 | |
| 2,2-Dichloropropane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 2-Butanone | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 1.7 | U | F | # | 1.7 | |
| 2-Chlorotoluene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 2-Hexanone | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 3.3 | U | F | # | 3.3 | |
| 4-Chlorotoluene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| 4-Methyl-2-Pentanone | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 1.7 | U | F | # | 1.7 | |
| Acetone | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 3.3 | U | F | # | 3.3 | |
| Antimony | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.000024 | U | F | # | 0.000024 | |
| Arsenic | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.000081 | B | UF | # | 0.00001 | |
| Barium | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.36 | | F | # | 0.00018 | |
| Benzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Beryllium | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.00026 | B | F | # | 0.00015 | |
| Bromobenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromochloromethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.21 | U | F | # | 0.21 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA3-4-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromoform | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Bromomethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.25 | U | F | # | 0.25 | |
| Cadmium | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.00005 | B | F | # | 0.000032 | |
| Carbon Disulfide | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Carbon tetrachloride | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chlorobenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chlorodibromomethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chloroethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.25 | U | F | # | 0.25 | |
| Chloroform | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Chloromethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.26 | J | F | # | 0.17 | |
| Chromium | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.00055 | U | F | # | 0.00055 | |
| cis-1,2-Dichloroethene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| cis-1,3-Dichloropropene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Dibromomethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Dichlorodifluoromethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Dissolved Oxygen | mg/L | 04/15/2009 | N003 | 10 | - | 29.5 | 1.52 | | F | # | | |
| Ethylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA3-4-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Iodomethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Isopropylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Lead | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.00036 | B | F | # | 0.000032 | |
| m,p-Xylene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.19 | U | F | # | 0.19 | |
| Mercury | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.0000078 | U | F | # | 0.0000078 | |
| Methylene chloride | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| n-Butylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| n-Propylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Naphthalene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Nickel | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.0013 | B | F | # | 0.00095 | |
| o-Xylene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Oxidation Reduction Potential | mV | 04/15/2009 | N003 | 10 | - | 29.5 | 143.9 | | F | # | | |
| p-Isopropyltoluene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| pH | s.u. | 04/15/2009 | N003 | 10 | - | 29.5 | 6.02 | | F | # | | |
| Propane, 2-methoxy-2-methyl- | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.24 | U | F | # | 0.24 | |
| sec-Butylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Selenium | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.000062 | B | UF | # | 0.000018 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA3-4-H WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.00083 | U | F | # | 0.00083 | |
| Specific Conductance | umhos /cm | 04/15/2009 | N003 | 10 | - | 29.5 | 373 | | F | # | | |
| Styrene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Temperature | C | 04/15/2009 | N003 | 10 | - | 29.5 | 19.41 | | F | # | | |
| tert-Butylbenzene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.18 | U | F | # | 0.18 | |
| Tetrachloroethene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Toluene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| trans-1,2-Dichloroethene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| trans-1,3-dichloropropene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Trichloroethene | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Trichlorofluoromethane | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Tritium | pCi/L | 04/15/2009 | N003 | 10 | - | 29.5 | -9.73 | | UF | # | 157 | 95.3 |
| Turbidity | NTU | 04/15/2009 | N003 | 10 | - | 29.5 | 0.97 | | F | # | | |
| Vinyl Acetate | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.27 | U | F | # | 0.27 | |
| Vinyl chloride | ug/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.17 | U | F | # | 0.17 | |
| Zinc | mg/L | 04/15/2009 | N001 | 10 | - | 29.5 | 0.0027 | B | F | # | 0.001 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA4-5-L WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | | | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/L | 04/16/2009 | N001 | 160 | - | 170 | 0.00055 | | FQ | # | 0.000024 | |
| Arsenic | mg/L | 04/16/2009 | N001 | 160 | - | 170 | 0.000081 | B | UFQ | # | 0.00001 | |
| Barium | mg/L | 04/16/2009 | N001 | 160 | - | 170 | 2.7 | | FQ | # | 0.00018 | |
| Beryllium | mg/L | 04/16/2009 | N001 | 160 | - | 170 | 0.00024 | B | FQ | # | 0.00015 | |
| Cadmium | mg/L | 04/16/2009 | N001 | 160 | - | 170 | 0.00012 | B | FQ | # | 0.000032 | |
| Cesium-137 | pCi/L | 04/16/2009 | N003 | 160 | - | 170 | 0 | U | FQ | # | 4.94 | 0 |
| Chromium | mg/L | 04/16/2009 | N001 | 160 | - | 170 | 0.042 | | FQ | # | 0.00055 | |
| Dissolved Oxygen | mg/L | 04/16/2009 | N003 | 160 | - | 170 | 9.57 | | FQ | # | | |
| Lead | mg/L | 04/16/2009 | N001 | 160 | - | 170 | 0.0059 | | FQ | # | 0.000032 | |
| Mercury | mg/L | 04/16/2009 | N001 | 160 | - | 170 | 0.0000078 | U | FQ | # | 0.0000078 | |
| Nickel | mg/L | 04/16/2009 | N001 | 160 | - | 170 | 0.00095 | U | FQ | # | 0.00095 | |
| Oxidation Reduction Potential | mV | 04/16/2009 | N003 | 160 | - | 170 | -119.9 | | FQ | # | | |
| pH | s.u. | 04/16/2009 | N003 | 160 | - | 170 | 12.1 | | FQ | # | | |
| Selenium | mg/L | 04/16/2009 | N001 | 160 | - | 170 | 0.00015 | | UFQ | # | 0.000018 | |
| Silver | mg/L | 04/16/2009 | N001 | 160 | - | 170 | 0.00083 | U | FQ | # | 0.00083 | |
| Specific Conductance | umhos/cm | 04/16/2009 | N003 | 160 | - | 170 | 5837 | | FQ | # | | |
| Temperature | C | 04/16/2009 | N003 | 160 | - | 170 | 20.27 | | FQ | # | | |
| Tritium | pCi/L | 04/16/2009 | N003 | 160 | - | 170 | 0 | | UFQ | # | 157 | 95.5 |
| Turbidity | NTU | 04/16/2009 | N003 | 160 | - | 170 | 0.46 | | FQ | # | | |
| Zinc | mg/L | 04/16/2009 | N001 | 160 | - | 170 | 0.2 | | FQ | # | 0.001 | |

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: SA5-5-4 WELL

| Parameter | Units | Sample Date | Sample ID | Depth Range (Ft BLS) | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|
| Cesium-137 | pCi/L | 04/16/2009 | N003 | 1799.5 - 2040.1 | 0 | U | | # | 4.89 | 0 |
| Oxidation Reduction Potential | mV | 04/16/2009 | N003 | 1799.5 - 2040.1 | -245.8 | | | # | | |
| pH | s.u. | 04/16/2009 | N003 | 1799.5 - 2040.1 | 8.6 | | | # | | |
| Specific Conductance | umhos /cm | 04/16/2009 | N003 | 1799.5 - 2040.1 | 3573 | | | # | | |
| Temperature | C | 04/16/2009 | N003 | 1799.5 - 2040.1 | 24.31 | | | # | | |
| Tritium | pCi/L | 04/16/2009 | N003 | 1799.5 - 2040.1 | -29.2 | | U | # | 157 | 94.8 |
| Turbidity | NTU | 04/16/2009 | N003 | 1799.5 - 2040.1 | 1.55 | | | # | | |

SAMPLE ID CODES: 000X = Filtered sample (0.45 µm). N00X = Unfiltered sample. X = replicate number.

LAB QUALIFIERS:
- * Replicate analysis not within control limits.
- > Result above upper detection limit.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- C Pesticide result confirmed by GC-MS.
- D Analyte determined in diluted sample.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- J Estimated
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- P > 25% difference in detected pesticide or Aroclor concentrations between 2 columns.
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- X,Y,Z Laboratory defined qualifier, see case narrative.

DATA QUALIFIERS:
- F Low flow sampling method used.
- G Possible grout contamination, pH > 9.
- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- Q Qualitative result due to sampling technique.
- R Unusable result.
- U Parameter analyzed for but was not detected.
- X Location is undefined.

QA QUALIFIER:
- # Validated according to quality assurance guidelines.

# Surface Water Quality Data

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**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: Grantham Ck Entry SURFACE LOCATION

| Parameter | Units | Sample Date | Sample ID | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/L | 04/15/2009 | N001 | 0.000028 | B | | # | 0.000024 | |
| Arsenic | mg/L | 04/15/2009 | N001 | 0.00019 | | U | # | 0.00001 | |
| Barium | mg/L | 04/15/2009 | N001 | 0.034 | | | # | 0.00018 | |
| Beryllium | mg/L | 04/15/2009 | N001 | 0.00021 | B | U | # | 0.00015 | |
| Cadmium | mg/L | 04/15/2009 | N001 | 0.00014 | B | | # | 0.000032 | |
| Cesium-137 | pCi/L | 04/15/2009 | N003 | 0 | U | | # | 4.95 | 0 |
| Chromium | mg/L | 04/15/2009 | N001 | 0.0015 | B | U | # | 0.00055 | |
| Lead | mg/L | 04/15/2009 | N001 | 0.00018 | B | U | # | 0.000032 | |
| Mercury | mg/L | 04/15/2009 | N001 | 0.0000078 | U | | # | 0.0000078 | |
| Nickel | mg/L | 04/15/2009 | N001 | 0.0012 | B | | # | 0.00095 | |
| Oxidation Reduction Potential | mV | 04/15/2009 | N003 | 29 | | | # | | |
| pH | s.u. | 04/15/2009 | N003 | 6.3 | | | # | | |
| Selenium | mg/L | 04/15/2009 | N001 | 0.00006 | BN | U | # | 0.000018 | |
| Silver | mg/L | 04/15/2009 | N001 | 0.00083 | U | | # | 0.00083 | |
| Specific Conductance | umhos/cm | 04/15/2009 | N003 | 53 | | | # | | |
| Temperature | C | 04/15/2009 | N003 | 17.89 | | | # | | |
| Tritium | pCi/L | 04/15/2009 | N003 | -22.8 | | U | # | 158 | 95.3 |
| Zinc | mg/L | 04/15/2009 | N001 | 0.0045 | B | U | # | 0.001 | |

