

# Data Validation Package

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**April 2012**  
**Groundwater and Surface**  
**Water Sampling at the**  
**Salmon, Mississippi, Site**

**October 2012**



**U.S. DEPARTMENT OF**  
**ENERGY**

Legacy  
Management

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## **Attachment 1—Assessment of Anomalous Data**

Potential Outliers Report

## **Attachment 2—Data Presentation**

Groundwater Quality Data  
Surface Water Quality Data  
Static Water Level Data  
Time-Concentration Graphs

## **Attachment 3—Sampling and Analysis Work Order**

## **Attachment 4—Trip Report**

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# Sampling Event Summary

**Site:** Salmon, Mississippi, Site

**Sampling Period:** April 16–19, 2012

The *Long-Term Surveillance and Maintenance Plan for the Salmon Site, Lamar County, Mississippi* (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 also were sampled to verify that discharge of shallow contaminated groundwater is not adversely affecting surface water leaving the site.

Sampling and analysis were conducted as specified in the *Sampling and Analysis Plan for U.S. Department of Energy Office of Legacy Management Sites* (LMS/PLN/S04351, continually updated). Duplicate samples were collected from locations SA1-1-H, HMH-5R, SA3-4-H, SA1-2-H, Pond W of GZ, and SA5-4-4. 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) 12044462; and for tritium and gamma-emitting nuclide analyses by the GEL Laboratories under RIN 12044463.

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

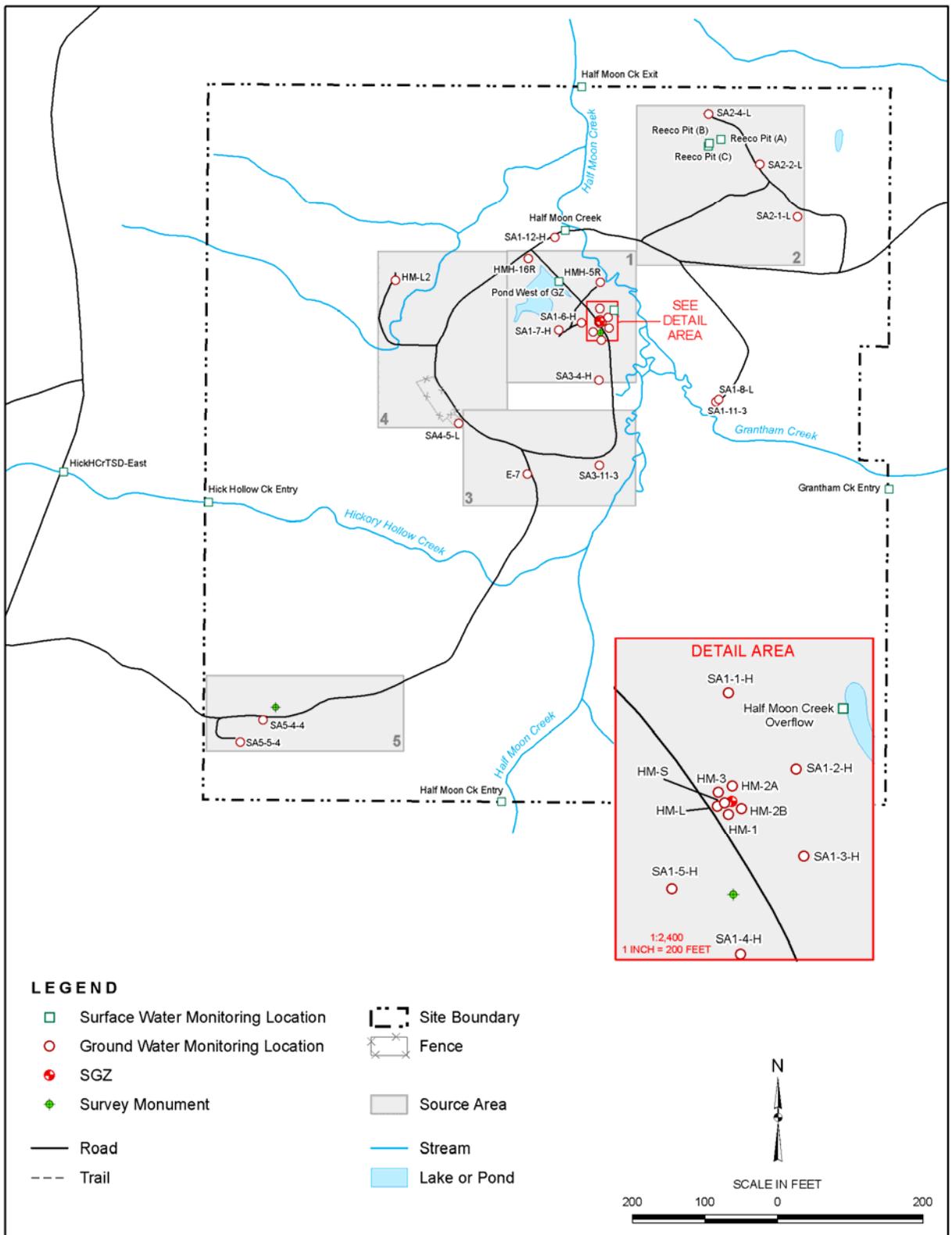
Table 1. Analytical Results Exceeding MCL for Sampled Wells

Analyte	MCL (mg/L)	Location	Result (mg/L)
Arsenic	0.010	SA1-3-H	0.015
Arsenic	0.010	SA1-7-H	0.014
Barium	2.000	SA4-5-L	2.600
Chromium	0.100	HM-3	0.110
Trichloroethene	0.005	HMH-5R	0.051

Time-concentration graphs are included for selected contaminant concentrations in onsite groundwater monitoring wells. An upward trend in volatile organic contaminant concentrations was observed in well HM-S.

  
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Jack Duray  
Site Lead, S.M. Stoller Corporation

26 October 2012  
Date



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

# Data Assessment Summary

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### Water Sampling Field Activities Verification Checklist

<b>Project</b>	<u>Salmon, Mississippi</u>	<b>Date(s) of Water Sampling</b>	<u>April 16–19, 2012</u>
<b>Date(s) of Verification</b>	<u>July 25, 2012</u>	<b>Name of Verifier</b>	<u>Steve Donovan</u>

	<b>Response (Yes, No, NA)</b>	<b>Comments</b>
1. Is the SAP the primary document directing field procedures? List other documents, SOPs, instructions.	<u>Yes</u>	<u>Work Order letter dated March 12, 2012.</u>
2. Were the sampling locations specified in the planning documents sampled?	<u>Yes</u>	
3. Was a pre-trip calibration conducted as specified in the above-named documents?	<u>Yes</u>	<u>Pre-trip calibrations were performed on April 12, 2012.</u>
4. Was an operational check of the field equipment conducted daily?  Did the operational checks meet criteria?	<u>Yes</u>  <u>No</u>	<u>Instrument ID "1242" did not meet pH criteria on 4-18-2012. Instrument ID "TurbQ1" did not meet turbidity criteria on 4-18-2012.</u>
5. Were the number and types (alkalinity, temperature, specific conductance, pH, turbidity, DO, ORP) of field measurements taken as specified?	<u>Yes</u>	
6. Was the category of the well documented?	<u>Yes</u>	
7. Were the following conditions met when purging a Category I well: Was one pump/tubing volume purged prior to sampling?	<u>Yes</u>	
Did the water level stabilize prior to sampling?	<u>Yes</u>	
Did pH, specific conductance, and turbidity measurements stabilize prior to sampling?	<u>Yes</u>	
Was the flow rate less than 500 mL/min?	<u>Yes</u>	
If a portable pump was used, was there a 4-hour delay between pump installation and sampling?	<u>NA</u>	

### 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	Six duplicate samples were collected.
10. Were equipment blanks taken at a frequency of one per 20 samples that were collected with nondedicated equipment?	NA	Dedicated equipment was used.
11. Were trip blanks prepared and included with each shipment of VOC samples?	Yes	
12. Were QC samples assigned a fictitious site identification number? Was the true identity of the samples recorded on the Quality Assurance Sample Log or in the Field Data Collection System (FDCS) report?	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	An incorrect sample time was entered on the COC form for sample SA5-4-4.
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	

## Laboratory Performance Assessment

### General Information

Report Number (RIN): 12044462  
 Sample Event: April 16-19, 2012  
 Site(s): Salmon LTS&M, Mississippi  
 Laboratory: ALS Laboratory Group, Fort Collins, Colorado  
 Work Order No.: 1204297  
 Analysis: Metals and Organics  
 Validator: Steve Donovan  
 Review Date: July 24, 2012

This validation was performed according to the *Environmental Procedures Catalog* (LMS/PRO/S04325, continually updated), “Standard Practice for Validation of Laboratory Data.” 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-07	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.

*Table 3. Data Qualifier Summary*

Sample Number	Location	Analyte(s)	Flag	Reason
1204297-1	HALFMOON CREEK	Zinc	J	Negative calibration blank
1204297-2	HALFMOONCRKOVERFLOW	Zinc	J	Negative calibration blank
1204297-6	Half Moon Ck Exit	Zinc	J	Negative calibration blank
1204297-7	HickHCrtSD-East	Zinc	J	Negative calibration blank
1204297-8	Half Moon Ck Entry	Zinc	J	Negative calibration blank
1204297-10	Reeco Pit (B)	Chromium	J	Negative calibration blank
1204297-10	Reeco Pit (B)	Zinc	J	Negative calibration blank
1204297-11	Reeco Pit (C)	Chromium	J	Negative calibration blank
1204297-11	Reeco Pit (C)	Zinc	J	Negative calibration blank
1204297-12	SA1-1-H	Lead	J	Poor duplicate precision

Table 3 (continued). Data Qualifier Summary

Sample Number	Location	Analyte(s)	Flag	Reason
1204297-13	SA1-2-H	Lead	U	Less than 5 times the method blank
1204297-14	SA1-3-H	Lead	U	Less than 5 times the method blank
1204297-14	SA1-3-H	pH	J	Operational check failure
1204297-15	SA1-4-H	Lead	U	Less than 5 times the calibration blank
1204297-16	SA1-5-H	Zinc	J	Negative calibration blank
1204297-17	SA1-6-H	Arsenic	U	Less than 5 times the calibration blank
1204297-17	SA1-6-H	Barium	J	Serial dilution failure
1204297-17	SA1-6-H	Lead	U	Less than 5 times the method blank
1204297-17	SA1-6-H	Turbidity	J	Operational check failure
1204297-18	SA1-7-H	Lead	U	Less than 5 times the calibration blank
1204297-19	SA1-12-H	Arsenic	J	PQL verification failure
1204297-19	SA1-12-H	Lead	U	Less than 5 times the calibration blank
1204297-19	SA1-12-H	pH	J	Operational check failure
1204297-20	HMH-5R	Zinc	J	Negative calibration blank
1204297-21	HMH-16R	Arsenic	J	PQL verification failure
1204297-21	HMH-16R	Mercury	U	Less than 5 times the calibration blank
1204297-21	HMH-16R	pH	J	Operational check failure
1204297-22	HM-S	Arsenic	J	PQL verification failure
1204297-22	HM-S	Mercury	U	Less than 5 times the calibration blank
1204297-24	HM-L	Lead	U	Less than 5 times the calibration blank
1204297-24	HM-L	Mercury	U	Less than 5 times the calibration blank
1204297-25	HM-3	Mercury	U	Less than 5 times the calibration blank
1204297-25	HM-3	Zinc	J	Negative calibration blank
1204297-26	SA2-1-L	Mercury	U	Less than 5 times the calibration blank
1204297-27	SA2-2-L	Mercury	U	Less than 5 times the calibration blank
1204297-28	SA2-1-L	Mercury	U	Less than 5 times the calibration blank
1204297-29	SA3-4-H	Arsenic	J	PQL verification failure
1204297-29	SA3-4-H	pH	J	Operational check failure
1204297-29	SA3-4-H	Mercury	U	Less than 5 times the calibration blank
1204297-31	HM-L2	Arsenic	U	Less than 5 times the calibration blank
1204297-31	HM-L2	Mercury	U	Less than 5 times the calibration blank
1204297-32	SA4-5-L	Arsenic	J	PQL verification failure
1204297-32	SA4-5-L	Mercury	U	Less than 5 times the calibration blank
1204297-33	SA1-1-H Duplicate	Lead	J	Poor duplicate precision
1204297-33	SA1-1-H Duplicate	Mercury	U	Less than 5 times the calibration blank
1204297-33	SA1-1-H Duplicate	Zinc	J	Negative calibration blank
1204297-34	HMH-5R Duplicate	Lead	U	Less than 5 times the method blank
1204297-34	HMH-5R Duplicate	Mercury	U	Less than 5 times the calibration blank
1204297-35	SA3-4-H Duplicate	Arsenic	U	Less than 5 times the calibration blank
1204297-35	SA3-4-H Duplicate	pH	J	Operational check failure

## Sample Shipping/Receiving

ALS Laboratory Group in Fort Collins, Colorado, received 38 water samples on April 20, 2012, 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 had no errors or omissions.