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HALFMOON CREEK SURFACE LOCATION

| Parameter | Units | Sample Date | Sample ID | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/L | 04/15/2009 | N001 | 0.000034 | B | | # | 0.000024 | |
| Arsenic | mg/L | 04/15/2009 | N001 | 0.00012 | | U | # | 0.00001 | |
| Barium | mg/L | 04/15/2009 | N001 | 0.032 | | | # | 0.00018 | |
| Beryllium | mg/L | 04/15/2009 | N001 | 0.00015 | U | | # | 0.00015 | |
| Cadmium | mg/L | 04/15/2009 | N001 | 0.000049 | B | U | # | 0.000032 | |
| Cesium-137 | pCi/L | 04/15/2009 | N003 | 0 | U | | # | 4.78 | 0 |
| Chromium | mg/L | 04/15/2009 | N001 | 0.0012 | B | | # | 0.00055 | |
| Lead | mg/L | 04/15/2009 | N001 | 0.00023 | B | U | # | 0.000032 | |
| Mercury | mg/L | 04/15/2009 | N001 | 0.0000078 | U | | # | 0.0000078 | |
| Nickel | mg/L | 04/15/2009 | N001 | 0.0012 | B | | # | 0.00095 | |
| Oxidation Reduction Potential | mV | 04/15/2009 | N003 | 189.1 | | | # | | |
| pH | s.u. | 04/15/2009 | N003 | 4.72 | | | # | | |
| Selenium | mg/L | 04/15/2009 | N001 | 0.000066 | B | U | # | 0.000018 | |
| Silver | mg/L | 04/15/2009 | N001 | 0.00083 | U | | # | 0.00083 | |
| Specific Conductance | umhos/cm | 04/15/2009 | N003 | 61 | | | # | | |
| Temperature | C | 04/15/2009 | N003 | 15.51 | | | # | | |
| Tritium | pCi/L | 04/15/2009 | N003 | -32.6 | | U | # | 158 | 95.1 |
| Zinc | mg/L | 04/15/2009 | N001 | 0.0067 | B | | # | 0.001 | |

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HALFMOONCRKOVERFLOW SURFACE LOCATION

| Parameter | Units | Sample Date | Sample ID | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/L | 04/15/2009 | N001 | 0.000024 | U | | # | 0.000024 | |
| Arsenic | mg/L | 04/15/2009 | N001 | 0.00072 | | | # | 0.00001 | |
| Barium | mg/L | 04/15/2009 | N001 | 0.051 | | | # | 0.00018 | |
| Beryllium | mg/L | 04/15/2009 | N001 | 0.00015 | U | | # | 0.00015 | |
| Cadmium | mg/L | 04/15/2009 | N001 | 0.000068 | B | U | # | 0.000032 | |
| Cesium-137 | pCi/L | 04/15/2009 | N003 | 0 | U | | # | 4.99 | 0 |
| Chromium | mg/L | 04/15/2009 | N001 | 0.003 | | | # | 0.00055 | |
| Lead | mg/L | 04/15/2009 | N001 | 0.00087 | | U | # | 0.000032 | |
| Mercury | mg/L | 04/15/2009 | N001 | 0.0000078 | U | | # | 0.0000078 | |
| Nickel | mg/L | 04/15/2009 | N001 | 0.0015 | B | | # | 0.00095 | |
| Oxidation Reduction Potential | mV | 04/15/2009 | N003 | 220.6 | | | # | | |
| pH | s.u. | 04/15/2009 | N003 | 4.52 | | | # | | |
| Selenium | mg/L | 04/15/2009 | N001 | 0.000094 | B | U | # | 0.000018 | |
| Silver | mg/L | 04/15/2009 | N001 | 0.00083 | U | | # | 0.00083 | |
| Specific Conductance | umhos/cm | 04/15/2009 | N003 | 108 | | | # | | |
| Temperature | C | 04/15/2009 | N003 | 16.08 | | | # | | |
| Tritium | pCi/L | 04/15/2009 | N003 | 42.3 | | U | # | 158 | 96.8 |
| Zinc | mg/L | 04/15/2009 | N001 | 0.0074 | B | | # | 0.001 | |

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: Half Moon Ck Entry SURFACE LOCATION Half Moon Creek Entry

| Parameter | Units | Sample Date | Sample ID | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/L | 04/16/2009 | N001 | 0.000026 | B | | # | 0.000024 | |
| Arsenic | mg/L | 04/16/2009 | N001 | 0.00012 | | U | # | 0.00001 | |
| Barium | mg/L | 04/16/2009 | N001 | 0.04 | | | # | 0.00018 | |
| Beryllium | mg/L | 04/16/2009 | N001 | 0.00018 | B | U | # | 0.00015 | |
| Cadmium | mg/L | 04/16/2009 | N001 | 0.000032 | B | | # | 0.000032 | |
| Cesium-137 | pCi/L | 04/16/2009 | N003 | 0 | U | | # | 4.85 | 0 |
| Chromium | mg/L | 04/16/2009 | N001 | 0.0022 | | | # | 0.00055 | |
| Lead | mg/L | 04/16/2009 | N001 | 0.0003 | B | U | # | 0.000032 | |
| Mercury | mg/L | 04/16/2009 | N001 | 0.0000078 | U | | # | 0.0000078 | |
| Nickel | mg/L | 04/16/2009 | N001 | 0.0013 | B | | # | 0.00095 | |
| Oxidation Reduction Potential | mV | 04/16/2009 | N003 | 129 | | | # | | |
| pH | s.u. | 04/16/2009 | N003 | 6.92 | | | # | | |
| Selenium | mg/L | 04/16/2009 | N001 | 0.000074 | B | U | # | 0.000018 | |
| Silver | mg/L | 04/16/2009 | N001 | 0.00083 | U | | # | 0.00083 | |
| Specific Conductance | umhos/cm | 04/16/2009 | N003 | 40 | | | # | | |
| Temperature | C | 04/16/2009 | N003 | 15.32 | | | # | | |
| Tritium | pCi/L | 04/16/2009 | N003 | 38.9 | | U | # | 157 | 96.4 |
| Zinc | mg/L | 04/16/2009 | N001 | 0.01 | B | | # | 0.001 | |

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: Half Moon Ck Exit SURFACE LOCATION

| Parameter | Units | Sample Date | Sample ID | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/L | 04/15/2009 | N001 | 0.000032 | B | | # | 0.000024 | |
| Arsenic | mg/L | 04/15/2009 | N001 | 0.00013 | | U | # | 0.00001 | |
| Barium | mg/L | 04/15/2009 | N001 | 0.032 | | | # | 0.00018 | |
| Beryllium | mg/L | 04/15/2009 | N001 | 0.00015 | U | | # | 0.00015 | |
| Cadmium | mg/L | 04/15/2009 | N001 | 0.000032 | B | | # | 0.000032 | |
| Cesium-137 | pCi/L | 04/15/2009 | N003 | 0 | U | | # | 4.68 | 0 |
| Chromium | mg/L | 04/15/2009 | N001 | 0.00099 | B | U | # | 0.00055 | |
| Lead | mg/L | 04/15/2009 | N001 | 0.00025 | B | U | # | 0.000032 | |
| Mercury | mg/L | 04/15/2009 | N001 | 0.0000078 | U | | # | 0.0000078 | |
| Nickel | mg/L | 04/15/2009 | N001 | 0.0012 | B | | # | 0.00095 | |
| Oxidation Reduction Potential | mV | 04/15/2009 | N003 | 173.3 | | | # | | |
| pH | s.u. | 04/15/2009 | N003 | 4.89 | | | # | | |
| Selenium | mg/L | 04/15/2009 | N001 | 0.000055 | B | U | # | 0.000018 | |
| Silver | mg/L | 04/15/2009 | N001 | 0.00083 | U | | # | 0.00083 | |
| Specific Conductance | umhos/cm | 04/15/2009 | N003 | 57 | | | # | | |
| Temperature | C | 04/15/2009 | N003 | 15.55 | | | # | | |
| Tritium | pCi/L | 04/15/2009 | N003 | 9.77 | | U | # | 158 | 96.1 |
| Zinc | mg/L | 04/15/2009 | N001 | 0.004 | B | U | # | 0.001 | |

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: Hick Hollow Ck Entry SURFACE LOCATION Hickory Hollow Creek Entry

| Parameter | Units | Sample Date | Sample ID | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/L | 04/16/2009 | N001 | 0.000024 | U | | # | 0.000024 | |
| Arsenic | mg/L | 04/16/2009 | N001 | 0.000087 | B | U | # | 0.00001 | |
| Barium | mg/L | 04/16/2009 | N001 | 0.039 | | | # | 0.00018 | |
| Beryllium | mg/L | 04/16/2009 | N001 | 0.00015 | U | | # | 0.00015 | |
| Cadmium | mg/L | 04/16/2009 | N001 | 0.00011 | B | U | # | 0.000032 | |
| Cesium-137 | pCi/L | 04/16/2009 | N003 | 0 | U | | # | 4.94 | 0 |
| Chromium | mg/L | 04/16/2009 | N001 | 0.00089 | B | | # | 0.00055 | |
| Lead | mg/L | 04/16/2009 | N001 | 0.0018 | | | # | 0.000032 | |
| Mercury | mg/L | 04/16/2009 | N001 | 0.0000078 | U | | # | 0.0000078 | |
| Nickel | mg/L | 04/16/2009 | N001 | 0.001 | B | | # | 0.00095 | |
| Oxidation Reduction Potential | mV | 04/16/2009 | N003 | 97.7 | | | # | | |
| pH | s.u. | 04/16/2009 | N003 | 5.12 | | | # | | |
| Selenium | mg/L | 04/16/2009 | N001 | 0.000067 | B | U | # | 0.000018 | |
| Silver | mg/L | 04/16/2009 | N001 | 0.00083 | U | | # | 0.00083 | |
| Specific Conductance | umhos/cm | 04/16/2009 | N003 | 42 | | | # | | |
| Temperature | C | 04/16/2009 | N003 | 17.2 | | | # | | |
| Tritium | pCi/L | 04/16/2009 | N003 | 35.7 | | U | # | 157 | 96.3 |
| Zinc | mg/L | 04/16/2009 | N001 | 0.0042 | B | U | # | 0.001 | |

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: HickHCrTSD-East SURFACE LOCATION Replaced proposed Hick Hollow Ck Entry sample location due to problems with access.

| Parameter | Units | Sample Date | Sample ID | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/L | 04/15/2009 | N001 | 0.000024 | U | | # | 0.000024 | |
| Arsenic | mg/L | 04/15/2009 | N001 | 0.00008 | B | U | # | 0.00001 | |
| Barium | mg/L | 04/15/2009 | N001 | 0.031 | | | # | 0.00018 | |
| Beryllium | mg/L | 04/15/2009 | N001 | 0.00015 | U | | # | 0.00015 | |
| Cadmium | mg/L | 04/15/2009 | N001 | 0.00004 | B | U | # | 0.000032 | |
| Cesium-137 | pCi/L | 04/15/2009 | N003 | 0 | U | | # | 4.39 | 0 |
| Chromium | mg/L | 04/15/2009 | N001 | 0.00055 | U | | # | 0.00055 | |
| Lead | mg/L | 04/15/2009 | N001 | 0.000097 | B | U | # | 0.000032 | |
| Mercury | mg/L | 04/15/2009 | N001 | 0.0000078 | U | | # | 0.0000078 | |
| Nickel | mg/L | 04/15/2009 | N001 | 0.00095 | U | | # | 0.00095 | |
| Oxidation Reduction Potential | mV | 04/15/2009 | N003 | 50.4 | | | # | | |
| pH | s.u. | 04/15/2009 | N003 | 5.34 | | | # | | |
| Selenium | mg/L | 04/15/2009 | N001 | 0.000054 | B | U | # | 0.000018 | |
| Silver | mg/L | 04/15/2009 | N001 | 0.00083 | U | | # | 0.00083 | |
| Specific Conductance | umhos/cm | 04/15/2009 | N003 | 51 | | | # | | |
| Temperature | C | 04/15/2009 | N003 | 17.13 | | | # | | |
| Tritium | pCi/L | 04/15/2009 | N003 | 22.8 | | U | # | 158 | 96.3 |
| Zinc | mg/L | 04/15/2009 | N001 | 0.0054 | B | U | # | 0.001 | |

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: Pond West of GZ SURFACE LOCATION

| Parameter | Units | Sample Date | Sample ID | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/L | 04/15/2009 | N001 | 0.000042 | B | | # | 0.000024 | |
| Arsenic | mg/L | 04/15/2009 | N001 | 0.00071 | | | # | 0.00001 | |
| Barium | mg/L | 04/15/2009 | N001 | 0.062 | | | # | 0.00018 | |
| Beryllium | mg/L | 04/15/2009 | N001 | 0.00018 | B | U | # | 0.00015 | |
| Cadmium | mg/L | 04/15/2009 | N001 | 0.000055 | B | U | # | 0.000032 | |
| Cesium-137 | pCi/L | 04/15/2009 | N003 | 0 | U | | # | 5 | 0 |
| Chromium | mg/L | 04/15/2009 | N001 | 0.0058 | | | # | 0.00055 | |
| Lead | mg/L | 04/15/2009 | N001 | 0.00087 | | U | # | 0.000032 | |
| Mercury | mg/L | 04/15/2009 | N001 | 0.0000078 | U | | # | 0.0000078 | |
| Nickel | mg/L | 04/15/2009 | N001 | 0.0029 | B | | # | 0.00095 | |
| Oxidation Reduction Potential | mV | 04/15/2009 | N003 | 194.2 | | | # | | |
| pH | s.u. | 04/15/2009 | N003 | 4.82 | | | # | | |
| Selenium | mg/L | 04/15/2009 | N001 | 0.000087 | B | U | # | 0.000018 | |
| Silver | mg/L | 04/15/2009 | N001 | 0.00083 | U | | # | 0.00083 | |
| Specific Conductance | umhos/cm | 04/15/2009 | N003 | 83 | | | # | | |
| Temperature | C | 04/15/2009 | N003 | 17.7 | | | # | | |
| Tritium | pCi/L | 04/15/2009 | N003 | 0 | | U | # | 158 | 95.8 |
| Zinc | mg/L | 04/15/2009 | N001 | 0.03 | | | # | 0.001 | |

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: Reeco Pit (A) SURFACE LOCATION

| Parameter | Units | Sample Date | Sample ID | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/L | 04/15/2009 | N001 | 0.000024 | U | | # | 0.000024 | |
| Arsenic | mg/L | 04/15/2009 | N001 | 0.00016 | | U | # | 0.00001 | |
| Barium | mg/L | 04/15/2009 | N001 | 0.03 | | | # | 0.00018 | |
| Beryllium | mg/L | 04/15/2009 | N001 | 0.00015 | U | | # | 0.00015 | |
| Cadmium | mg/L | 04/15/2009 | N001 | 0.000034 | B | U | # | 0.000032 | |
| Chromium | mg/L | 04/15/2009 | N001 | 0.0012 | B | | # | 0.00055 | |
| Lead | mg/L | 04/15/2009 | N001 | 0.00017 | B | U | # | 0.000032 | |
| Mercury | mg/L | 04/15/2009 | N001 | 0.0000078 | U | | # | 0.0000078 | |
| Nickel | mg/L | 04/15/2009 | N001 | 0.0012 | B | | # | 0.00095 | |
| Oxidation Reduction Potential | mV | 04/15/2009 | N003 | 158.4 | | | # | | |
| pH | s.u. | 04/15/2009 | N003 | 5.24 | | | # | | |
| Selenium | mg/L | 04/15/2009 | N001 | 0.000054 | B | U | # | 0.000018 | |
| Silver | mg/L | 04/15/2009 | N001 | 0.00083 | U | | # | 0.00083 | |
| Specific Conductance | umhos/cm | 04/15/2009 | N003 | 74 | | | # | | |
| Temperature | C | 04/15/2009 | N003 | 15.12 | | | # | | |
| Tritium | pCi/L | 04/15/2009 | N003 | 48.8 | | U | # | 158 | 96.9 |
| Zinc | mg/L | 04/15/2009 | N001 | 0.0045 | B | | # | 0.001 | |

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: Reeco Pit (B) SURFACE LOCATION

| Parameter | Units | Sample Date | Sample ID | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/L | 04/15/2009 | N001 | 0.000029 | B | | # | 0.000024 | |
| Arsenic | mg/L | 04/15/2009 | N001 | 0.00023 | | | # | 0.00001 | |
| Barium | mg/L | 04/15/2009 | N001 | 0.026 | | | # | 0.00018 | |
| Beryllium | mg/L | 04/15/2009 | N001 | 0.00015 | U | | # | 0.00015 | |
| Cadmium | mg/L | 04/15/2009 | N001 | 0.000032 | U | | # | 0.000032 | |
| Chromium | mg/L | 04/15/2009 | N001 | 0.0051 | | | # | 0.00055 | |
| Lead | mg/L | 04/15/2009 | N001 | 0.00036 | B | U | # | 0.000032 | |
| Mercury | mg/L | 04/15/2009 | N001 | 0.0000078 | U | | # | 0.0000078 | |
| Nickel | mg/L | 04/15/2009 | N001 | 0.0025 | B | | # | 0.00095 | |
| Oxidation Reduction Potential | mV | 04/15/2009 | N003 | 167 | | | # | | |
| pH | s.u. | 04/15/2009 | N003 | 5.38 | | | # | | |
| Selenium | mg/L | 04/15/2009 | N001 | 0.000059 | B | U | # | 0.000018 | |
| Silver | mg/L | 04/15/2009 | N001 | 0.00083 | U | | # | 0.00083 | |
| Specific Conductance | umhos/cm | 04/15/2009 | N003 | 102 | | | # | | |
| Temperature | C | 04/15/2009 | N003 | 14.31 | | | # | | |
| Tritium | pCi/L | 04/15/2009 | N003 | 3.26 | | U | # | 158 | 95.9 |
| Zinc | mg/L | 04/15/2009 | N001 | 0.0061 | B | | # | 0.001 | |

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**
REPORT DATE: 7/23/2009
Location: Reeco Pit (C) SURFACE LOCATION

| Parameter | Units | Sample Date | Sample ID | Result | Qualifiers Lab | Qualifiers Data | Qualifiers QA | Detection Limit | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/L | 04/15/2009 | N001 | 0.000024 | U | | # | 0.000024 | |
| Arsenic | mg/L | 04/15/2009 | N001 | 0.00024 | | | # | 0.00001 | |
| Barium | mg/L | 04/15/2009 | N001 | 0.025 | | | # | 0.00018 | |
| Beryllium | mg/L | 04/15/2009 | N001 | 0.00015 | U | | # | 0.00015 | |
| Cadmium | mg/L | 04/15/2009 | N001 | 0.000051 | B | U | # | 0.000032 | |
| Chromium | mg/L | 04/15/2009 | N001 | 0.0032 | | | # | 0.00055 | |
| Lead | mg/L | 04/15/2009 | N001 | 0.00039 | B | U | # | 0.000032 | |
| Mercury | mg/L | 04/15/2009 | N001 | 0.0000078 | U | | # | 0.0000078 | |
| Nickel | mg/L | 04/15/2009 | N001 | 0.0024 | B | | # | 0.00095 | |
| Oxidation Reduction Potential | mV | 04/15/2009 | N003 | 168.7 | | | # | | |
| pH | s.u. | 04/15/2009 | N003 | 5.42 | | | # | | |
| Selenium | mg/L | 04/15/2009 | N001 | 0.000055 | B | U | # | 0.000018 | |
| Silver | mg/L | 04/15/2009 | N001 | 0.00083 | U | | # | 0.00083 | |
| Specific Conductance | umhos/cm | 04/15/2009 | N003 | 119 | | | # | | |
| Temperature | C | 04/15/2009 | N003 | 14.33 | | | # | | |
| Tritium | pCi/L | 04/15/2009 | N003 | 6.51 | | U | # | 158 | 96 |
| Zinc | mg/L | 04/15/2009 | N001 | 0.0084 | B | | # | 0.001 | |

SAMPLE ID CODES: 000X = Filtered sample (0.45 µm). N00X = Unfiltered sample. X = replicate number.

LAB QUALIFIERS:

| | |
|---|---|
| * | Replicate analysis not within control limits. |
| > | Result above upper detection limit. |
| A | TIC is a suspected aldol-condensation product. |
| B | Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank. |
| C | Pesticide result confirmed by GC-MS. |
| D | Analyte determined in diluted sample. |
| E | Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS. |
| H | Holding time expired, value suspect. |
| I | Increased detection limit due to required dilution. |
| J | Estimated |
| N | Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC). |
| P | > 25% difference in detected pesticide or Aroclor concentrations between 2 columns. |
| U | Analytical result below detection limit. |
| W | Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance. |
| X,Y,Z | Laboratory defined qualifier, see case narrative. |

DATA QUALIFIERS:

| | | | | | |
|---|---|---|---|---|---|
| F | Low flow sampling method used. | G | Possible grout contamination, pH > 9. | J | Estimated value. |
| L | Less than 3 bore volumes purged prior to sampling. | Q | Qualitative result due to sampling technique. | R | Unusable result. |
| U | Parameter analyzed for but was not detected. | X | Location is undefined. | | |

QA QUALIFIER:

| | |
|---|---|
| # | Validated according to quality assurance guidelines. |

# Equipment Blank Data

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**BLANKS REPORT**
LAB: ALS Laboratory Group (Fort Collins, CO)
RIN: 09032192
Report Date: 7/23/2009

| Parameter | Site Code | Location ID | Sample Date | ID | Units | Result | Qualifiers Lab | Qualifiers Data | Detection Limit | Uncertainty | Sample Type |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| 1,1,1-Trichloroethane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| 1,1,2,2-Tetrachloroethane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| 1,1,2-Trichloroethane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.2 | U | | 0.2 | | TB |
| 1,1-Dichloroethane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| 1,1-Dichloroethene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| 1,1-Dichloropropene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| 1,2,3-Trichlorobenzene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.2 | U | | 0.2 | | TB |
| 1,2,3-Trichloropropane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.49 | U | | 0.49 | | TB |
| 1,2,4-Trichlorobenzene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| 1,2,4-Trimethylbenzene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| 1,2-Dibromo-3-chloropropane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.64 | U | | 0.64 | | TB |
| 1,2-Dibromoethane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| 1,2-Dichlorobenzene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| 1,2-Dichloroethane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| 1,2-Dichloropropane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| 1,3,5-Trimethylbenzene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |

**BLANKS REPORT**
LAB: ALS Laboratory Group (Fort Collins, CO)
RIN: 09032192
Report Date: 7/23/2009

| Parameter | Site Code | Location ID | Sample Date | ID | Units | Result | Qualifiers Lab | Qualifiers Data | Detection Limit | Uncertainty | Sample Type |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| 1,3-Dichloropropane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.18 | U | | 0.18 | | TB |
| 1,4-Dichlorobenzene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| 1-Chlorohexane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.28 | U | | 0.28 | | TB |
| 2,2-Dichloropropane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| 2-Butanone | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 1.7 | U | | 1.7 | | TB |
| 2-Chlorotoluene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| 2-Hexanone | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 3.3 | U | | 3.3 | | TB |
| 4-Chlorotoluene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| 4-Methyl-2-Pentanone | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 1.7 | U | | 1.7 | | TB |
| Acetone | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 3.3 | U | | 3.3 | | TB |
| Antimony | SAL01 | 0999 | 04/15/2009 | N001 | mg/L | 0.000024 | U | | 0.000024 | | E |
| Arsenic | SAL01 | 0999 | 04/15/2009 | N001 | mg/L | 0.000046 | B | U | 0.00001 | | E |
| Barium | SAL01 | 0999 | 04/15/2009 | N001 | mg/L | 0.00018 | U | | 0.00018 | | E |
| Benzene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Beryllium | SAL01 | 0999 | 04/15/2009 | N001 | mg/L | 0.00015 | U | | 0.00015 | | E |
| Bromobenzene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Bromochloromethane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.21 | U | | 0.21 | | TB |

**BLANKS REPORT**
LAB: ALS Laboratory Group (Fort Collins, CO)
RIN: 09032192
Report Date: 7/23/2009

| Parameter | Site Code | Location ID | Sample Date | ID | Units | Result | Qualifiers Lab | Qualifiers Data | Detection Limit | Uncertainty | Sample Type |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Bromoform | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Bromomethane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.25 | U | | 0.25 | | TB |
| Cadmium | SAL01 | 0999 | 04/15/2009 | N001 | mg/L | 0.000032 | U | | 0.000032 | | E |
| Carbon Disulfide | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Carbon tetrachloride | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Chlorobenzene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Chlorodibromomethane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Chloroethane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.25 | U | | 0.25 | | TB |
| Chloroform | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Chloromethane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Chromium | SAL01 | 0999 | 04/15/2009 | N001 | mg/L | 0.00055 | U | | 0.00055 | | E |
| cis-1,2-Dichloroethene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| cis-1,3-Dichloropropene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Dibromomethane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.18 | U | | 0.18 | | TB |
| Dichlorodifluoromethane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Ethylbenzene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Hexachlorobutadiene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.18 | U | | 0.18 | | TB |

**BLANKS REPORT**
LAB: ALS Laboratory Group (Fort Collins, CO)
RIN: 09032192
Report Date: 7/23/2009

| Parameter | Site Code | Location ID | Sample Date | ID | Units | Result | Qualifiers Lab | Data | Detection Limit | Uncertainty | Sample Type |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Iodomethane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Isopropylbenzene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Lead | SAL01 | 0999 | 04/15/2009 | N001 | mg/L | 0.000032 | U | | 0.000032 | | E |
| m,p-Xylene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.19 | U | | 0.19 | | TB |
| Mercury | SAL01 | 0999 | 04/15/2009 | N001 | mg/L | 0.0000078 | U | | 0.0000078 | | E |
| Methylene chloride | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.43 | B,J | U | 0.17 | | TB |
| n-Butylbenzene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| n-Propylbenzene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Naphthalene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Nickel | SAL01 | 0999 | 04/15/2009 | N001 | mg/L | 0.00095 | U | | 0.00095 | | E |
| o-Xylene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| p-Isopropyltoluene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Propane, 2-methoxy-2-methyl- | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.24 | U | | 0.24 | | TB |
| sec-Butylbenzene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Selenium | SAL01 | 0999 | 04/15/2009 | N001 | mg/L | 0.000043 | B | U | 0.000018 | | E |
| Silver | SAL01 | 0999 | 04/15/2009 | N001 | mg/L | 0.00083 | U | | 0.00083 | | E |
| Styrene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| tert-Butylbenzene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.18 | U | | 0.18 | | TB |

**BLANKS REPORT**
LAB: ALS Laboratory Group (Fort Collins, CO)
RIN: 09032192
Report Date: 7/23/2009

| Parameter | Site Code | Location ID | Sample Date | ID | Units | Result | Qualifiers Lab | Qualifiers Data | Detection Limit | Uncertainty | Sample Type |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Toluene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| trans-1,2-Dichloroethene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| trans-1,3-dichloropropene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Trichloroethene | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Trichlorofluoromethane | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Vinyl Acetate | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.27 | U | | 0.27 | | TB |
| Vinyl chloride | SAL01 | 0999 | 04/14/2009 | N001 | ug/L | 0.17 | U | | 0.17 | | TB |
| Zinc | SAL01 | 0999 | 04/15/2009 | N001 | mg/L | 0.001 | U | | 0.001 | | E |

**BLANKS REPORT**

LAB: Radiation and Indoor Environments National Laboratory (Las Vegas, NV)
RIN: 09032193
Report Date: 7/23/2009

| Parameter | Site Code | Location ID | Sample Date | Sample ID | Units | Result | Qualifiers Lab | Qualifiers Data | Detection Limit | Uncertainty | Sample Type |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cesium-137 | SAL01 | 0999 | 04/15/2009 | N003 | pCi/L | 0 | U | | 4.97 | 0 | E |
| Tritium | SAL01 | 0999 | 04/15/2009 | N003 | pCi/L | 35.7 | | U | 157 | 96.3 | E |

SAMPLE ID CODES: 000X = Filtered sample (0.45 µm). N00X = Unfiltered sample. X = replicate number.

LAB QUALIFIERS:

| | |
|---|---|
| * | Replicate analysis not within control limits. |
| > | Result above upper detection limit. |
| A | TIC is a suspected aldol-condensation product. |
| B | Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank. |
| C | Pesticide result confirmed by GC-MS. |
| D | Analyte determined in diluted sample. |
| E | Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS. |
| H | Holding time expired, value suspect. |
| I | Increased detection limit due to required dilution. |
| J | Estimated |
| N | Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC). |
| P | > 25% difference in detected pesticide or Aroclor concentrations between 2 columns. |
| U | Analytical result below detection limit. |
| W | Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance. |
| X,Y,Z | Laboratory defined qualifier, see case narrative. |

DATA QUALIFIERS:

| | | | | | |
|---|---|---|---|---|---|
| F | Low flow sampling method used. | G | Possible grout contamination, pH > 9. | J | Estimated value. |
| L | Less than 3 bore volumes purged prior to sampling. | Q | Qualitative result due to sampling technique. | R | Unusable result. |
| U | Parameter analyzed for but was not detected. | X | Location is undefined. | | |

SAMPLE TYPES:

| | |
|---|---|
| E | Equipment Blank. |
| TB | Trip Blank. |

# Static Water Level Data

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**STATIC WATER LEVELS (USEE700) FOR SITE SAL01, Salmon Site**
**REPORT DATE: 7/23/2009**

| Location Code | Flow Code | Top of Casing Elevation (Ft) | Measurement Date | Measurement Time | Depth From Top of Casing (Ft) | Water Elevation (Ft) | Water Level Flag |
|---|---|---|---|---|---|---|---|
| HM-L | | 244.02 | 4/14/2009 | 14:02:48 | 91.54 | 152.48 | |
| HM-S | | 244.4 | 4/14/2009 | 15:41:18 | 7.11 | 237.29 | |
| SA1-1-H | | 242.3 | 4/14/2009 | 16:30:35 | 5.25 | 237.05 | |
| SA1-2-H | | 243.08 | 4/14/2009 | 17:40:58 | 6.02 | 237.06 | |
| HM-2A | | 243.54 | 4/14/2009 | 17:50:40 | 116.31 | 127.23 | |
| SA1-3-H | | 241.97 | 4/14/2009 | 19:00:08 | 5.1 | 236.87 | |
| HM-3 | | 243.62 | 4/14/2009 | 19:08:36 | 121.9 | 121.72 | |
| HM-1 | | 243.56 | 4/15/2009 | 10:32:31 | 97.17 | 146.39 | |
| SA1-8-L | | 251.44 | 4/15/2009 | 11:25:40 | 94.48 | 156.96 | |
| HM-2B | | 243.48 | 4/15/2009 | 11:42:00 | 124.29 | 119.19 | |
| SA1-5-H | | 243.53 | 4/15/2009 | 12:51:03 | 5.89 | 237.64 | |
| SA1-11-3 | | 250.06 | 4/15/2009 | 14:00:44 | 131.24 | 118.82 | |
| SA1-4-H | | 242.17 | 4/15/2009 | 15:21:53 | 4.62 | 237.55 | |
| SA3-4-H | | 242.3 | 4/15/2009 | 16:25:12 | 2.94 | 239.36 | |
| SA3-11-3 | | 253.44 | 4/15/2009 | 17:05:43 | 135.6 | 117.84 | |
| SA1-6-H | | 241.97 | 4/15/2009 | 17:30:46 | 4.03 | 237.94 | |
| SA1-7-H | | 243.08 | 4/15/2009 | 18:17:44 | 5.51 | 237.57 | |
| E-7 | | 260.43 | 4/15/2009 | 18:55:45 | 139.23 | 121.2 | |
| HMH-5R | | 239.45 | 4/15/2009 | 19:06:32 | 3.43 | 236.02 | |
| HMH-16R | | 243.56 | 4/16/2009 | 8:59:00 | 4.9 | 238.66 | |
| HMH-16R | | 243.56 | 4/16/2009 | 9:51:15 | 4.9 | 238.66 | |
| SA1-12-H | | 241.43 | 4/16/2009 | 10:15:00 | 6.27 | 235.16 | |
| SA1-12-H | | 241.43 | 4/16/2009 | 10:47:59 | 6.27 | 235.16 | |
| HM-L2 | | 253.73 | 4/16/2009 | 11:19:00 | 98.02 | 155.71 | |
| SA2-2-L | | 325.73 | 4/16/2009 | 12:05:11 | 168.68 | 157.05 | |
| SA2-1-L | | 335.69 | 4/16/2009 | 13:45:30 | 178.61 | 157.08 | |
| HM-L2 | | 253.73 | 4/16/2009 | 14:42:08 | 98.02 | 155.71 | |
| SA4-5-L | | 267.96 | 4/16/2009 | 15:28:00 | 113.15 | 154.81 | |
| SA2-4-L | | 290.6 | 4/16/2009 | 16:40:52 | 133.2 | 157.4 | |