## Preservation and Holding Times

The sample shipments were received cool and intact with the temperature inside the iced cooler at 2.6 °C, which complies with requirements. All samples were received in the correct container types and had been preserved correctly for the requested analyses. All samples analysis was performed within the applicable holding times.

## Detection and Quantitation Limits

The method detection limit (MDL) was reported for all metal, organic, and wet chemical analytes as required. The MDL, as defined in 40 CFR 136, is the minimum concentration of an analyte that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero. The practical quantitation limit (PQL) for these analytes is the lowest concentration that can be reliably measured, and is defined as 5 times the MDL.

The reported MDLs for all metal and organic analytes demonstrate compliance with contractual requirements.

## 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. 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. All calibration and laboratory spike standards were prepared from independent sources.

### *Method SW-846 6010B*

Calibrations for method 6010B metals were performed on April 25, 2012, using a multi-point calibration. The initial calibrations were performed using four calibration standards resulting in calibration curves where the absolute value of the curve intercepts were less than 3 times the MDL. Calibration and laboratory spike standards were prepared from independent sources. Continuing calibration verification checks were made at the required frequency resulting in 12 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 PQL. The verification checks were within the acceptance criteria range.

#### *Method SW-846 6020A*

Calibrations for antimony, arsenic, cadmium, lead, and selenium were performed on April 25, 2012. The initial calibrations were performed using four calibration standards resulting in calibration curves where the absolute value of the curve intercepts were less than 3 times the MDL. Calibration and laboratory spike standards were prepared from independent sources. Initial and continuing calibration verification checks were made at the required frequency resulting in seven 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 PQL. The check results were within the acceptance range for all analytes except arsenic. Sample arsenic results that are greater than the MDL but less than 5 times the PQL are qualified with a “J” flag as estimated values. 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 25, 2012, using six 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 eight 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 PQL. The verification checks were within the acceptance criteria range.

#### *Method SW-846 8260B, Volatile Organics*

Initial calibrations were performed on April 25, 2012, 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 MDL. 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. 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 PQLs for all analytes. In cases where the 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 MDL but less than 5 times the blank concentration. For lead, nickel, and zinc some blank results were negative and the absolute values were greater than the MDL. All associated sample results that were greater than the MDL but less than 5 times the MDL are flagged with a “J” as estimated values.

#### 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.

#### 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 PQL 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 iodomethane. Iodomethane was not detected in any of the associated samples, not requiring qualification.

#### Metals Serial Dilution

Serial dilutions were prepared and analyzed for the metals analyses to monitor chemical or physical interferences in the sample matrix. Serial dilution data are evaluated when the concentration of the undiluted sample is greater than 50 times the MDL. The serial dilution data met the acceptance criteria with the following exception. The barium result for the serial dilution prepared from sample SA1-6-H did not meet the acceptance criteria. The associated barium sample result is qualified with a “J” flag as an estimated value.

#### 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 1, 2012. 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: 12044462 Lab Code: PAR Validator: Steve Donovan Validation Date: 7/24/2012  
Project: Salmon LTS&M Analysis Type:  Metals  General Chem  Rad  Organics  
# of Samples: 38 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
- Detection Limits
- Field/Trip Blanks
- Field Duplicates

All analyses were completed within the applicable holding times.

There are 0 detection limit failures.

There was 1 trip/equipment blank evaluated.

There were 4 duplicates evaluated.

**SAMPLE MANAGEMENT SYSTEM**  
**Metals Data Validation Worksheet**

RIN: 12044462      Lab Code: PAR      Date Due: 5/18/2012  
 Matrix: Water      Site Code: SAL01      Date Completed: 5/2/2012

Analyte	Method Type	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	ICP/MS	04/25/2012	0.0000	1.0000	OK	OK	OK	OK	OK	95.0	92.0	93.0	1.0	100.0		82.0
Antimony	ICP/MS	04/25/2012							OK	94.0	98.0	93.0	4.0			
Arsenic	ICP/MS	04/25/2012	0.0000	1.0000	OK	OK	OK	OK	OK	100.0	96.0	98.0	2.0	107.0	7.0	156.0
Arsenic	ICP/MS	04/25/2012							OK	98.0	98.0	98.0	1.0			
Barium	ICP/ES	04/25/2012	0.0000	1.0000	OK	OK	OK	OK	OK	97.0	93.0	92.0	1.0	101.0	24.0	102.0
Barium	ICP/ES	04/25/2012							OK	95.0	97.0	97.0	0.0	100.0	8.0	101.0
Beryllium	ICP/ES	04/25/2012	0.0000	1.0000	OK	OK	OK	OK	OK	97.0	96.0	95.0	1.0	101.0		119.0
Beryllium	ICP/ES	04/25/2012							OK	97.0	98.0	97.0	1.0	101.0		118.0
Cadmium	ICP/MS	04/25/2012	0.0000	1.0000	OK	OK	OK	OK	OK	99.0	93.0	96.0	4.0	98.0		122.0
Cadmium	ICP/MS	04/25/2012							OK	95.0	96.0	93.0	3.0			
Chromium	ICP/ES	04/25/2012	0.0000	1.0000	OK	OK	OK	OK	OK	100.0	94.0	94.0	1.0	96.0		106.0
Chromium	ICP/ES	04/25/2012							OK	96.0	100.0	99.0	1.0	99.0		110.0
Lead	ICP/MS	04/25/2012	0.0000	1.0000	OK	OK	OK	OK	OK	97.0	96.0	98.0	1.0	102.0		111.0
Lead	ICP/MS	04/25/2012							OK	97.0	94.0	96.0	2.0			
Mercury	CVAA	04/25/2012	0.0000	1.0000	OK	OK	OK	OK	OK	99.0	88.0	86.0	3.0			92.0
Mercury	CVAA	04/25/2012	0.0000	1.0000	OK	OK	OK	OK	OK	98.0	100.0	100.0	0.0			94.0
Nickel	ICP/ES	04/25/2012	0.0000	1.0000	OK	OK	OK	OK	OK	105.0	94.0	94.0	1.0	95.0		103.0
Nickel	ICP/ES	04/25/2012							OK	96.0	99.0	98.0	1.0	97.0		105.0

**SAMPLE MANAGEMENT SYSTEM**  
**Metals Data Validation Worksheet**

RIN: 12044462      Lab Code: PAR      Date Due: 5/18/2012  
 Matrix: Water      Site Code: SAL01      Date Completed: 5/2/2012

Analyte	Method Type	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	ICP/MS	04/25/2012	0.0000	1.0000	OK	OK	OK	OK	OK	102.0	99.0	98.0	2.0	104.0		91.0
Selenium	ICP/MS	04/25/2012							OK	99.0	100.0	102.0	1.0			
Silver	ICP/ES	04/25/2012	0.0000	1.0000	OK	OK	OK	OK	OK	91.0	91.0	89.0	2.0	100.0		98.0
Silver	ICP/ES	04/25/2012							OK	89.0	90.0	88.0	1.0	101.0		97.0
Zinc	ICP/ES	04/25/2012	0.0000	1.0000	OK	OK	OK	OK	OK	98.0	98.0	97.0	1.0	95.0		126.0
Zinc	ICP/ES	04/25/2012							OK	99.0	101.0	99.0	2.0	99.0		130.0

## SAMPLE MANAGEMENT SYSTEM Organics Data Validation Summary

**RIN:** 12044462

**Project:** Salmon LTS&M

**Lab Code:** PAR

**Validation Date:** 7/24/2012

**LCS Recovery:** There were 2 LCS failures.

**Method Blank(s):** All method blanks results were below the method detection limit.

**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

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## Non-Compliance Report: LCS Recovery

RIN: 12044462      Lab Code: PAR

Project: Salmon LTS&M

Validation Date: 7/24/2012

LCS/LCSD	Date Analyzed	Method	Analyte	Recovery	Lower Limit	Upper Limit
LCSD	04/27/2012	SW8260_25	Iodomethane	60.0	72.0	126.0
LCS	04/27/2012	SW8260_25	Iodomethane	55.0	72.0	126.0

## General Information

RIN: 12044463  
 Sample Event: April 16-19, 2012  
 Site(s): Salmon LTS&M, Mississippi  
 Laboratory: GEL Laboratories, Charleston, South Carolina  
 Work Order No.: 303013, 303019, 303021  
 Analysis: Radiochemistry  
 Validator: Steve Donovan  
 Review Date: July 25, 2012

This validation was performed according to the *Environmental Procedures Catalog* (LMS/PRO/S04325, continually updated), "Standard Practice for Validation of Laboratory Data." 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 4.

*Table 4. Analytes and Methods*

Analyte	Line Item Code	Prep Method	Analytical Method
Gamma Spectrometry	GAM-A-001	EPA 901.1	EPA 901.1
Tritium	LSC-A-001	EPA 906.0	EPA 906.0
Tritium, Enrichment Method	LMR-17	DOE EML HASL 300	DOE EML HASL 300

## 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 Number	Location	Analyte(s)	Flag	Reason
303013003	E-7	Thorium-234	U	Less than the decision level
303013003	E-7	Uranium-238	U	Less than the decision level
303013004	Grantham Ck Entry	Uranium-235	U	Less than the decision level
303013010	HM-1	Tritium (Enrichment Method)	J	Less than the determination limit
303013013	HM-3	Lead-212	U	Less than the decision level
303013017	SA1-7-H	Tritium (Enrichment Method)	J	Less than the determination limit
303013019	SA5-4-4	Tritium (Enrichment Method)	J	Less than the determination limit
303019003	HM-L	Tritium	J	Less than the determination limit
303019006	HM-S	Tritium	J	Less than the determination limit
303019013	SA1-2-H	Tritium	J	Less than the determination limit
303019014	SA1-3-H	Tritium	J	Less than the determination limit
303019017	SA2-1-L	pH	J	Operational check failure
303019017	SA2-1-L	Thorium-234	U	Less than the decision level
303019017	SA2-1-L	Uranium-238	U	Less than the decision level
303019019	SA2-4-L	Cesium-137	J	Less than the determination limit
303021002	SA4-5-L	Potassium-40	J	Less than the determination limit

### Sample Shipping/Receiving

GEL Laboratories in Charleston, South Carolina, received 42 water samples on April 20, 2012, accompanied by a 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 had no errors or omissions.

### Preservation and Holding Times

The sample shipments were received intact at ambient temperature which complies with requirements. All samples were received in the correct container types and had been preserved correctly for the requested analyses. Sample aliquots for gamma spectrometry were shipped unpreserved, then preserved with nitric acid by the laboratory upon receipt. All samples analysis was performed within the applicable holding times.

### Detection and Quantitation Limits

Radiochemical results are evaluated using the minimum detectable concentration (MDC), Decision Level Concentration (DLC), and Determination Limit (DL). The MDC is a measure of radiochemical method performance and was calculated and reported as specified in *Quality Systems for Analytical Services*. The DLC is the minimum concentration of an analyte that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero, and is estimated as 3 times the one-sigma total propagated uncertainty. Results that are greater than the MDC, but less than the DLC are qualified with a “U” flag (not detected). The DL for radiochemical results is the lowest concentration that can be reliably measured, and is defined as 3 times the MDC. Results not previously “U” qualified that are less than the DL are qualified with a “J” flag as estimated values.