**STATIC WATER LEVELS (USEE700) FOR SITE SAL01, Salmon Site**
**REPORT DATE: 7/23/2009**

| Location Code | Flow Code | Top of Casing Elevation (Ft) | Measurement Date | Measurement Time | Depth From Top of Casing (Ft) | Water Elevation (Ft) | Water Level Flag |
|---|---|---|---|---|---|---|---|
| SA4-5-L | | 267.96 | 4/16/2009 | 16:51:23 | 113.15 | 154.81 | |
| SA1-1-H | | 242.3 | 4/16/2009 | 17:40:00 | 5.75 | 236.55 | |
| SA1-2-H | | 243.08 | 4/16/2009 | 17:43:00 | 6.6 | 236.48 | |
| HM-2A | | 243.54 | 4/16/2009 | 17:45:00 | 115.38 | 128.16 | |
| HM-3 | | 243.62 | 4/16/2009 | 17:47:00 | 121.93 | 121.69 | |
| HM-L | | 244.02 | 4/16/2009 | 17:49:00 | 91.64 | 152.38 | |
| HM-S | | 244.4 | 4/16/2009 | 17:52:00 | 7.63 | 236.77 | |
| HM-1 | | 243.56 | 4/16/2009 | 17:53:00 | 97.18 | 146.38 | |
| HM-2B | | 243.48 | 4/16/2009 | 17:55:00 | 124.29 | 119.19 | |
| SA1-5-H | | 243.53 | 4/16/2009 | 17:57:00 | 6.1 | 237.43 | |
| SA1-3-H | | 241.97 | 4/16/2009 | 18:02:00 | 5.55 | 236.42 | |
| SA3-4-H | | 242.3 | 4/16/2009 | 18:04:00 | 3.21 | 239.09 | |
| SA3-11-3 | | 253.44 | 4/16/2009 | 18:08:00 | 135.67 | 117.77 | |
| E-7 | | 260.43 | 4/16/2009 | 18:13:00 | 139.26 | 121.17 | |
| SA2-2-L | | 325.73 | 4/16/2009 | 18:17:00 | 168.72 | 157.01 | |
| SA5-4-4 | | 301.48 | 4/16/2009 | 18:24:00 | 100.28 | 201.2 | |
| SA1-8-L | | 251.44 | 4/16/2009 | 18:31:00 | 94.55 | 156.89 | |
| SA1-11-3 | | 250.06 | 4/16/2009 | 18:43:00 | 131.3 | 118.76 | |
| SA2-1-L | | 335.69 | 4/16/2009 | 18:46:00 | 178.68 | 157.01 | |
| SA2-2-L | | 325.73 | 4/16/2009 | 18:55:00 | 168.78 | 156.95 | |
| SA2-4-L | | 290.6 | 4/16/2009 | 18:59:00 | 133.27 | 157.33 | |
| HMH-5R | | 239.45 | 4/16/2009 | 19:01:00 | 3.6 | 235.85 | |
| SA1-6-H | | 241.97 | 4/16/2009 | 19:09:00 | 4.24 | 237.73 | |
| SA1-7-H | | 243.08 | 4/16/2009 | 19:12:00 | 5.66 | 237.42 | |
| SA5-5-4 | | 301.04 | 4/16/2009 | 19:55:44 | 161.4 | 139.64 | |
| SA5-5-4 | | 301.04 | 4/16/2009 | | 161.4 | 139.64 | |

FLOW CODES: B BACKGROUND C CROSS GRADIENT D DOWN GRADIENT F OFF SITE
N UNKNOWN O ON SITE U UPGRADIENT

WATER LEVEL FLAGS: D Dry F FLOWING

# Time-Concentration Graphs

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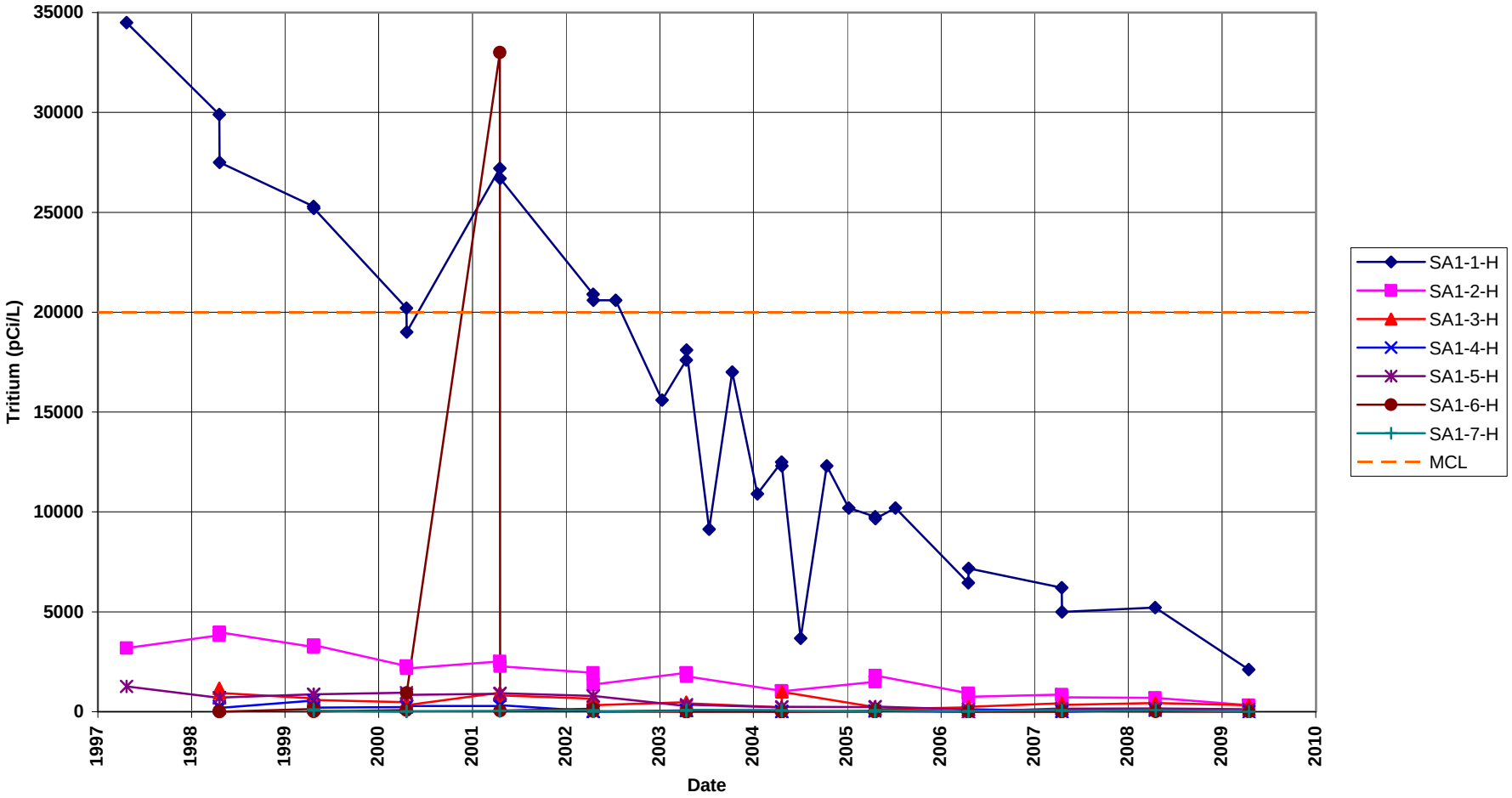
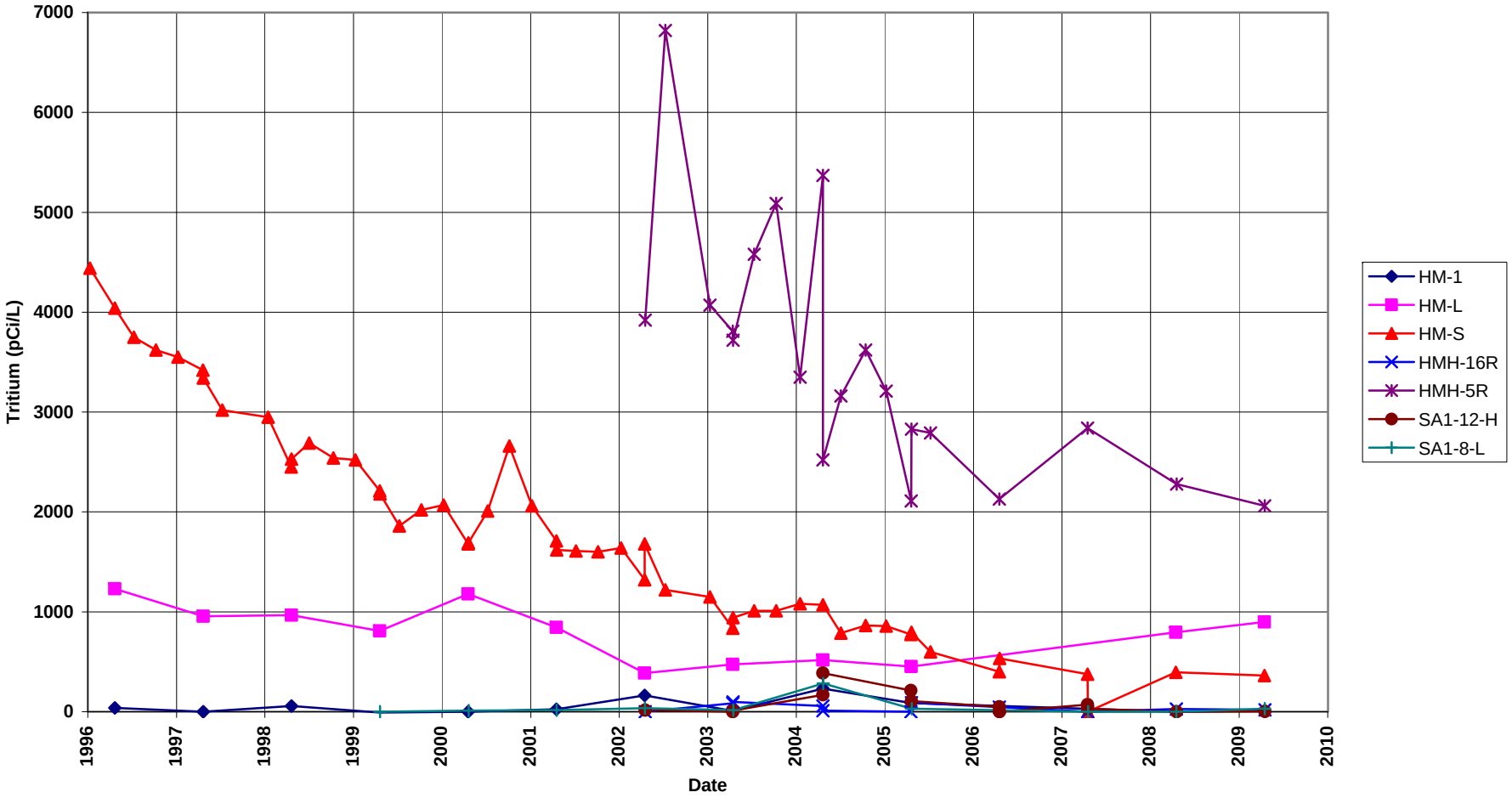
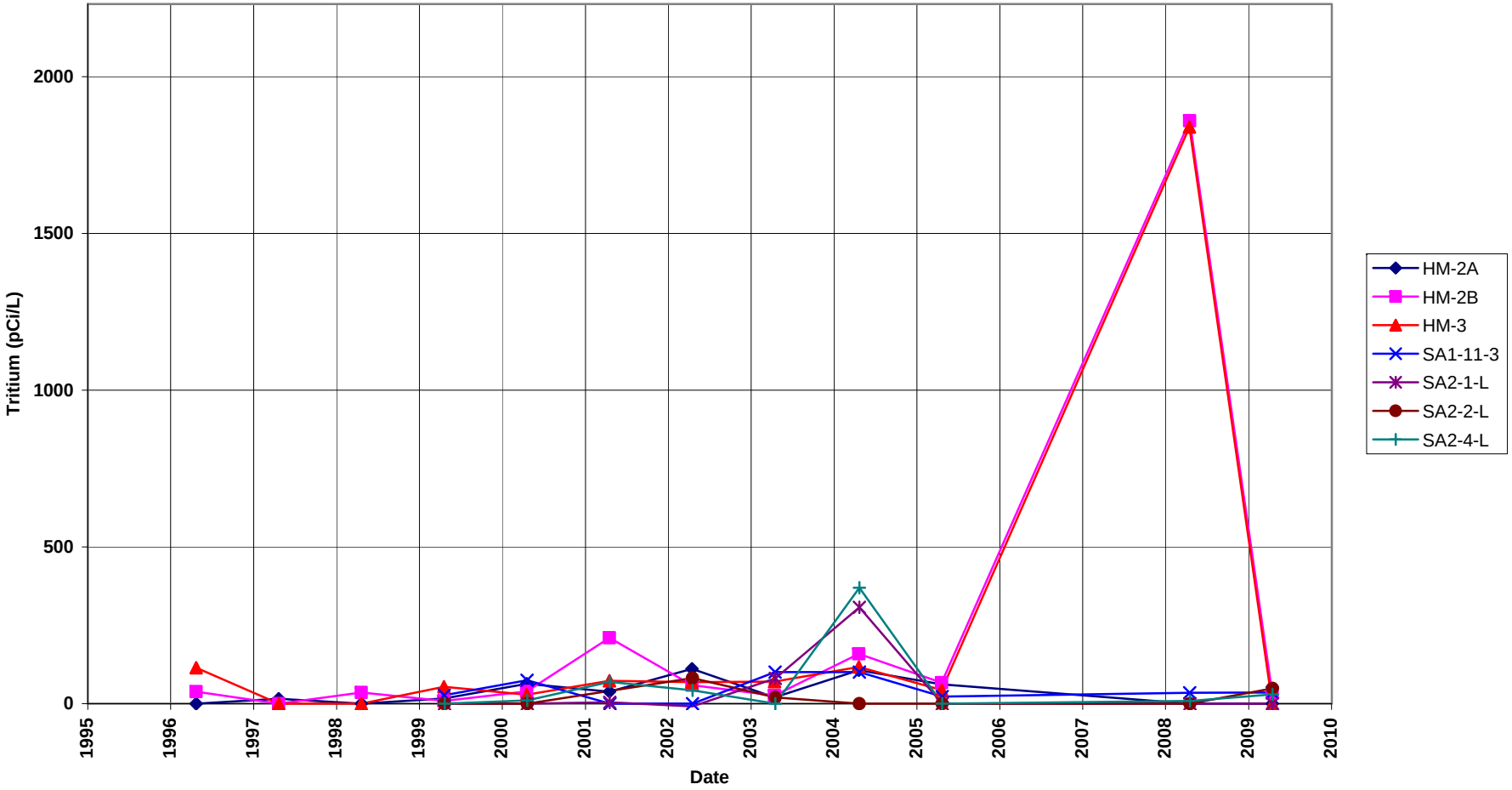
**Salmon Site**
**Tritium Concentration**
Maximum Contaminant Level = 20,000 pCi/L



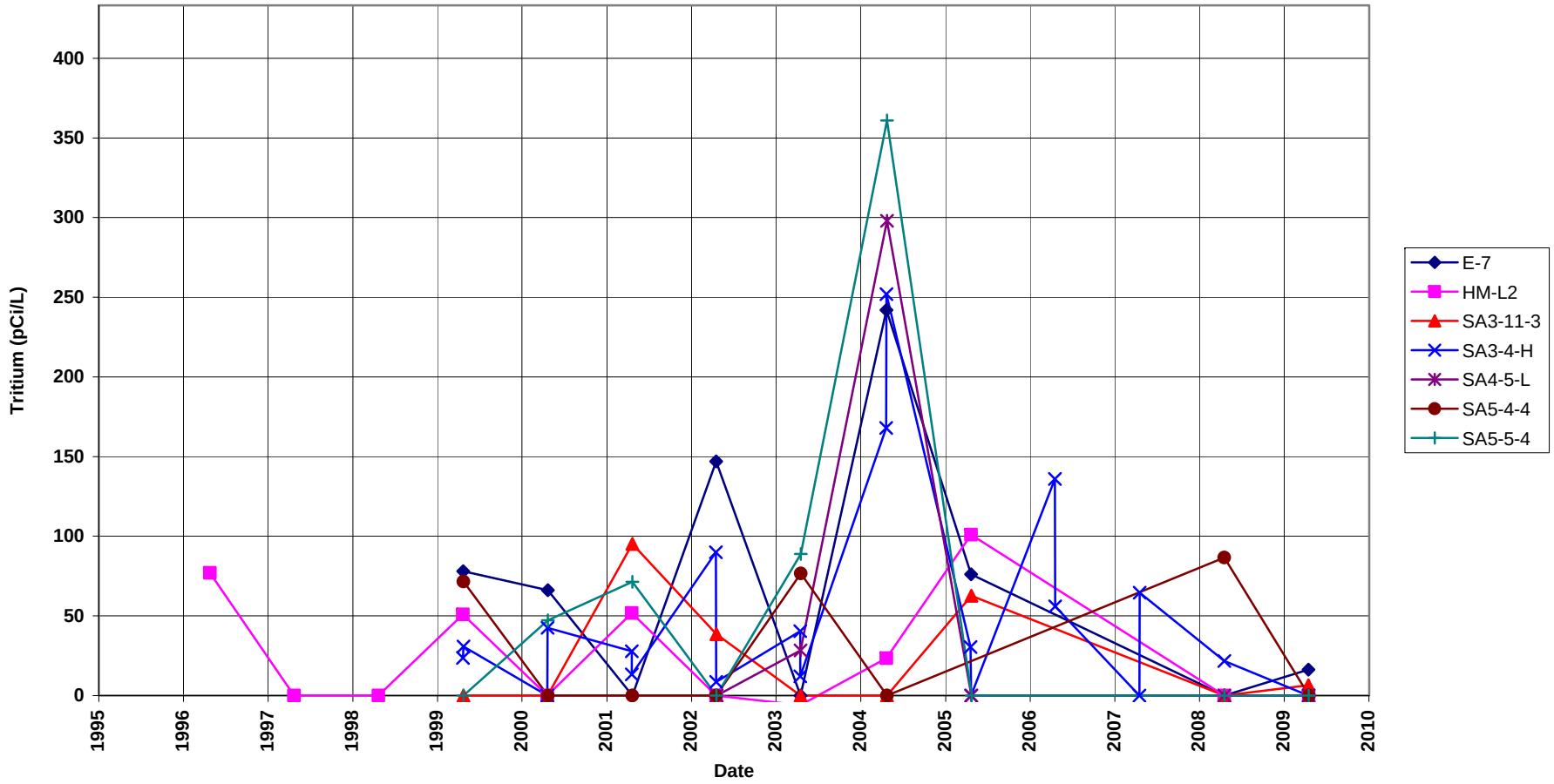
**Salmon Site**
**Tritium Concentration**
Maximum Contaminant Level = 20,000 pCi/L



**Salmon Site**
**Tritium Concentration**
Maximum Contaminant Level = 20,000 pCi/L



**Salmon Site**
**Tritium Concentration**
Maximum Contaminant Level = 20,000 pCi/L



# Attachment 3
# Sampling and Analysis Work Order

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Stoller

*established 1959*

Task Order LM00-502
Control Number 09-0585

March 10, 2009

U.S. Department of Energy
Office of Legacy Management
ATTN: Jack Craig
3600 Collins Ferry Rd.
Morgantown, WV 26505

SUBJECT: Contract No. DE-AM01-07LM00060, Stoller
April 2009 Environmental Sampling at Salmon, Mississippi

REFERENCE: Task Order LM00-502-07-620-402, Salmon, MS

Dear Mr. Craig:

The purpose of this letter is to inform you of the upcoming sampling event at Salmon, Mississippi. Enclosed are the map and tables specifying sample locations and analytes for routine monitoring. Water quality data will be collected at this site as part of the routine environmental sampling scheduled to begin the week of April 13, 2009.

The following lists show the well and surface locations scheduled for sampling during this event.

**Monitor Wells**

| | | | | | | |
|---|---|---|---|---|---|---|
| SA1-1-H | SA1-5-H | HMH-5R | HM-1 | HM-3 | SA2-4-L | HM-L2 |
| SA1-2-H | SA1-6-H | HMH-16R | HM-1 | SA1-11-3 | SA3-4-H | SA4-5-L |
| SA1-3-H | SA1-7-H | HM-8 | HM-2A | SA2-1-L | E-7 | SA5-4-4 |
| SA1-4-H | SA1-12-H | SA1-8-L | HM-2B | SA2-2-L | SA3-11-3 | SA5-5-4 |

**Surface Water**

| | | | |
|---|---|---|---|
| Halfmoon Creek | Pond west of GZ | REECo Pit (B) | Hick Hollow Ck Entry |
| HalfmoonCrkOverflow | REECo Pit (A) | REECo Pit (C) | HickHCrTSD-East |
| Half Moon Ck Entry | Half Moon Ck Exit | Grantham Ck Entry | |

All samples will be collected as directed in the *Sampling and Analysis Plan for U.S. Department of Energy Office of Legacy Management.*

If you have any questions, please call me at (970) 248-7647.