The reported MDCs for radiochemical analytes demonstrate compliance with contractual requirements.

### 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. 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. All calibration and laboratory spike standards were prepared from independent sources.

### Method Blanks

Method blanks are analyzed to assess any contamination that may have occurred during sample preparation. All method blank results associated with the samples were below the DLC for all analytes.

### 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.

### Laboratory Replicate Analysis

Laboratory replicate analyses are used to determine laboratory precision for each sample matrix. The relative error ratio (the ratio of the absolute difference between the sample and duplicate results and the sum of the 1-sigma uncertainties) is used to evaluate duplicate results. The relative error ratio for the replicate results was less than 3, indicating 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.

### Completeness

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

### EDD File

The EDD file with the complete data arrived on July 19, 2012. 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: 12044463 Lab Code: GEN Validator: Steve Donovan Validation Date: 7/24/2012  
Project: Salmon LTS&M Analysis Type:  Metals  General Chem  Rad  Organics  
# of Samples: 41 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
- Detection Limits
- Field/Trip Blanks
- Field Duplicates

All analyses were completed within the applicable holding times.

There are 0 detection limit failures.

There were 2 duplicates evaluated.

**SAMPLE MANAGEMENT SYSTEM**  
**Radiochemistry Data Validation Worksheet**

RIN: 12044463                      Lab Code: GEN                      Date Due: 7/19/2012  
 Matrix: Water                      Site Code: SAL01                      Date Completed: 7/19/2012

Sample	Analyte	Date Analyzed	Result	Flag	Tracer %R	LCS %R	MS %R	Duplicate
HickHCrTSD-Eas	Actinium-228	04/28/2012						1.62
2589	Actinium-228	04/29/2012						0.06
HickHCrTSD-Eas	Americium-241	04/28/2012						0.66
Blank_Spike	Americium-241	04/28/2012				99.80		
2589	Americium-241	04/29/2012						0.53
Blank_Spike	Americium-241	04/30/2012				106.00		
HickHCrTSD-Eas	Antimony-125	04/28/2012						0.91
2589	Antimony-125	04/29/2012						0.07
HickHCrTSD-Eas	Cerium-144	04/28/2012						0.82
Blank_Spike	Cerium-144	04/28/2012						
2589	Cerium-144	04/29/2012						0.21
Blank_Spike	Cerium-144	04/30/2012						
HickHCrTSD-Eas	Cesium-134	04/28/2012						0.37
2589	Cesium-134	04/29/2012						1.21
HickHCrTSD-Eas	Cesium-137	04/28/2012						1.83
Blank_Spike	Cesium-137	04/28/2012				104.00		
2589	Cesium-137	04/29/2012						0.03
Blank_Spike	Cesium-137	04/30/2012				104.00		
HickHCrTSD-Eas	Cobalt-60	04/28/2012						0.45
Blank_Spike	Cobalt-60	04/28/2012				101.00		
2589	Cobalt-60	04/29/2012						0.02
Blank_Spike	Cobalt-60	04/30/2012				104.00		
HickHCrTSD-Eas	Europium-152	04/28/2012						0.77
2589	Europium-152	04/29/2012						0.23
HickHCrTSD-Eas	Europium-154	04/28/2012						0.31
Blank_Spike	Europium-154	04/28/2012						
2589	Europium-154	04/29/2012						0.14
Blank_Spike	Europium-154	04/30/2012						
HickHCrTSD-Eas	Europium-155	04/28/2012						0.34
2589	Europium-155	04/29/2012						0.69
HickHCrTSD-Eas	Lead-212	04/28/2012						0.80
Blank_Spike	Lead-212	04/28/2012						

**SAMPLE MANAGEMENT SYSTEM**  
**Radiochemistry Data Validation Worksheet**

RIN: 12044463                      Lab Code: GEN                      Date Due: 7/19/2012  
 Matrix: Water                      Site Code: SAL01                      Date Completed: 7/19/2012

Sample	Analyte	Date Analyzed	Result	Flag	Tracer %R	LCS %R	MS %R	Duplicate
2589	Lead-212	04/29/2012						0.11
Blank_Spike	Lead-212	04/30/2012						
HickHCrTSD-Eas	Potassium-40	04/28/2012						0.71
2589	Potassium-40	04/29/2012						0.73
HickHCrTSD-Eas	Promethium-144	04/28/2012						0.83
Blank_Spike	Promethium-144	04/28/2012						
2589	Promethium-144	04/29/2012						1.24
Blank_Spike	Promethium-144	04/30/2012						
HickHCrTSD-Eas	Promethium-146	04/28/2012						0.79
2589	Promethium-146	04/29/2012						0.07
HickHCrTSD-Eas	Ruthenium-106	04/28/2012						1.62
Blank_Spike	Ruthenium-106	04/28/2012						
2589	Ruthenium-106	04/29/2012						0.11
Blank_Spike	Ruthenium-106	04/30/2012						
HickHCrTSD-Eas	Thorium-234	04/28/2012						1.19
2589	Thorium-234	04/29/2012						0.07
HickHCrTSD-Eas	Tritium	05/24/2012						0.42
Blank_Spike	Tritium	05/24/2012				94.70		
HickHCrTSD-Eas	Tritium	05/24/2012					91.4	
Blank	Tritium	05/24/2012	43.0000	U				
Blank_Spike	Tritium	06/09/2012			64.0	116.00		
HMH-16R	Tritium	06/11/2012			64.0			
SA1-5-H	Tritium	06/11/2012			64.0			
SA1-7-H	Tritium	06/11/2012			64.0			
HM-1	Tritium	06/12/2012			64.0			
HM-2A	Tritium	06/12/2012			64.0			
HM-2B	Tritium	06/12/2012			64.0			
HM-3	Tritium	06/13/2012			64.0			
SA1-8-L	Tritium	06/13/2012			64.0			
SA5-4-4	Tritium	06/13/2012			64.0			
SA5-5-4	Tritium	06/13/2012			64.0			
Blank	Tritium	06/13/2012	0.5600	U	64.0			

**SAMPLE MANAGEMENT SYSTEM**  
**Radiochemistry Data Validation Worksheet**

RIN: 12044463                      Lab Code: GEN                      Date Due: 7/19/2012  
 Matrix: Water                      Site Code: SAL01                      Date Completed: 7/19/2012

Sample	Analyte	Date Analyzed	Result	Flag	Tracer %R	LCS %R	MS %R	Duplicate
2589	Tritium	06/16/2012						0.27
Blank_Spike	Tritium	06/16/2012				103.00		
2589	Tritium	06/16/2012					96.7	
Blank	Tritium	06/16/2012	145.0000	U				
RB-D-03	Tritium	06/22/2012						
Blank_Spike	Tritium	06/22/2012				79.40		
RB-D-03	Tritium	06/22/2012					92.7	
Blank	Tritium	06/22/2012	0	U				
HickHCrTSD-Eas	Uranium-235	04/28/2012						2.27
Blank_Spike	Uranium-235	04/28/2012						
2589	Uranium-235	04/29/2012						0.28
Blank_Spike	Uranium-235	04/30/2012						
HickHCrTSD-Eas	Uranium-238	04/28/2012						1.19
2589	Uranium-238	04/29/2012						0.07
HickHCrTSD-Eas	Yttrium-88	04/28/2012						0.45
Blank_Spike	Yttrium-88	04/28/2012						
2589	Yttrium-88	04/29/2012						0.28
Blank_Spike	Yttrium-88	04/30/2012						

## 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 HMH-16R, 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

An equipment blank was not collected because dedicated equipment was used to collect all samples.

### Field Measurements

The daily operational check performed on April 18, 2012, for instrument “1242” did not meet the acceptance criteria for pH. The associated field pH measurements are qualified with a “J” flag as estimated values.

The daily operational check performed on April 18, 2012, for instrument “TurbQ1” did not meet the acceptance criteria for turbidity at the upper operational range, but was acceptable at the lower ranges. The associated field turbidity measurements that are near or above the value of the failed check are qualified with a “J” flag as estimated values.

### Field Duplicate Assessment

Field duplicate samples are 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 SA1-1-H, HMH-5R, SA3-4-H, SA1-2-H, Pond West of GZ, and SA5-4-4. For non-radiochemical measurements, the relative percent difference for duplicate results that are greater than 5 times the PQL should be less than 20 percent. For results less than 5 times the PQL, the range should be no greater than the PQL. For radiochemical measurements, the relative error ratio (the ratio of the absolute difference between the sample and duplicate results and the sum of the 1-sigma uncertainties) is used to evaluate duplicate results and should be less than 3. All duplicate results met these criteria with the following exception. The lead duplicate results for sample SA1-1-H did not meet the acceptance criteria. The associated lead sample results are qualified with a “J” flag as estimated values.

**SAMPLE MANAGEMENT SYSTEM**  
**Validation Report: Field Duplicates**

RIN: 12044462    Lab Code: PAR    Project: Salmon LTS&M    Validation Date: 7/24/2012

Duplicate: 2323

Sample: SA1-1-H

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
1,1,1,2-Tetrachloroethane	0.3	U		1	0.3	U		1			UG/L
1,1,1-Trichloroethane	0.3	U		1	0.3	U		1			UG/L
1,1,2,2-Tetrachloroethane	0.3	U		1	0.3	U		1			UG/L
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3	U		1	0.3	U		1			UG/L
1,1,2-Trichloroethane	0.3	U		1	0.3	U		1			UG/L
1,1-Dichloroethane	0.3	U		1	0.3	U		1			UG/L
1,1-Dichloroethene	0.3	U		1	0.3	U		1			UG/L
1,1-Dichloropropene	0.3	U		1	0.3	U		1			UG/L
1,2,3-Trichlorobenzene	0.49	U		1	0.49	U		1			UG/L
1,2,3-Trichloropropane	0.3	U		1	0.3	U		1			UG/L
1,2,4-Trichlorobenzene	0.36	U		1	0.36	U		1			UG/L
1,2,4-Trimethylbenzene	0.3	U		1	0.3	U		1			UG/L
1,2-Dibromo-3-chloropropane	0.73	U		1	0.73	U		1			UG/L
1,2-Dibromoethane	0.3	U		1	0.3	U		1			UG/L
1,2-Dichlorobenzene	0.3	U		1	0.3	U		1			UG/L
1,2-Dichloroethane	0.3	U		1	0.3	U		1			UG/L
1,2-Dichloropropane	0.3	U		1	0.3	U		1			UG/L
1,3,5-Trimethylbenzene	0.3	U		1	0.3	U		1			UG/L
1,3-Dichlorobenzene	0.3	U		1	0.3	U		1			UG/L
1,3-Dichloropropane	0.3	U		1	0.3	U		1			UG/L
1,4-Dichlorobenzene	0.3	U		1	0.3	U		1			UG/L
1-CHLOROHEXANE	0.3	U		1	0.3	U		1			UG/L
2,2-Dichloropropane	0.3	U		1	0.3	U		1			UG/L
2-Butanone	3	U		1	3	U		1			UG/L
2-Chlorotoluene	0.3	U		1	0.3	U		1			UG/L
2-Hexanone	3	U		1	3	U		1			UG/L
4-Chlorotoluene	0.3	U		1	0.3	U		1			UG/L
4-Isopropyltoluene	0.3	U		1	0.3	U		1			UG/L
4-Methyl-2-pentanone	3	U		1	3	U		1			UG/L
Acetone	6.4	U		1	6.4	U		1			UG/L
Antimony	0.012	U		1	0.012	U		1			UG/L
Arsenic	4.5			1	4.4			1	2.25		UG/L
Barium	320			1	320			1	0		UG/L
Benzene	0.3	U		1	0.3	U		1			UG/L
Beryllium	0.38	B		1	0.18	U		1			UG/L
Bromobenzene	0.3	U		1	0.3	U		1			UG/L
Bromochloromethane	0.3	U		1	0.3	U		1			UG/L
Bromodichloromethane	0.3	U		1	0.3	U		1			UG/L
Bromoform	0.3	U		1	0.3	U		1			UG/L
Bromomethane	0.3	U		1	0.3	U		1			UG/L