Sincerely,

Jack Duray

Jack Duray
Site Lead

The S.M. Stoller Corporation 2597 B¾ Road Grand Junction, Colorado 81503 (970) 248-6601 Fax: (970) 248-7636

JD/lcg/lb

Enclosures (2)

cc: (electronic)
Cheri Bahrke, Stoller
Steve Donivan, Stoller
Jack Duray, Stoller
Rick Findlay, Stoller
Bev Gallagher, Stoller
Lauren Goodknight, Stoller
Rick Hutton, Stoller
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The S.M. Stoller Corporation 2597 B ¾ Road Grand Junction, Colorado 81503 (970) 248-6601Fax: (970) 248-7636

# Constituent Sampling Breakdown

| Site | Salmon | | | | |
|---|---|---|---|---|---|
| Analyte | Groundwater | Surface Water | Required Detection Limit (mg/L) | Analytical Method | Line Item Code |
| **Approx. No. Samples/yr** | 28 | 11 | | | |
| *Field Measurements* | | | | | |
| Alkalinity | | | | | |
| Dissolved Oxygen | | | | | |
| Redox Potential | | | | | |
| pH | X | X | | | |
| Specific Conductance | X | X | | | |
| Turbidity | | | | | |
| Temperature | X | X | | | |
| *Laboratory Measurements* | | | | | |
| Aluminum | | | | | |
| Ammonia as N (NH3-N) | | | | | |
| Antimony | Selected wells only | Selected locations only | 0.003 | SW-846 6020 | LMM-02 |
| Arsenic | Selected wells only | Selected locations only | 0.0001 | SW-846 6020 | LMM-02 |
| Barium | Selected wells only | Selected locations only | 0.1 | SW-846 6010 | LMM-01 |
| Beryllium | Selected wells only | Selected locations only | 0.0008 | SW-846 6010 | LMM-01 |
| Cadmium | Selected wells only | Selected locations only | 0.001 | SW-846 6020 | LMM-02 |
| Calcium | | | | | |
| Chromium | Selected wells only | Selected locations only | 0.002 | SW-846 6010 | LMM-01 |
| Gamma Spec | Selected wells only | Selected locations only | 10 pCi/L | Gamma Spectrometry | GAM-A-001 |
| Gross Alpha | | | | | |
| Gross Beta | | | | | |
| Iron | | | | | |
| Lead | Selected wells only | Selected locations only | 0.002 | SW-846 6020 | LMM-02 |
| Magnesium | | | | | |
| Manganese | | | | | |
| Mercury | Selected wells only | Selected locations only | 0.0001 | SW-846 7470 | LMM-01 |
| Molybdenum | | | | | |
| Nickel | Selected wells only | Selected locations only | 0.02 | SW-846 6010 | LMM-01 |

| | | | | | |
|---|---|---|---|---|---|
| Nickel-63 | | | | | |
| Nitrate + Nitrite as N (NO3+NO2)-N | | | | | |
| Potassium | | | | | |
| Radium-226 | | | | | |
| Radium-228 | | | | | |
| Selenium | Selected wells only | Selected locations only | 0.0001 | SW-846 6020 | LMM-02 |
| Silver | Selected wells only | Selected locations only | 0.001 | SW-846 6020 | LMM-02 |
| Silica | | | | | |
| Sodium | | | | | |
| Strontium | | | | | |
| Sulfate | | | | | |
| Tritium | X | X | 400 pCi/L | Liquid Scintillation | LSC-A-001 |
| Tritium, enriched | 25% of the samples | 25% of the samples | 10 pCi/L | Liquid Scintillation | LMR-15 |
| Uranium | | | | | |
| Vanadium | | | | | |
| VOCs | Selected wells only | | 0.001 | SW-846 8260, Low Level | LMV-05 |
| Zinc | Selected wells only | Selected locations only | 0.02 | SW-846 6010 | LMM-01 |
| **Total No. of Analytes** | 16 | 15 | | | |

Note: All analyte samples are considered unfiltered unless stated otherwise. All private well samples are to be unfiltered. The total number of analytes does not include field parameters.

# Attachment 4
# Trip Report

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Stoller
established 1959
Grand Junction Office

# Memorandum

Control Number N/A

DATE: 12 May 2009

TO: Rick Hutton

FROM: Jeff Walters and Jack Duray

SUBJECT: 2009 Annual Inspection and Monitoring Trip Report

**Site:** Salmon, MS, Site

**Period of Trip Report:** 13 – 18 April 2009

**Team Members:** Jack Duray, Jeff Walters, Tom Welton, and Tim Zirbes (S.M. Stoller)
Karl Barber and Danny Brantley (Mississippi Department of Health)

## Monitoring

**Number of Locations Sampled[1]:** 39 (28 on-site groundwater wells, 10 on-site and 1 off-site surface water locations)

**Number of Samples Collected:** 43 (28 groundwater, 11 surface water, 2 duplicates, 1 trip blank, and 1 equipment blank)

**Locations Not Sampled/Reason:** None

**Location Specific Sample Information:**

| Ticket Number | Collection Date | Location Name | Description |
|---|---|---|---|
| HEU 830 / HEU 795 | 4/14/09 | SA1–1–H | EPA / Paragon, Cat I |
| HEU 831 / HEU 796 | 4/14/09 | SA1–2–H | EPA / Paragon, Cat I |
| ~~HEU 832~~ / HEU 797 | 4/14/09 | SA1–3–H | EPA (see notes)/Paragon, Cat I |
| HEU 833 / HEU 798 | 4/15/09 | SA1–4–H | EPA / Paragon, Cat I |
| HEU 834 / HEU 799 | 4/15/09 | SA1–5–H | EPA / Paragon, Cat I |
| HEU 835 / HEU 800 | 4/15/09 | SA1–6–H | EPA / Paragon, Cat I |
| HEU 836 / HEU 801 | 4/15/09 | SA1–7–H | EPA / Paragon, Cat I |
| HEU 881 / HEU 802 | 4/16/09 | SA1–12–H | EPA / Paragon, Cat I |
| HEU 838 / HEU 803 | 4/15/09 | HMH–5R | EPA / Paragon, Cat I |
| HEU 839 / HEU 804 | 4/16/09 | HMH–16R | EPA / Paragon, Cat I |
| HEU 840 / HEU 805 | 4/14/09 | HM–S | EPA / Paragon, Cat I |
| HEU 841 / HEU 806 | 4/15/09 | SA1–8–L | EPA / Paragon, Cat I |

[1] The Mississippi Department of Health also collected a sample at each location.

| Ticket Number | Collection Date | Location Name | Description |
|---|---|---|---|
| HEU 842 / HEU 807 | 4/14/09 | HM–L | EPA / Paragon, Cat I |
| HEU 843 | 4/15/09 | HM–1 | EPA Only, Cat I |
| HEU 844 | 4/15/09 | HM–2A | EPA Only, Cat I |
| HEU 845 | 4/15/09 | HM–2B | EPA Only, Cat I |
| HEU 846 / HEU 808 | 4/14/09 | HM–3 | EPA / Paragon, Cat I |
| HEU 847 | 4/15/09 | SA1–11–3 | EPA Only, Cat I |
| ~~HEU 848~~ / HEU 809 | 4/16/09 | SA2–1–L | EPA (see notes) / Paragon, Cat I |
| HEU 849 / HEU 810 | 4/16/09 | SA2–2–L | EPA / Paragon, Cat II |
| HEU 850 / HEU 811 | 4/16/09 | SA2–4–L | EPA / Paragon, Cat I |
| HEU 851 / HEU 812 | 4/15/09 | SA3–4–H | EPA / Paragon, Cat I |
| ~~HEU 852~~ / HEU 813 | 4/15/09 | E–7 | EPA (see notes) / Paragon, Cat I |
| ~~HEU 853~~ | 4/15/09 | SA3–11–3 | EPA Only (see notes), Cat I |
| HEU 854 / HEU 814 | 4/16/09 | HM–L2 | EPA / Paragon, Cat II |
| HEU 855 / HEU 815 | 4/16/09 | SA4–5–L | EPA / Paragon, Cat II |
| HEU 856 | 4/17/09 | SA5–4–4 | EPA Only, Cat HV |
| HEU 857 | 4/16/09 | SA5–5–4 | EPA Only, Cat HV |
| HEU 863 / HEU 816 | 4/15/09 | HALFMOON CREEK | EPA / Paragon, Surface Water |
| HEU 864 / HEU 817 | 4/15/09 | HALFMOONCRK OVERFLOW | EPA / Paragon, Surface Water |
| HEU 865 / HEU 818 | 4/15/09 | Pond West of GZ | EPA / Paragon, Surface Water |
| HEU 866 / HEU 819 | 4/15/09 | REECo Pit (A) | EPA / Paragon, Surface Water |
| HEU 867 / HEU 820 | 4/15/09 | REECo Pit (B) | EPA / Paragon, Surface Water |
| HEU 868 / HEU 821 | 4/15/09 | REECO Pit (C) | EPA / Paragon, Surface Water |
| HEU 869 / HEU 822 | 4/15/09 | Grantham Ck Entry | EPA / Paragon, Surface Water |
| HEU 882 / HEU 828 | 4/16/09 | Half Moon Ck Entry | EPA / Paragon, Surface Water |
| HEU 883 / HEU 829 | 4/16/09 | Hick Hallow Ck Entry | EPA / Paragon, Surface Water |
| HEU 870 / HEU 823 | 4/15/09 | Half Moon Ck Exit | EPA / Paragon, Surface Water |
| HEU 880 / HEU 827 | 4/15/09 | HickHCrTSD–East | EPA / Paragon, Surface Water |
| HEU 877 / HUE 825 | 4/14/09 | 2589/ 2594 | EPA / Paragon -Duplicate of HM–S |
| HEU 878 / HEU 826 | 4/14/09 | 2590/ 2595 | EPA / Paragon Duplicate of SA1–3–H |
| HEU 824 | 4/14/09 | 2592 | Paragon only- Trip Blank |
| No Tickets | 4/15/09 | 2758 | EPA / Paragon-Equipment Blank for Surface Water. The same number is used for both labs. The sample is not recorded on a chain of custody. |

**Sample Notes:**

- Samples with a strikethrough line through the sample ticket number will not be analyzed. These sample containers arrived at the EPA laboratory broken or punctured by broken glass.
- Category I (Cat I): wells that produce a minimum of 100 mL/minute (Sampling and Analysis Plan, LMS/POL/S04351–1.).
- Category II (Cat II): wells that produce less than 100 mL/minute and have an initial water level above the top of the screened interval (Sampling and Analysis Plan, LMS/POL/S04351–1.).
- Category HV (Cat HV): Wells purged by high flow and high volume (S. Campbell).

- HickHCrTSD–East is the only off-site surface sample collection point. The collection location is at Hickory Hollow Creek where it flows eastward under the Tatum Salt Dome Road. Tatum Salt Dome Road is a Lamar County road west of the site.
- Purge water collected from wells HM–3, SA1–3–H, and SA4–5–L (about 1 gallon from each) was combined in a single container and discarded on site per environmental compliance guidance[2].
- Purge water from well HMH–5R (about 1 gallon) was containerized for shipment to the LM Environmental Sciences Lab (LM-ESL), Grand Junction, for treatment (aeration) and disposal per environmental compliance guidance (see Footnote 2). Although this purge water is not regulated, it likely exceeds the MCL for TCE based on the last analysis in 2008. Consequently, this purge water cannot be discarded on site.

**Field Variance:**

- The groundwater samples collected from well SA1–6–H did not meet the turbidity requirement[3] so sample filtration was required. A 0.45 micron filter was used for samples HEU 835 and HEU 800 (the metals sample, not the VOC sample). Karl Barber said that the turbidity is not unusual due to sand pack damage from well casing floating out of position when the well was installed.
- The containerized purge water from well HMH–5R did not arrive at the LM-ESL for treatment. A search of the sample shipments to the laboratories and the material/equipment returned to offices in Pinellas, FL, Weldon Spring, MO, and Grand Junction, CO has not recovered the purge water. The storage unit at Purvis, MS, has not been searched.

**Requisition Numbers Assigned:** 09032193 (EPA), 09032192 (Paragon).

Samples were shipped to: (1) ALS Paragon (Fort Collins, CO) for metals (RCRA metals — arsenic, barium, cadmium, chromium, lead, selenium, silver, and mercury — plus antimony, beryllium, nickel, and zinc) and VOC analyses, and (2) EPA (Las Vegas, NV) for tritium, enriched tritium and high-resolution gamma analyses.