**SAMPLE MANAGEMENT SYSTEM**  
**Validation Report: Field Duplicates**

RIN: 12044462    Lab Code: PAR    Project: Salmon LTS&M    Validation Date: 7/24/2012

Duplicate: 2323

Sample: SA1-1-H

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
Cadmium	0.012	U		1	0.012	U		1			UG/L
Carbon Disulfide	0.3	U		1	0.3	U		1			UG/L
Carbon Tetrachloride	0.3	U		1	0.3	U		1			UG/L
Chlorobenzene	0.3	U		1	0.3	U		1			UG/L
Chloroethane	0.3	U		1	0.3	U		1			UG/L
Chloroform	0.2	U		1	0.2	U		1			UG/L
Chloromethane	0.33	U		1	0.33	U		1			UG/L
Chromium	0.51	U		1	0.51	U		1			UG/L
cis-1,2-Dichloroethene	7.2			1	6.7			1	7.19		UG/L
cis-1,3-Dichloropropene	0.3	U		1	0.3	U		1			UG/L
Dibromochloromethane	0.3	U		1	0.3	U		1			UG/L
Dibromomethane	0.3	U		1	0.3	U		1			UG/L
Dichlorodifluoromethane	0.3	U		1	0.3	U		1			UG/L
Ethylbenzene	0.3	U		1	0.3	U		1			UG/L
Hexachlorobutadiene	0.3	U		1	0.3	U		1			UG/L
Iodomethane	0.35	U		1	0.35	U		1			UG/L
Isopropylbenzene	0.3	U		1	0.3	U		1			UG/L
Lead	0.085			1	0.24			1	95.38		UG/L
m,p-Xylene	0.3	U		1	0.3	U		1			UG/L
Mercury	0.0029	U		1	0.0056	B		1			UG/L
Methyl tertiary butyl ether	0.3	U		1	0.3	U		1			UG/L
Methylene Chloride	0.32	U		1	0.32	U		1			UG/L
Naphthalene	0.42	U		1	0.42	U		1			UG/L
n-Butylbenzene	0.3	U		1	0.3	U		1			UG/L
Nickel	0.93	U		1	0.93	U		1			UG/L
n-Propylbenzene	0.3	U		1	0.3	U		1			UG/L
o-Xylene	0.3	U		1	0.3	U		1			UG/L
sec-Butylbenzene	0.3	U		1	0.3	U		1			UG/L
Selenium	0.091	B		1	0.066	B		1			UG/L
Silver	1.1	U		1	1.1	U		1			UG/L
Styrene	0.3	U		1	0.3	U		1			UG/L
tert-Butylbenzene	0.3	U		1	0.3	U		1			UG/L
Tetrachloroethene	0.19	U		1	0.19	U		1			UG/L
Toluene	0.3	U		1	0.3	U		1			UG/L
trans-1,2-Dichloroethene	2.3			1	2.2			1	4.44		UG/L
trans-1,3-Dichloropropene	0.3	U		1	0.3	U		1			UG/L
Trichloroethene	2.2			1	2.1			1	4.65		UG/L
Trichlorofluoromethane	0.3	U		1	0.3	U		1			UG/L
Vinyl Acetate	0.8	U		1	0.8	U		1			UG/L
Vinyl Chloride	0.3	U		1	0.3	U		1			UG/L

**SAMPLE MANAGEMENT SYSTEM**  
**Validation Report: Field Duplicates**

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RIN: 12044462    Lab Code: PAR    Project: Salmon LTS&M    Validation Date: 7/24/2012

Duplicate: 2323

Sample: SA1-1-H

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
Zinc	3.8	B		1	1.3	B		1			UG/L

Duplicate: 2324

Sample: HMH-5R

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
1,1,1,2-Tetrachloroethane	0.3	U		1	0.3	U		1			UG/L
1,1,1-Trichloroethane	0.3	U		1	0.3	U		1			UG/L
1,1,2,2-Tetrachloroethane	0.3	U		1	0.3	U		1			UG/L
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3	U		1	0.3	U		1			UG/L
1,1,2-Trichloroethane	0.3	U		1	0.3	U		1			UG/L
1,1-Dichloroethane	0.3	U		1	0.3	U		1			UG/L
1,1-Dichloroethene	0.3	U		1	0.3	U		1			UG/L
1,1-Dichloropropene	0.3	U		1	0.3	U		1			UG/L
1,2,3-Trichlorobenzene	0.49	U		1	0.49	U		1			UG/L
1,2,3-Trichloropropane	0.3	U		1	0.3	U		1			UG/L
1,2,4-Trichlorobenzene	0.36	U		1	0.36	U		1			UG/L
1,2,4-Trimethylbenzene	0.3	U		1	0.3	U		1			UG/L
1,2-Dibromo-3-chloropropane	0.73	U		1	0.73	U		1			UG/L
1,2-Dibromoethane	0.3	U		1	0.3	U		1			UG/L
1,2-Dichlorobenzene	0.3	U		1	0.3	U		1			UG/L
1,2-Dichloroethane	0.3	U		1	0.3	U		1			UG/L
1,2-Dichloropropane	0.3	U		1	0.3	U		1			UG/L
1,3,5-Trimethylbenzene	0.3	U		1	0.3	U		1			UG/L
1,3-Dichlorobenzene	0.3	U		1	0.3	U		1			UG/L
1,3-Dichloropropane	0.3	U		1	0.3	U		1			UG/L
1,4-Dichlorobenzene	0.3	U		1	0.3	U		1			UG/L
1-CHLOROHEXANE	0.3	U		1	0.3	U		1			UG/L
2,2-Dichloropropane	0.3	U		1	0.3	U		1			UG/L
2-Butanone	3	U		1	3	U		1			UG/L
2-Chlorotoluene	0.3	U		1	0.3	U		1			UG/L
2-Hexanone	3	U		1	3	U		1			UG/L
4-Chlorotoluene	0.3	U		1	0.3	U		1			UG/L
4-Isopropyltoluene	0.3	U		1	0.3	U		1			UG/L
4-Methyl-2-pentanone	3	U		1	3	U		1			UG/L
Acetone	6.4	U		1	6.4	U		1			UG/L
Antimony	0.063			1	0.014	B		1			UG/L
Arsenic	4			1	4			1	0		UG/L
Barium	120			1	130			1	8.00		UG/L
Benzene	0.3	U		1	0.3	U		1			UG/L

**SAMPLE MANAGEMENT SYSTEM**  
**Validation Report: Field Duplicates**

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RIN: 12044462    Lab Code: PAR    Project: Salmon LTS&M    Validation Date: 7/24/2012

Duplicate: 2324

Sample: HMH-5R

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
Beryllium	0.18	U		1	0.18	U		1			UG/L
Bromobenzene	0.3	U		1	0.3	U		1			UG/L
Bromochloromethane	0.3	U		1	0.3	U		1			UG/L
Bromodichloromethane	0.3	U		1	0.3	U		1			UG/L
Bromoform	0.3	U		1	0.3	U		1			UG/L
Bromomethane	0.3	U		1	0.3	U		1			UG/L
Cadmium	0.012	U		1	0.012	U		1			UG/L
Carbon Disulfide	0.3	U		1	0.3	U		1			UG/L
Carbon Tetrachloride	0.3	U		1	0.3	U		1			UG/L
Chlorobenzene	0.3	U		1	0.3	U		1			UG/L
Chloroethane	0.3	U		1	0.3	U		1			UG/L
Chloroform	0.2	U		1	0.2	U		1			UG/L
Chloromethane	0.33	U		1	0.33	U		1			UG/L
Chromium	0.51	U		1	0.51	U		1			UG/L
cis-1,2-Dichloroethene	29			1	29			1	0		UG/L
cis-1,3-Dichloropropene	0.3	U		1	0.3	U		1			UG/L
Dibromochloromethane	0.3	U		1	0.3	U		1			UG/L
Dibromomethane	0.3	U		1	0.3	U		1			UG/L
Dichlorodifluoromethane	0.3	U		1	0.3	U		1			UG/L
Ethylbenzene	0.3	U		1	0.3	U		1			UG/L
Hexachlorobutadiene	0.3	U		1	0.3	U		1			UG/L
Iodomethane	0.35	U		1	0.35	U		1			UG/L
Isopropylbenzene	0.3	U		1	0.3	U		1			UG/L
Lead	0.18			1	0.038	B		1	130.28		UG/L
m,p-Xylene	0.3	U		1	0.3	U		1			UG/L
Mercury	0.0029	U		1	0.0046	B		1			UG/L
Methyl tertiary butyl ether	0.3	U		1	0.3	U		1			UG/L
Methylene Chloride	0.32	U		1	0.32	U		1			UG/L
Naphthalene	0.42	U		1	0.42	U		1			UG/L
n-Butylbenzene	0.3	U		1	0.3	U		1			UG/L
Nickel	0.93	U		1	0.93	U		1			UG/L
n-Propylbenzene	0.3	U		1	0.3	U		1			UG/L
o-Xylene	0.3	U		1	0.3	U		1			UG/L
sec-Butylbenzene	0.3	U		1	0.3	U		1			UG/L
Selenium	0.035	B		1	0.061	B		1			UG/L
Silver	1.1	U		1	1.1	U		1			UG/L
Styrene	0.3	U		1	0.3	U		1			UG/L
tert-Butylbenzene	0.3	U		1	0.3	U		1			UG/L
Tetrachloroethene	0.19	U		1	0.19	U		1			UG/L
Toluene	0.3	U		1	0.3	U		1			UG/L

**SAMPLE MANAGEMENT SYSTEM**  
**Validation Report: Field Duplicates**

RIN: 12044462    Lab Code: PAR    Project: Salmon LTS&M    Validation Date: 7/24/2012

Duplicate: 2324

Sample: HMH-5R

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
trans-1,2-Dichloroethene	3.4			1	3.5			1	2.90		UG/L
trans-1,3-Dichloropropene	0.3	U		1	0.3	U		1			UG/L
Trichloroethene	51			1	52			1	1.94		UG/L
Trichlorofluoromethane	0.3	U		1	0.3	U		1			UG/L
Vinyl Acetate	0.8	U		1	0.8	U		1			UG/L
Vinyl Chloride	0.3	U		1	0.3	U		1			UG/L
Zinc	2.8	B		1	0.72	U		1			UG/L

Duplicate: 2325

Sample: SA3-4-H

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
1,1,1,2-Tetrachloroethane	0.3	U		1	0.3	U		1			UG/L
1,1,1-Trichloroethane	0.3	U		1	0.3	U		1			UG/L
1,1,2,2-Tetrachloroethane	0.3	U		1	0.3	U		1			UG/L
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3	U		1	0.3	U		1			UG/L
1,1,2-Trichloroethane	0.3	U		1	0.3	U		1			UG/L
1,1-Dichloroethane	0.3	U		1	0.3	U		1			UG/L
1,1-Dichloroethene	0.3	U		1	0.3	U		1			UG/L
1,1-Dichloropropene	0.3	U		1	0.3	U		1			UG/L
1,2,3-Trichlorobenzene	0.49	U		1	0.49	U		1			UG/L
1,2,3-Trichloropropane	0.3	U		1	0.3	U		1			UG/L
1,2,4-Trichlorobenzene	0.36	U		1	0.36	U		1			UG/L
1,2,4-Trimethylbenzene	0.3	U		1	0.3	U		1			UG/L
1,2-Dibromo-3-chloropropane	0.73	U		1	0.73	U		1			UG/L
1,2-Dibromoethane	0.3	U		1	0.3	U		1			UG/L
1,2-Dichlorobenzene	0.3	U		1	0.3	U		1			UG/L
1,2-Dichloroethane	0.3	U		1	0.3	U		1			UG/L
1,2-Dichloropropane	0.3	U		1	0.3	U		1			UG/L
1,3,5-Trimethylbenzene	0.3	U		1	0.3	U		1			UG/L
1,3-Dichlorobenzene	0.3	U		1	0.3	U		1			UG/L
1,3-Dichloropropane	0.3	U		1	0.3	U		1			UG/L
1,4-Dichlorobenzene	0.3	U		1	0.3	U		1			UG/L
1-CHLOROHEXANE	0.3	U		1	0.3	U		1			UG/L
2,2-Dichloropropane	0.3	U		1	0.3	U		1			UG/L
2-Butanone	3	U		1	3	U		1			UG/L
2-Chlorotoluene	0.3	U		1	0.3	U		1			UG/L
2-Hexanone	3	U		1	3	U		1			UG/L
4-Chlorotoluene	0.3	U		1	0.3	U		1			UG/L
4-Isopropyltoluene	0.3	U		1	0.3	U		1			UG/L

**SAMPLE MANAGEMENT SYSTEM**  
**Validation Report: Field Duplicates**

RIN: 12044462    Lab Code: PAR    Project: Salmon LTS&M    Validation Date: 7/24/2012

Duplicate: 2325

Sample: SA3-4-H

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
4-Methyl-2-pentanone	3	U		1	3	U		1			UG/L
Acetone	6.4	U		1	6.4	U		1			UG/L
Antimony	0.012	U		1	0.012	U		1			UG/L
Arsenic	0.075	B		1	0.093	B		1			UG/L
Barium	270			1	270			1	0		UG/L
Benzene	0.3	U		1	0.3	U		1			UG/L
Beryllium	0.18	U		1	0.18	U		1			UG/L
Bromobenzene	0.3	U		1	0.3	U		1			UG/L
Bromochloromethane	0.3	U		1	0.3	U		1			UG/L
Bromodichloromethane	0.3	U		1	0.3	U		1			UG/L
Bromoform	0.3	U		1	0.3	U		1			UG/L
Bromomethane	0.3	U		1	0.3	U		1			UG/L
Cadmium	0.024	B		1	0.033			1			UG/L
Carbon Disulfide	0.3	U		1	0.3	U		1			UG/L
Carbon Tetrachloride	0.3	U		1	0.3	U		1			UG/L
Chlorobenzene	0.3	U		1	0.3	U		1			UG/L
Chloroethane	0.3	U		1	0.3	U		1			UG/L
Chloroform	0.2	U		1	0.2	U		1			UG/L
Chloromethane	0.33	U		1	0.33	U		1			UG/L
Chromium	0.51	U		1	0.51	U		1			UG/L
cis-1,2-Dichloroethene	0.3	U		1	0.3	U		1			UG/L
cis-1,3-Dichloropropene	0.3	U		1	0.3	U		1			UG/L
Dibromochloromethane	0.3	U		1	0.3	U		1			UG/L
Dibromomethane	0.3	U		1	0.3	U		1			UG/L
Dichlorodifluoromethane	0.3	U		1	0.3	U		1			UG/L
Ethylbenzene	0.3	U		1	0.3	U		1			UG/L
Hexachlorobutadiene	0.3	U		1	0.3	U		1			UG/L
Iodomethane	0.35	U		1	0.35	U		1			UG/L
Isopropylbenzene	0.3	U		1	0.3	U		1			UG/L
Lead	0.0068	U		1	0.024	B		1			UG/L
m,p-Xylene	0.3	U		1	0.3	U		1			UG/L
Mercury	0.0039	B		1	0.0029	U		1			UG/L
Methyl tertiary butyl ether	0.3	U		1	0.3	U		1			UG/L
Methylene Chloride	0.32	U		1	0.32	U		1			UG/L
Naphthalene	0.42	U		1	0.42	U		1			UG/L
n-Butylbenzene	0.3	U		1	0.3	U		1			UG/L
Nickel	0.93	U		1	0.93	U		1			UG/L
n-Propylbenzene	0.3	U		1	0.3	U		1			UG/L
o-Xylene	0.3	U		1	0.3	U		1			UG/L
sec-Butylbenzene	0.3	U		1	0.3	U		1			UG/L

**SAMPLE MANAGEMENT SYSTEM**  
**Validation Report: Field Duplicates**

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RIN: 12044462    Lab Code: PAR    Project: Salmon LTS&M    Validation Date: 7/24/2012

Duplicate: 2325

Sample: SA3-4-H

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
Selenium	0.053	B		1	0.032	U		1			UG/L
Silver	1.1	U		1	1.1	U		1			UG/L
Styrene	0.3	U		1	0.3	U		1			UG/L
tert-Butylbenzene	0.3	U		1	0.3	U		1			UG/L
Tetrachloroethene	0.19	U		1	0.19	U		1			UG/L
Toluene	0.3	U		1	0.3	U		1			UG/L
trans-1,2-Dichloroethene	0.3	U		1	0.3	U		1			UG/L
trans-1,3-Dichloropropene	0.3	U		1	0.3	U		1			UG/L
Trichloroethene	0.3	U		1	0.3	U		1			UG/L
Trichlorofluoromethane	0.3	U		1	0.3	U		1			UG/L
Vinyl Acetate	0.8	U		1	0.8	U		1			UG/L
Vinyl Chloride	0.3	U		1	0.3	U		1			UG/L
Zinc	0.72	U		1	0.72	U		1			UG/L

Duplicate: 2326

Sample: SA1-2-H

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
1,1,1,2-Tetrachloroethane	0.3	U		1	0.3	U		1			UG/L
1,1,1-Trichloroethane	0.3	U		1	0.3	U		1			UG/L
1,1,2,2-Tetrachloroethane	0.3	U		1	0.3	U		1			UG/L
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3	U		1	0.3	U		1			UG/L
1,1,2-Trichloroethane	0.3	U		1	0.3	U		1			UG/L
1,1-Dichloroethane	0.3	U		1	0.3	U		1			UG/L
1,1-Dichloroethene	0.3	U		1	0.3	U		1			UG/L
1,1-Dichloropropene	0.3	U		1	0.3	U		1			UG/L
1,2,3-Trichlorobenzene	0.49	U		1	0.49	U		1			UG/L
1,2,3-Trichloropropane	0.3	U		1	0.3	U		1			UG/L
1,2,4-Trichlorobenzene	0.36	U		1	0.36	U		1			UG/L
1,2,4-Trimethylbenzene	0.3	U		1	0.3	U		1			UG/L
1,2-Dibromo-3-chloropropane	0.73	U		1	0.73	U		1			UG/L
1,2-Dibromoethane	0.3	U		1	0.3	U		1			UG/L
1,2-Dichlorobenzene	0.3	U		1	0.3	U		1			UG/L
1,2-Dichloroethane	0.3	U		1	0.3	U		1			UG/L
1,2-Dichloropropane	0.3	U		1	0.3	U		1			UG/L
1,3,5-Trimethylbenzene	0.3	U		1	0.3	U		1			UG/L
1,3-Dichlorobenzene	0.3	U		1	0.3	U		1			UG/L
1,3-Dichloropropane	0.3	U		1	0.3	U		1			UG/L
1,4-Dichlorobenzene	0.3	U		1	0.3	U		1			UG/L
1-CHLOROHEXANE	0.3	U		1	0.3	U		1			UG/L

**SAMPLE MANAGEMENT SYSTEM**  
**Validation Report: Field Duplicates**

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RIN: 12044462    Lab Code: PAR    Project: Salmon LTS&M    Validation Date: 7/24/2012

Duplicate: 2326

Sample: SA1-2-H

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
2,2-Dichloropropane	0.3	U		1	0.3	U		1			UG/L
2-Butanone	3	U		1	3	U		1			UG/L
2-Chlorotoluene	0.3	U		1	0.3	U		1			UG/L
2-Hexanone	3	U		1	3	U		1			UG/L
4-Chlorotoluene	0.3	U		1	0.3	U		1			UG/L
4-Isopropyltoluene	0.3	U		1	0.3	U		1			UG/L
4-Methyl-2-pentanone	3	U		1	3	U		1			UG/L
Acetone	6.4	U		1	6.4	U		1			UG/L
Benzene	0.31	J		1	0.3	U		1			UG/L
Bromobenzene	0.3	U		1	0.3	U		1			UG/L
Bromochloromethane	0.3	U		1	0.3	U		1			UG/L
Bromodichloromethane	0.3	U		1	0.3	U		1			UG/L
Bromoform	0.3	U		1	0.3	U		1			UG/L
Bromomethane	0.3	U		1	0.3	U		1			UG/L
Carbon Disulfide	0.3	U		1	0.3	U		1			UG/L
Carbon Tetrachloride	0.3	U		1	0.3	U		1			UG/L
Chlorobenzene	0.3	U		1	0.3	U		1			UG/L
Chloroethane	0.3	U		1	0.3	U		1			UG/L
Chloroform	0.2	U		1	0.2	U		1			UG/L
Chloromethane	0.33	U		1	0.33	U		1			UG/L
cis-1,2-Dichloroethene	6.9			1	6.7			1	2.94		UG/L
cis-1,3-Dichloropropene	0.3	U		1	0.3	U		1			UG/L
Dibromochloromethane	0.3	U		1	0.3	U		1			UG/L
Dibromomethane	0.3	U		1	0.3	U		1			UG/L
Dichlorodifluoromethane	0.3	U		1	0.3	U		1			UG/L
Ethylbenzene	0.3	U		1	0.3	U		1			UG/L
Hexachlorobutadiene	0.3	U		1	0.3	U		1			UG/L
Iodomethane	0.35	U		1	0.35	U		1			UG/L
Isopropylbenzene	0.3	U		1	0.3	U		1			UG/L
m,p-Xylene	0.3	U		1	0.3	U		1			UG/L
Methyl tertiary butyl ether	0.3	U		1	0.3	U		1			UG/L
Methylene Chloride	0.32	U		1	0.32	U		1			UG/L
Naphthalene	0.42	U		1	0.42	U		1			UG/L
n-Butylbenzene	0.3	U		1	0.3	U		1			UG/L
n-Propylbenzene	0.3	U		1	0.3	U		1			UG/L
o-Xylene	0.3	U		1	0.3	U		1			UG/L
sec-Butylbenzene	0.3	U		1	0.3	U		1			UG/L
Styrene	0.3	U		1	0.3	U		1			UG/L
tert-Butylbenzene	0.3	U		1	0.3	U		1			UG/L
Tetrachloroethene	0.23	J		1	0.21	J		1			UG/L

**SAMPLE MANAGEMENT SYSTEM**  
**Validation Report: Field Duplicates**

RIN: 12044462    Lab Code: PAR    Project: Salmon LTS&M    Validation Date: 7/24/2012

Duplicate: 2326

Sample: SA1-2-H

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
Toluene	0.3	U		1	0.3	U		1			UG/L
trans-1,2-Dichloroethene	2			1	1.8			1	10.53		UG/L
trans-1,3-Dichloropropene	0.3	U		1	0.3	U		1			UG/L
Trichloroethene	1.5			1	1.3			1			UG/L
Trichlorofluoromethane	0.3	U		1	0.3	U		1			UG/L
Vinyl Acetate	0.8	U		1	0.8	U		1			UG/L
Vinyl Chloride	0.3	U		1	0.3	U		1			UG/L

**SAMPLE MANAGEMENT SYSTEM**  
**Validation Report: Field Duplicates**

RIN: 12044463    Lab Code: GEN    Project: Salmon LTS&M    Validation Date: 7/24/2012