**Quality Control Sample Cross Reference:** Two of the wells duplicated have false (or alias) IDs, one ID for each lab.

| Date | False Id | True Id | Sample Type | Associated Matrix | Ticket Number | Analysis |
|---|---|---|---|---|---|---|
| 4/14/09 | 2592 | ------ | Trip Blank | Analyte Free Water | HEU 824 | VOCs |
| 4/14/09 | 2589 | HM–S | Duplicate | Groundwater | HEU 877 | Gamma,H-3, & Enriched H-3 |
| 4/14/09 | 2594 | HM–S | Duplicate | Groundwater | HEU 825 | VOCs & Metals |
| 4/14/09 | 2590 | SA1–3–H | Duplicate | Groundwater | HEU 878 | H-3 & Enriched H-3 |
| 4/14/09 | 2595 | SA1–3–H | Duplicate | Groundwater | HEU 826 | VOCs & Metals |
| 4/15/09 | 2758 | ------ | Equipment Blank | Analyte Free Water | No ticket | Gamma, H-3, Metals |

[2] Management of Purge Water for the Annual Sampling at the Salmon Site: Note to File, D. DePinho, Environmental Compliance Specialist, 4 April 2009.
[3] Program Directive, Salmon Site, Mississippi, Directive Number SAL–2009–01, S. Campbell, 26 September 2008.

**Water Level Measurements:** Water levels were collected in all sampled on-site wells.

| Date | Time | Location | Water Level (ft. BMP) | Notes |
|---|---|---|---|---|
| 4/16/09 | 1015 | SA1–12–H | 6.27 | |
| 4/16/09 | 1846 | SA2–1–L | 178.68 | |
| 4/16/09 | 1855 | SA2–2–L | 168.78 | |
| 4/16/09 | 1859 | SA2–4–L | 133.27 | |
| 4/16/09 | 1804 | SA3–4H | 3.21 | |
| 4/16/09 | 1808 | SA3–11–3 | 135.67 | |
| 4/16/09 | 1813 | E–7 | 139.26 | |
| 4/16/09 | 1528 | SA4–5–L | 113.15 | |
| 4/16/09 | 1119 | HM–L2 | 98.02 | |
| 4/16/09 | 1507 | SA5–5–4 | 161.40 | |
| 4/16/09 | 1824 | SA5–4–4 | 100.28 | |
| 4/16/09 | 1831 | SA1–8–L | 94.55 | |
| 4/16/09 | 1843 | SA1–11–3 | 131.30 | |
| 4/16/09 | 1753 | HM–1 | 97.18 | |
| 4/16/09 | 1755 | HM–2B | 124.29 | |
| 4/16/09 | 1745 | HM–2A | 115.38 | |
| 4/16/09 | 1747 | HM–3 | 121.93 | |
| 4/16/09 | 1752 | HM–S | 7.63 | |
| 4/16/09 | 1749 | HM–L | 91.63 | |
| 4/16/09 | 1740 | SA1–1–H | 5.75 | |
| 4/16/09 | 1743 | SA1–2–H | 6.60 | |
| 4/16/09 | 1757 | SA1–5–H | 6.10 | |
| 4/16/09 | 1802 | SA1–3–H | 5.55 | |
| 4/15/09 | 1237 | SA1–4–H | 4.62 | WL from 4/15. It was not taken on 4/16. |
| 4/16/09 | 1909 | SA1–6–H | 4.24 | |
| 4/16/09 | 1912 | SA1–7–H | 5.66 | |
| 4/16/09 | 1901 | HMH–5–R | 3.60 | |
| 4/16/09 | 0859 | HMH–16–R | 4.90 | |

**Equipment:**

- 26 wells were sampled using dedicated bladder pumps.
- 2 wells were sampled using dedicated submersible Grundfos electric pumps.
- Surface water samples were collected with a one gallon bucket.
- The bladder pump had been set at 220 feet below the top of the casing in well SA2–4–L. The pump was raised 70 feet and 70 feet of drop tube installed to improve the purge rate. The stainless steel weight at the bottom of the drop tube did not come with a coupling (nipple) to attach the weight (and screen). The weight/screen is in storage (Purvis) awaiting a nipple to attach it to the drop tube.
- Data loggers were installed in 5 wells: SA4–5–L, HM–L2, SA1–8–L, HM–L, and SA2–4–L.

- Water level data recorded by the Troll 500 data logger in well SA2–2–L was downloaded and the test terminated. A new test was started because the water levels showed an increase of about 0.8 foot since the Troll 500 data logger was initialized in March 2008.
- One of the laptops (from Pinellas) was set for Eastern Time and could not be changed to Central Time. All sample times on the chains of custody and sample containers are correct but all data in the field forms are one hour ahead of the actual collection time.

## Inspection

**Well Inspection Summary:** The hinge is broken on SA1–2–H. All the other wells are in good condition.

**Road Inspection Summary:** Four road segments were damaged by recent intense pluvial events. End coordinates of the road segments were measured by a handheld Global Positioning System (GPS) unit so as to estimate the extent of grading necessary and additional road base material, if needed. Digital images were taken. A summary of the road damage with commentary, images, and repair priority is in preparation.

**Road Culvert Location and Assessment:** On-site roads were examined for culverts. Thirty (30) culverts were identified; coordinates for single and pairs of culverts were measured by a handheld GPS unit. (The mid-point of pairs of culverts within 15 feet of one another was measured because the accuracy of the GPS was +/- 15 feet for the 15 second average measurement.) Each culvert was evaluated on a scale of 1 to 5. Some of the new culverts installed November 2008, although rated 5, need immediate work due to pluvial-caused sheeting and erosion of the berms, especially the downstream berms. A summary of the culvert assessment with commentary, images, and priority repair recommendations, is in preparation.

## Institutional Controls

**Fences, Gates, Locks:** The 2 site gates are in good condition. The gates were locked upon final departure from the site, Saturday, 18 April 2009. The lay-down area fence is in good condition. The site-boundary fence is virtually non existent.

**Signs:** All observed signs at the gates and the northwest corner were in good condition. A Federal “No Trespassing” sign was discovered where Half Moon Creek enters the site; it was photographed (see images 794 and 795, 16 April 2009).

**Monument:** Plaque dimensions were measured (15-9/16-inch wide by 9-1/2-inch high) for replacement. The plaque text is not consistent with the deed restriction. The site deed restriction on file with the Lamar County Chancery Clerk specifies that no surface intrusion is permitted without DOE permission. The plaque specifies no intrusion below mean seal level is permitted without DOE permission. The site elevation (i.e., height above mean sea level) varies from approximately 250 feet to slightly over 300 feet.

## Other

**Vegetation/Noxious Weeds:** Four areas with the noxious weed cogongrass have previously been identified and located on site. One area is at ground zero, 2 areas are west of the lay-down area, and one area is in the southwest corner. All four were sprayed with the herbicide recommended by the State of Mississippi. This was the second application for 3 of the areas; the area to the southwest was not sprayed when the other areas were sprayed (November 2008) because of culvert replacement that blocked the road to the area.

**Acidic Surface Water:** This is the first time samples were collected at 2 of the site boundaries (by cardinal point location): Half Moon Creek (south) and Hickory Hollow Creek (west). Comparison of creek water pH flowing into the site from the east, south, and west, with the creek pH flowing out of the site to the north shows the creek leaving the site (Half Moon) is more acidic than the creeks flowing into the site. Field data collected in April 2009 are:

| Sample Name | Approximate Sample Collection Location | Creek Flow | pH |
|---|---|---|---|
| Half Moon Ck Exit | North, mid-boundary | Leaving | 4.89 |
| Grantham Ck Entry | East, mid-boundary | Entering | 6.30 |
| Half Moon Ck Entry | South, mid-boundary | Entering | 6.92 |
| Hick Hollow Ck Entry | West, mid-boundary | Entering | 5.12 |

The April 2009 field data from the 12 shallow (alluvial) wells has not been loaded into the SEEPro database. Analysis of April 2008 field pH measurements made on water collected from 12 alluvial wells (30 feet deep or less) shows an average mean pH of 6.06 with a maximum value of 6.60 and minimum value of 5.53.

The acidic sources are neither the creek waters flowing into the site nor alluvial water that drains into on-site creeks. These results suggest decaying vegetative matter (e.g., pine needles).

## Site Issues

**Malicious Mischief:** Friday morning, 17 April 2009, the vehicle used by Mississippi Department of Health personnel required tire repair due to nail punctures believed to have occurred at the motel. Late Friday afternoon, the GSA truck driven by one of the sampler personnel from Weldon Spring, MO, required repair of tire punctures. Saturday morning, tires on the GSA vehicle driven from Pinellas, FL, and the rental vehicle driven from the New Orleans airport also indicated low air pressure.

At 07:45 CT the first call was made to the NVOS Project Manager (message left); the next call was made to the Project/Programs Manager (message left). While trying to contact Health and Safety, the General Manager called and was briefed on the incident and the action plan.

Later that morning, when the vehicles were on the tire repair service rack, the full extent of the damage was realized: 5 tires were replaced and the other tires repaired on 2 GSA vehicles and the rental vehicle. Rear tires on the two U-Haul rental step vans (used to support site sampling) also picked up nails but did not indicate low pressure. The rental agency was advised.

**Corrective Action Taken:** Advisory calls were made to site key holders likely to go on site. Some were sent an advisory e-mail.

A malicious mischief report was filed with the Lamar County, Mississippi, Sheriff's Department early Saturday afternoon, 18 April 2009.

Late Saturday afternoon, the roads from Levi Bryant Road (the beginning of the northeast easement) to the southwest corner were walked with a game warden from the Mississippi Department of Fisheries, Wildlife and Parks. A second game warden drove a follow-up vehicle.

The road segment approximately adjacent to well SA5–4–4 in the southwest corner and extending toward the west gate was found to be heavily populated with flathead nails. A few handfuls of nails were picked up and returned to Grand Junction. The game wardens said they would return later with a metal detector.

An Incident/Safety Report was filed the following week in the Grand Junction office and forwarded to Health and Safety with the Sheriff's Incident Report attached. An Incident Report was filed by the AFM guard who answered the 24/7 Grand Junction telephone number on Saturday morning, 18 April.

**Maintenance Requirements:** The road inspection and culvert inspection summaries (both in preparation) will be used to develop a maintenance plan.

Digital images were taken of damaged roads and many of the culverts for location and assessment. On Monday, 13 April 2009, the drive to the site was done during an intense downpour. Streams and other drainages in the area surrounding the site were overwhelmed with run-off water. The rain stopped before we entered the site. The daily on-site images for 13 April show some of the rainfall run-off effects. Daily images, Tuesday, 14 April 2009, through Saturday, 18 April 2009, were also taken. These images have been up-loaded to the Gull share drive folder. Go to \\Gull\sites_prod\Sites\MS\SALMON\Images\2009\20090413_20090418_Duray_RoadCulvert.

(JRD/JW/lcg)

cc: (electronic)
Jack Craig, DOE
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EDD Delivery

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