Duplicate: 2589

Sample: Pond West of GZ

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
Actinium-228	-7.57	U	12.6	1.00	2.26	U	9.04	1.00		1.2	pCi/L
Americium-241	7.25	U	16.1	1.00	-5.39	U	17.1	1.00		1.1	pCi/L
Antimony-125	-3.05	U	5.89	1.00	0.265	U	5.21	1.00		0.8	pCi/L
Cerium-144	8.48	U	15.6	1.00	1.93	U	13.7	1.00		0.6	pCi/L
Cesium-134	0.290	U	1.95	1.00	-1.38	U	2.37	1.00		1.1	pCi/L
Cesium-137	-0.468	U	2.28	1.00	-1.09	U	2.10	1.00		0.4	pCi/L
Cobalt-60	-0.233	U	2.37	1.00	-0.258	U	2.02	1.00		0	pCi/L
Europium-152	3.51	U	6.59	1.00	0.901	U	6.11	1.00		0.6	pCi/L
Europium-154	-0.507	U	6.48	1.00	0.917	U	5.94	1.00		0.3	pCi/L
Europium-155	-1.1	U	7.71	1.00	-3.68	U	8.15	1.00		0.5	pCi/L
Lead-212	5.03	U	7.61	1.00	0.913	U	5.48	1.00		0.9	pCi/L
Potassium-40	-33.3	U	35.1	1.00	-21.3	U	33.5	1.00		0.5	pCi/L
Promethium-144	0.751	U	1.94	1.00	-0.0663	U	2.11	1.00		0.6	pCi/L
Promethium-146	-1.73	U	2.98	1.00	-1.39	U	2.60	1.00		0.2	pCi/L
Ruthenium-106	-8.81	U	21.4	1.00	-5.8	U	17.8	1.00		0.2	pCi/L
Thorium-234	172	U	190	1.00	44.0	U	219	1.00		0.9	pCi/L
Tritium	-119	U	193	1.00	-93.7	U	197	1.00		0.2	pCi/L
Uranium-235	10.4	U	18.7	1.00	8.11	U	21.9	1.00		0.2	pCi/L
Uranium-238	172	U	190	1.00	44.0	U	219	1.00		0.9	pCi/L
Yttrium-88	0.404	U	2.29	1.00	0.0372	U	1.85	1.00		0.2	pCi/L

Duplicate: 2590

Sample: SA5-4-4

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
Actinium-228	4.02	U	6.84	1.00	-3.41	U	8.90	1.00		1.3	pCi/L
Americium-241	1.42	U	7.96	1.00	-2.42	U	8.30	1.00		0.7	pCi/L
Antimony-125	2.24	U	4.51	1.00	1.40	U	4.71	1.00		0.3	pCi/L
Cerium-144	4.02	U	12.1	1.00	-4.62	U	12.5	1.00		1.0	pCi/L
Cesium-134	-1.15	U	1.91	1.00	0.345	U	1.98	1.00		1.1	pCi/L
Cesium-137	0.208	U	1.65	1.00	-0.613	U	1.92	1.00		0.6	pCi/L
Cobalt-60	1.40	U	1.88	1.00	0.407	U	1.88	1.00		0.7	pCi/L
Europium-152	1.51	U	5.31	1.00	6.39	U	6.05	1.00		1.2	pCi/L
Europium-154	-2.7	U	4.61	1.00	0.404	U	5.04	1.00		0.9	pCi/L
Europium-155	1.44	U	5.82	1.00	-0.356	U	6.39	1.00		0.4	pCi/L
Lead-212	0.733	U	4.00	1.00	2.51	U	6.07	1.00		0.5	pCi/L
Potassium-40	-25.6	U	24.6	1.00	0.759	U	27.1	1.00		1.4	pCi/L
Promethium-144	1.19	U	1.66	1.00	0.942	U	1.80	1.00		0.2	pCi/L
Promethium-146	-1.15	U	2.07	1.00	0.0384	U	2.29	1.00		0.8	pCi/L
Ruthenium-106	7.66	U	15.1	1.00	-9.6	U	17.9	1.00		1.4	pCi/L

**SAMPLE MANAGEMENT SYSTEM**  
**Validation Report: Field Duplicates**

Page 2 of 2

RIN: 12044463    Lab Code: GEN    Project: Salmon LTS&M    Validation Date: 7/24/2012

Duplicate: 2590

Sample: SA5-4-4

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
Thorium-234	32.6	U	90.8	1.00	38.3	U	97.9	1.00		0.1	pCi/L
Tritium	-192	U	192	1.00	108	U	209	1.00		2.1	pCi/L
Uranium-235	0.290	U	13.9	1.00	10.3	U	16.0	1.00		0.9	pCi/L
Uranium-238	32.6	U	90.8	1.00	38.3	U	97.9	1.00		0.1	pCi/L
Yttrium-88	0.395	U	1.70	1.00	-0.285	U	2.20	1.00		0.5	pCi/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:

Stephen Donovan  
Stephen Donovan

10-23-2012  
Date

Data Validation Lead:

Stephen Donovan  
Stephen Donovan

10-23-2012  
Date

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**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.

The *cis*-1,2-dichloroethene result from location HM-S was identified as a potential outlier. The *cis*-1,2-dichloroethene, *trans*-1,2-dichloroethene, and trichloroethene concentrations at this location have been trending upward since 2010. Because of the trends in analyte concentrations, these data are not anomalous and the data for this sampling event are acceptable as qualified.

**Data Validation Outliers Report - No Field Parameters**

**Comparison: All Historical Data**

Laboratory: ALS Laboratory Group

RIN: 12044462

Report Date: 10/3/2012

Site Code	Location Code	Sample ID	Sample Date	Analyte	Current			Historical Maximum			Historical Minimum			Number of Data Points		Statistical Outlier
					Result	Qualifiers Lab	Data	Result	Qualifiers Lab	Data	Result	Qualifiers Lab	Data	N	N Below Detect	
SAL01	HALFMO ONCRKO VERFLO W	0001	04/18/2012	Mercury	0.0000029	U		0.000024	B		0.0000074	B		6	1	No
SAL01	HickHCrT SD-East	N001	04/18/2012	Arsenic	0.00019			0.00016			0.000061	B		5	1	No
SAL01	HickHCrT SD-East	N001	04/18/2012	Zinc	0.0011	B	J	0.015	B	U	0.0013	B	J	5	2	No
SAL01	HM-3	N001	04/16/2012	Barium	0.15		F	0.37			0.17		F	14	0	No
SAL01	HM-3	N001	04/16/2012	Selenium	0.000032	U	F	0.005	U		0.000047	B	F	13	8	No
SAL01	HM-3	N001	04/16/2012	Zinc	0.0016	B	JF	0.0401			0.0031	B	F	9	4	No
SAL01	HMH-16R	N001	04/18/2012	Cadmium	0.00002	B	FQ	0.005	U		0.000021	B	FQ	9	5	No
SAL01	HMH-16R	N001	04/18/2012	Lead	0.000012	B	FQ	0.003	U		0.000018	B	FQJ	9	8	No
SAL01	HMH-16R	N001	04/18/2012	Selenium	0.000032	U	FQ	0.005	U		0.000037	B	F	9	5	No
SAL01	HMH-5R	0001	04/18/2012	Barium	0.12		F	0.75			0.19		F	12	0	No
SAL01	HMH-5R	N001	04/18/2012	cis-1,2-Dichloroethene	29		F	150	E		46		F	14	0	No
SAL01	HMH-5R	0001	04/18/2012	Selenium	0.000035	B	F	0.005	U		0.000047	B	FQ	12	7	No
SAL01	HMH-5R	N001	04/18/2012	Trichloroethene	51		F	410	E		91		F	14	0	No
SAL01	HM-S	0001	04/17/2012	Cadmium	0.000012	U	F	0.005	U		0.000022	B	F	14	9	No
SAL01	HM-S	N001	04/17/2012	cis-1,2-Dichloroethene	8.7		F	7			3.3		F	13	0	Yes
SAL01	Pond West of GZ	N001	04/18/2012	Nickel	0.00093	U		0.02	U		0.0011	B	J	6	3	No
SAL01	Reeco Pit (A)	N001	04/17/2012	Chromium	0.00073	B		0.0046	B		0.00083	B		5	2	No

**Data Validation Outliers Report - No Field Parameters**

**Comparison: All Historical Data**

Laboratory: ALS Laboratory Group

RIN: 12044462

Report Date: 10/3/2012

Site Code	Location Code	Sample ID	Sample Date	Analyte	Current			Historical Maximum			Historical Minimum			Number of Data Points		Statistical Outlier
					Result	Qualifiers Lab Data		Result	Qualifiers Lab Data		Result	Qualifiers Lab Data		N	N Below Detect	
SAL01	SA1-12-H	N001	04/18/2012	Lead	0.000021	B UF		0.003	U		0.000029	B FJ		10	9	No
SAL01	SA1-1-H	N001	04/16/2012	Mercury	0.0000029	U F		0.0002	U		0.0000042	B		14	10	No
SAL01	SA1-2-H	0001	04/16/2012	Arsenic	0.0016		F	0.0186			0.0026	B		15	3	No
SAL01	SA1-2-H	N001	04/16/2012	cis-1,2-Dichloroethene	6.9		F	75			8.4			12	0	No
SAL01	SA1-2-H	0001	04/16/2012	Mercury	0.0000029	U F		0.0002	U		0.0000067	B		14	10	No
SAL01	SA1-2-H	N001	04/16/2012	Vinyl chloride	0.3	U F		11			0.66	J F		14	4	No
SAL01	SA1-3-H	0001	04/18/2012	Mercury	0.0000029	U F		0.0002	U		0.0000058	B		15	11	No
SAL01	SA1-5-H	N001	04/16/2012	Mercury	0.0000029	U F		0.0002	U		0.0000042	B		14	10	No
SAL01	SA1-5-H	N001	04/16/2012	Zinc	0.0018	B JF		0.053			0.0022	B JF		10	2	No
SAL01	SA1-6-H	0001	04/18/2012	Cadmium	0.000012	U F		0.005	U		0.000016	B F		13	9	No
SAL01	SA1-6-H	0001	04/18/2012	Selenium	0.000032	U F		0.005	U		0.000042	B F		13	8	No
SAL01	SA1-6-H	0001	04/18/2012	Zinc	0.00072	U F		0.0479			0.0014	B F		10	3	No
SAL01	SA1-7-H	N001	04/18/2012	Beryllium	0.00018	U F		0.005	U		0.0002	B		10	7	No
SAL01	SA1-7-H	N001	04/18/2012	cis-1,2-Dichloroethene	0.59	J F		5	U		0.78	J F		11	7	No
SAL01	SA1-7-H	N001	04/18/2012	Nickel	0.00093	U F		0.02	U F		0.0018	B F		10	5	No
SAL01	SA1-8-L	N001	04/17/2012	Arsenic	0.0032		F	0.0086	B		0.0037	F		10	0	No
SAL01	SA2-1-L	N001	04/18/2012	Arsenic	0.0088		F	0.017			0.0092	F		14	0	No
SAL01	SA2-1-L	N001	04/18/2012	Lead	0.000061		F	0.003	U		0.000077	F		13	10	No

**Data Validation Outliers Report - No Field Parameters**

**Comparison: All Historical Data**

Laboratory: ALS Laboratory Group

RIN: 12044462

Report Date: 10/3/2012

Site Code	Location Code	Sample ID	Sample Date	Analyte	Current			Historical Maximum			Historical Minimum			Number of Data Points		Statistical Outlier
					Result	Qualifiers Lab Data		Result	Qualifiers Lab Data		Result	Qualifiers Lab Data		N	N Below Detect	
SAL01	SA2-1-L	N001	04/18/2012	Zinc	0.00072	U	F	0.032			0.001	B	FJ	11	4	No
SAL01	SA2-2-L	N001	04/17/2012	Antimony	0.00027		FQ	0.0461	U		0.00045		FQ	11	7	No
SAL01	SA2-2-L	N001	04/17/2012	Arsenic	0.00037		FQ	0.0442			0.00041		FQ	13	0	No
SAL01	SA2-4-L	N001	04/17/2012	Antimony	0.00005		F	0.0461	U		0.00006		F	9	5	No
SAL01	SA3-4-H	N001	04/18/2012	Arsenic	0.000075	B	JF	0.01	U		0.000081	B	UF	15	9	No
SAL01	SA3-4-H	N002	04/18/2012	Cadmium	0.000033		F	0.005	U		0.000037		F	14	10	No
SAL01	SA3-4-H	N001	04/18/2012	Cadmium	0.000024	B	F	0.005	U		0.000037		F	14	10	No
SAL01	SA3-4-H	N001	04/18/2012	Zinc	0.00072	U	F	0.028	U		0.0018	B	FJ	11	2	No
SAL01	SA4-5-L	N001	04/16/2012	Antimony	0.00018		FQ	0.02	U		0.00023		FQ	8	3	No
SAL01	SA4-5-L	N001	04/16/2012	Chromium	0.049		FQ	0.048		FQ	0.0015	B		11	2	No

**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.

# **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: 10/3/2012

Location: E-7 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
1,1,2-Trichloroethane	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	04/16/2012	N001	934 - 934	0.49	U	F	#	0.49	
1,2,3-Trichloropropane	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	04/16/2012	N001	934 - 934	0.36	U	F	#	0.36	
1,2,4-Trimethylbenzene	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	04/16/2012	N001	934 - 934	0.73	U	F	#	0.73	
1,2-Dibromoethane	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: E-7 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,3-Dichloropropane	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
1-Chlorohexane	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
2-Butanone	ug/L	04/16/2012	N001	934 - 934	3	U	F	#	3	
2-Chlorotoluene	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
2-Hexanone	ug/L	04/16/2012	N001	934 - 934	3	U	F	#	3	
4-Chlorotoluene	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	04/16/2012	N001	934 - 934	3	U	F	#	3	
Acetone	ug/L	04/16/2012	N001	934 - 934	6.4	U	F	#	6.4	
Actinium-228	pCi/L	04/16/2012	N002	934 - 934	3.47	U	F	#	14.8	8.47
Americium-241	pCi/L	04/16/2012	N002	934 - 934	-512	U	F	#	14.5	9.17
Antimony-125	pCi/L	04/16/2012	N002	934 - 934	2.12	U	F	#	8.71	4.81
Benzene	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
Bromobenzene	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
Bromoform	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	
Bromomethane	ug/L	04/16/2012	N001	934 - 934	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: E-7 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Carbon Disulfide	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
Carbon tetrachloride	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
Cerium-144	pCi/L	04/16/2012	N002	934	- 934	6.83	U	F	#	21.2	12.5
Cesium-134	pCi/L	04/16/2012	N002	934	- 934	0.904	U	F	#	3.23	1.67
Cesium-137	pCi/L	04/16/2012	N002	934	- 934	0.198	U	F	#	3	1.66
Chlorobenzene	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
Chloroethane	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
Chloroform	ug/L	04/16/2012	N001	934	- 934	0.2	U	F	#	0.2	
Chloromethane	ug/L	04/16/2012	N001	934	- 934	0.33	U	F	#	0.33	
cis-1,2-Dichloroethene	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
cis-1,3-Dichloropropene	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
Cobalt-60	pCi/L	04/16/2012	N002	934	- 934	0.215	U	F	#	2.94	1.54
Dibromomethane	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
Dissolved Oxygen	mg/L	04/16/2012	N002	934	- 934	0.12		F	#		
Ethylbenzene	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
Europium-152	pCi/L	04/16/2012	N002	934	- 934	-0.976	U	F	#	8.99	5.08
Europium-154	pCi/L	04/16/2012	N002	934	- 934	-0.906	U	F	#	8.32	4.61

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: E-7 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Europium-155	pCi/L	04/16/2012	N002	934	- 934	0.563	U	F	#	10.6	6.1
Hexachlorobutadiene	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
Iodomethane	ug/L	04/16/2012	N001	934	- 934	0.35	U	F	#	0.35	
Isopropylbenzene	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
Lead-212	pCi/L	04/16/2012	N002	934	- 934	0.729	U	F	#	6.14	4.47
m,p-Xylene	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
Methylene chloride	ug/L	04/16/2012	N001	934	- 934	0.32	U	F	#	0.32	
n-Butylbenzene	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
n-Propylbenzene	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
Naphthalene	ug/L	04/16/2012	N001	934	- 934	0.42	U	F	#	0.42	
o-Xylene	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
Oxidation Reduction Potential	mV	04/16/2012	N002	934	- 934	-347.8		F	#		
p-Isopropyltoluene	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
pH	s.u.	04/16/2012	N002	934	- 934	7.54		F	#		
Potassium-40	pCi/L	04/16/2012	N002	934	- 934	5.67	U	F	#	22.2	30.7
Promethium-144	pCi/L	04/16/2012	N002	934	- 934	0.0682	U	F	#	3.06	1.64
Promethium-146	pCi/L	04/16/2012	N002	934	- 934	-1.66	U	F	#	3.41	2.18
Propane, 2-methoxy-2-methyl-	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
Ruthenium-106	pCi/L	04/16/2012	N002	934	- 934	0.792	U	F	#	27	15.1

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: E-7 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
sec-Butylbenzene	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
Specific Conductance	umhos /cm	04/16/2012	N002	934	- 934	2307		F	#		
Styrene	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
Temperature	C	04/16/2012	N002	934	- 934	21.24		F	#		
tert-Butylbenzene	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	04/16/2012	N001	934	- 934	0.19	U	F	#	0.19	
Thorium-234	pCi/L	04/16/2012	N002	934	- 934	0	UI	F	#	125	166
Toluene	ug/L	04/16/2012	N001	934	- 934	0.49	J	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
trans-1,3-dichloropropene	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
Trichloroethene	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
Trichlorofluoromethane	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
Tritium	pCi/L	04/16/2012	N002	934	- 934	22.1	U	F	#	362	209
Turbidity	NTU	04/16/2012	N002	934	- 934	5.13		F	#		
Uranium-235	pCi/L	04/16/2012	N002	934	- 934	-9.06	U	F	#	20	14.2
Uranium-238	pCi/L	04/16/2012	N002	934	- 934	0	UI	F	#	125	166
Vinyl Acetate	ug/L	04/16/2012	N001	934	- 934	0.8	U	F	#	0.8	
Vinyl chloride	ug/L	04/16/2012	N001	934	- 934	0.3	U	F	#	0.3	
Yttrium-88	pCi/L	04/16/2012	N002	934	- 934	1.61	U	F	#	4.19	2.08

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HM-1 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Actinium-228	pCi/L	04/17/2012	N001	330	- 415	11.3	U	F	#	14.9	10.3
Americium-241	pCi/L	04/17/2012	N001	330	- 415	-1.53	U	F	#	12.9	7.38
Antimony-125	pCi/L	04/17/2012	N001	330	- 415	2.23	U	F	#	9.3	5.2
Cerium-144	pCi/L	04/17/2012	N001	330	- 415	-8.24	U	F	#	19.7	12.6
Cesium-134	pCi/L	04/17/2012	N001	330	- 415	-0.998	U	F	#	3.66	2.02
Cesium-137	pCi/L	04/17/2012	N001	330	- 415	1.04	U	F	#	4.39	2.62
Cobalt-60	pCi/L	04/17/2012	N001	330	- 415	1.19	U	F	#	4.28	2.22
Enriched Tritium	pCi/L	04/17/2012	N001	330	- 415	5.83		FJ	#	2.04	2.17
Europium-152	pCi/L	04/17/2012	N001	330	- 415	1.21	U	F	#	9.41	5.23
Europium-154	pCi/L	04/17/2012	N001	330	- 415	-4.14	U	F	#	8.38	5.38
Europium-155	pCi/L	04/17/2012	N001	330	- 415	1.16	U	F	#	10.8	6.18
Lead-212	pCi/L	04/17/2012	N001	330	- 415	0.613	U	F	#	7.37	5.87
pH	s.u.	04/17/2012	N001	330	- 415	8.77		F	#		
Potassium-40	pCi/L	04/17/2012	N001	330	- 415	-14.2	U	F	#	45.9	28.4
Promethium-144	pCi/L	04/17/2012	N001	330	- 415	-1.01	U	F	#	3.01	1.81
Promethium-146	pCi/L	04/17/2012	N001	330	- 415	1.66	U	F	#	4.4	2.49
Ruthenium-106	pCi/L	04/17/2012	N001	330	- 415	2.02	U	F	#	29.8	16
Specific Conductance	umhos/cm	04/17/2012	N001	330	- 415	215		F	#		
Temperature	C	04/17/2012	N001	330	- 415	21.33		F	#		

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**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HM-1 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Thorium-234	pCi/L	04/17/2012	N001	330	- 415	-43.1	U	F	#	132	85.9
Tritium	pCi/L	04/17/2012	N001	330	- 415	-79.5	U	F	#	360	203
Turbidity	NTU	04/17/2012	N001	330	- 415	2.54		F	#		
Uranium-235	pCi/L	04/17/2012	N001	330	- 415	6.45	U	F	#	21.5	14.9
Uranium-238	pCi/L	04/17/2012	N001	330	- 415	-43.1	U	F	#	132	85.9
Yttrium-88	pCi/L	04/17/2012	N001	330	- 415	0.915	U	F	#	4.5	2.22

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**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HM-2A WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Actinium-228	pCi/L	04/16/2012	N001	440	- 537	-1.91	U	F	#	16.4	10.6
Americium-241	pCi/L	04/16/2012	N001	440	- 537	-2.33	U	F	#	28.4	18.2
Antimony-125	pCi/L	04/16/2012	N001	440	- 537	-631	U	F	#	9.94	5.74
Cerium-144	pCi/L	04/16/2012	N001	440	- 537	10.4	U	F	#	26.2	15.7
Cesium-134	pCi/L	04/16/2012	N001	440	- 537	-404	U	F	#	3.98	2.25
Cesium-137	pCi/L	04/16/2012	N001	440	- 537	2.08	U	F	#	4.09	2.24
Cobalt-60	pCi/L	04/16/2012	N001	440	- 537	-454	U	F	#	4.39	2.44
Enriched Tritium	pCi/L	04/16/2012	N001	440	- 537	1.07	U	F	#	2.39	1.44
Europium-152	pCi/L	04/16/2012	N001	440	- 537	-5.43	U	F	#	10.6	6.89
Europium-154	pCi/L	04/16/2012	N001	440	- 537	-2.65	U	F	#	11.8	6.8
Europium-155	pCi/L	04/16/2012	N001	440	- 537	-6.34	U	F	#	14.1	9.08
Lead-212	pCi/L	04/16/2012	N001	440	- 537	-4.05	U	F	#	10	6.15
pH	s.u.	04/16/2012	N001	440	- 537	7.21		F	#		
Potassium-40	pCi/L	04/16/2012	N001	440	- 537	-7.64	U	F	#	54	30.2
Promethium-144	pCi/L	04/16/2012	N001	440	- 537	0.857	U	F	#	3.76	2.03
Promethium-146	pCi/L	04/16/2012	N001	440	- 537	-1.13	U	F	#	4.78	2.74
Ruthenium-106	pCi/L	04/16/2012	N001	440	- 537	-5.84	U	F	#	33.9	19.3
Specific Conductance	umhos/cm	04/16/2012	N001	440	- 537	149		F	#		
Temperature	C	04/16/2012	N001	440	- 537	20.98		F	#		

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HM-2A WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Thorium-234	pCi/L	04/16/2012	N001	440	- 537	27.1	U	F	#	221	207
Tritium	pCi/L	04/16/2012	N001	440	- 537	-124	U	F	#	363	203
Turbidity	NTU	04/16/2012	N001	440	- 537	0.95		F	#		
Uranium-235	pCi/L	04/16/2012	N001	440	- 537	-15.4	U	F	#	26.5	21.5
Uranium-238	pCi/L	04/16/2012	N001	440	- 537	27.1	U	F	#	221	207
Yttrium-88	pCi/L	04/16/2012	N001	440	- 537	2.62	U	F	#	5.23	2.55

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HM-2B WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Actinium-228	pCi/L	04/17/2012	N001	600	- 700	8.19	U	F	#	17.2	10.1
Americium-241	pCi/L	04/17/2012	N001	600	- 700	-.505	U	F	#	26	16.4
Antimony-125	pCi/L	04/17/2012	N001	600	- 700	0.881	U	F	#	9.71	5.25
Cerium-144	pCi/L	04/17/2012	N001	600	- 700	-.395	U	F	#	24.3	14.3
Cesium-134	pCi/L	04/17/2012	N001	600	- 700	1.42	U	F	#	4.2	2.31
Cesium-137	pCi/L	04/17/2012	N001	600	- 700	0.522	U	F	#	3.74	2.04
Cobalt-60	pCi/L	04/17/2012	N001	600	- 700	-.592	U	F	#	3.77	2.07
Enriched Tritium	pCi/L	04/17/2012	N001	600	- 700	1.36	U	F	#	2.62	1.6
Europium-152	pCi/L	04/17/2012	N001	600	- 700	4.11	U	F	#	11.6	6.65
Europium-154	pCi/L	04/17/2012	N001	600	- 700	-.0288	U	F	#	11.1	6.05
Europium-155	pCi/L	04/17/2012	N001	600	- 700	2.36	U	F	#	13.8	7.99
Lead-212	pCi/L	04/17/2012	N001	600	- 700	0.000482	U	F	#	7.31	6.79
pH	s.u.	04/17/2012	N001	600	- 700	9.34		F	#		
Potassium-40	pCi/L	04/17/2012	N001	600	- 700	1.91	U	F	#	42.7	45.2
Promethium-144	pCi/L	04/17/2012	N001	600	- 700	-1.81	U	F	#	3.31	2.18
Promethium-146	pCi/L	04/17/2012	N001	600	- 700	0.592	U	F	#	4.71	2.56
Ruthenium-106	pCi/L	04/17/2012	N001	600	- 700	22.6	U	F	#	35.6	20.6
Specific Conductance	umhos/cm	04/17/2012	N001	600	- 700	471		F	#		
Temperature	C	04/17/2012	N001	600	- 700	20.99		F	#		

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**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HM-2B WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Thorium-234	pCi/L	04/17/2012	N001	600	- 700	160	U	F	#	206	157
Tritium	pCi/L	04/17/2012	N001	600	- 700	-85.4	U	F	#	350	197
Turbidity	NTU	04/17/2012	N001	600	- 700	4.82		F	#		
Uranium-235	pCi/L	04/17/2012	N001	600	- 700	-.112	U	F	#	25.4	15.9
Uranium-238	pCi/L	04/17/2012	N001	600	- 700	160	U	F	#	206	157
Yttrium-88	pCi/L	04/17/2012	N001	600	- 700	-.672	U	F	#	4.56	2.55

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**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HM-3 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Actinium-228	pCi/L	04/16/2012	N002	740	- 873	-4.9	U	F	#	13.8	8.65
Americium-241	pCi/L	04/16/2012	N002	740	- 873	1.2	U	F	#	15.9	9.72
Antimony	mg/L	04/16/2012	N001	740	- 873	0.000071		F	#	0.000012	
Antimony-125	pCi/L	04/16/2012	N002	740	- 873	-1.78	U	F	#	8.74	5.09
Arsenic	mg/L	04/16/2012	N001	740	- 873	0.00072		F	#	0.000015	
Barium	mg/L	04/16/2012	N001	740	- 873	0.15		F	#	0.00019	
Beryllium	mg/L	04/16/2012	N001	740	- 873	0.00018	U	F	#	0.00018	
Cadmium	mg/L	04/16/2012	N001	740	- 873	0.000012	U	F	#	0.000012	
Cerium-144	pCi/L	04/16/2012	N002	740	- 873	-1.27	U	F	#	21.2	12.3
Cesium-134	pCi/L	04/16/2012	N002	740	- 873	-0.0663	U	F	#	3.56	1.92
Cesium-137	pCi/L	04/16/2012	N002	740	- 873	0.571	U	F	#	4.39	2.7
Chromium	mg/L	04/16/2012	N001	740	- 873	0.11		F	#	0.00051	
Cobalt-60	pCi/L	04/16/2012	N002	740	- 873	0.518	U	F	#	3.41	1.72
Enriched Tritium	pCi/L	04/16/2012	N002	740	- 873	1.55	U	F	#	2.25	1.42
Europium-152	pCi/L	04/16/2012	N002	740	- 873	2.39	U	F	#	9.62	5.28
Europium-154	pCi/L	04/16/2012	N002	740	- 873	0.561	U	F	#	8.5	4.27
Europium-155	pCi/L	04/16/2012	N002	740	- 873	-3.02	U	F	#	11.3	6.72
Lead	mg/L	04/16/2012	N001	740	- 873	0.00079		F	#	0.0000068	
Lead-212	pCi/L	04/16/2012	N002	740	- 873	7.42		UF	#	5.33	5.99

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HM-3 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Mercury	mg/L	04/16/2012	N001	740	- 873	0.000012	B	UF	#	0.0000029	
Nickel	mg/L	04/16/2012	N001	740	- 873	0.00093	U	F	#	0.00093	
pH	s.u.	04/16/2012	N002	740	- 873	9.28		F	#		
Potassium-40	pCi/L	04/16/2012	N002	740	- 873	9.02	U	F	#	46.2	24.8
Promethium-144	pCi/L	04/16/2012	N002	740	- 873	1.15	U	F	#	3.37	1.8
Promethium-146	pCi/L	04/16/2012	N002	740	- 873	0.282	U	F	#	3.93	2.17
Ruthenium-106	pCi/L	04/16/2012	N002	740	- 873	4.25	U	F	#	29.6	16.4
Selenium	mg/L	04/16/2012	N001	740	- 873	0.000032	U	F	#	0.000032	
Silver	mg/L	04/16/2012	N001	740	- 873	0.0011	U	F	#	0.0011	
Specific Conductance	umhos /cm	04/16/2012	N002	740	- 873	1290		F	#		
Temperature	C	04/16/2012	N002	740	- 873	20.83		F	#		
Thorium-234	pCi/L	04/16/2012	N002	740	- 873	69.5	U	F	#	136	121
Tritium	pCi/L	04/16/2012	N002	740	- 873	-94.1	U	F	#	363	204
Turbidity	NTU	04/16/2012	N002	740	- 873	1.97		F	#		
Uranium-235	pCi/L	04/16/2012	N002	740	- 873	-9.37	U	F	#	22.5	16.7
Uranium-238	pCi/L	04/16/2012	N002	740	- 873	69.5	U	F	#	136	121
Yttrium-88	pCi/L	04/16/2012	N002	740	- 873	1.78	U	F	#	4.56	2.27
Zinc	mg/L	04/16/2012	N001	740	- 873	0.0016	B	JF	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HM-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Actinium-228	pCi/L	04/17/2012	N002	140	- 204	-3.99	U	F	#	12.8	8.31
Americium-241	pCi/L	04/17/2012	N002	140	- 204	1.86	U	F	#	15.5	9.94
Antimony	mg/L	04/17/2012	N001	140	- 204	0.000037		F	#	0.000012	
Antimony-125	pCi/L	04/17/2012	N002	140	- 204	-4.98	U	F	#	7.54	4.15
Arsenic	mg/L	04/17/2012	N001	140	- 204	0.0012		F	#	0.000015	
Barium	mg/L	04/17/2012	N001	140	- 204	0.46		F	#	0.00019	
Beryllium	mg/L	04/17/2012	N001	140	- 204	0.00018	U	F	#	0.00018	
Cadmium	mg/L	04/17/2012	N001	140	- 204	0.000015	B	F	#	0.000012	
Cerium-144	pCi/L	04/17/2012	N002	140	- 204	3.69	U	F	#	21.2	11.9
Cesium-134	pCi/L	04/17/2012	N002	140	- 204	0.859	U	F	#	3.45	1.78
Cesium-137	pCi/L	04/17/2012	N002	140	- 204	0.262	U	F	#	3.4	1.88
Chromium	mg/L	04/17/2012	N001	140	- 204	0.0012	B	F	#	0.00051	
Cobalt-60	pCi/L	04/17/2012	N002	140	- 204	0.126	U	F	#	3.56	1.91
Europium-152	pCi/L	04/17/2012	N002	140	- 204	1.31	U	F	#	9	4.84
Europium-154	pCi/L	04/17/2012	N002	140	- 204	-1.8	U	F	#	8.07	4.65
Europium-155	pCi/L	04/17/2012	N002	140	- 204	-2.63	U	F	#	10.6	6.15
Lead	mg/L	04/17/2012	N001	140	- 204	0.000021	B	UF	#	0.0000068	
Lead-212	pCi/L	04/17/2012	N002	140	- 204	5.22	U	F	#	7.49	5.77
Mercury	mg/L	04/17/2012	N001	140	- 204	0.000011	B	UF	#	0.0000029	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HM-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Nickel	mg/L	04/17/2012	N001	140	- 204	0.00093	U	F	#	0.00093	
pH	s.u.	04/17/2012	N002	140	- 204	8.47		F	#		
Potassium-40	pCi/L	04/17/2012	N002	140	- 204	5.8	U	F	#	36.9	26.6
Promethium-144	pCi/L	04/17/2012	N002	140	- 204	-1.35	U	F	#	3	1.93
Promethium-146	pCi/L	04/17/2012	N002	140	- 204	0.468	U	F	#	3.71	2
Ruthenium-106	pCi/L	04/17/2012	N002	140	- 204	10.6	U	F	#	31.2	17.2
Selenium	mg/L	04/17/2012	N001	140	- 204	0.000032	U	F	#	0.000032	
Silver	mg/L	04/17/2012	N001	140	- 204	0.0011	U	F	#	0.0011	
Specific Conductance	umhos/cm	04/17/2012	N002	140	- 204	648		F	#		
Temperature	C	04/17/2012	N002	140	- 204	20.44		F	#		
Thorium-234	pCi/L	04/17/2012	N002	140	- 204	5.85	U	F	#	161	104
Tritium	pCi/L	04/17/2012	N002	140	- 204	606		FJ	#	225	229
Turbidity	NTU	04/17/2012	N002	140	- 204	0.49		F	#		
Uranium-235	pCi/L	04/17/2012	N002	140	- 204	-4.73	U	F	#	21.1	14.7
Uranium-238	pCi/L	04/17/2012	N002	140	- 204	5.85	U	F	#	161	104
Yttrium-88	pCi/L	04/17/2012	N002	140	- 204	1.26	U	F	#	4.19	2.05
Zinc	mg/L	04/17/2012	N001	140	- 204	0.00072	U	F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HM-L2 WELL

Parameter	Units	Sample Date	ID	Depth Range	(Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Actinium-228	pCi/L	04/16/2012	N002	10251.49 -	10251.49	-10.3	U	F	#	19.6	13.2
Americium-241	pCi/L	04/16/2012	N002	10251.49 -	10251.49	2.92	U	F	#	6.49	4.2
Antimony	mg/L	04/16/2012	N001	10251.49 -	10251.49	0.000093		F	#	0.000012	
Antimony-125	pCi/L	04/16/2012	N002	10251.49 -	10251.49	0.171	U	F	#	10.3	5.63
Arsenic	mg/L	04/16/2012	N001	10251.49 -	10251.49	0.000085	B	UF	#	0.000015	
Barium	mg/L	04/16/2012	N001	10251.49 -	10251.49	0.064		F	#	0.00019	
Beryllium	mg/L	04/16/2012	N001	10251.49 -	10251.49	0.00018	U	F	#	0.00018	
Cadmium	mg/L	04/16/2012	N001	10251.49 -	10251.49	0.000012	U	F	#	0.000012	
Cerium-144	pCi/L	04/16/2012	N002	10251.49 -	10251.49	7.36	U	F	#	19.3	11
Cesium-134	pCi/L	04/16/2012	N002	10251.49 -	10251.49	0.829	U	F	#	4.75	2.48
Cesium-137	pCi/L	04/16/2012	N002	10251.49 -	10251.49	1.1	U	F	#	4.81	2.65
Chromium	mg/L	04/16/2012	N001	10251.49 -	10251.49	0.00051	U	F	#	0.00051	
Cobalt-60	pCi/L	04/16/2012	N002	10251.49 -	10251.49	0.0354	U	F	#	5.3	2.78
Dissolved Oxygen	mg/L	04/16/2012	N002	10251.49 -	10251.49	0.38		F	#		
Europium-152	pCi/L	04/16/2012	N002	10251.49 -	10251.49	-3.03	U	F	#	9.66	5.65
Europium-154	pCi/L	04/16/2012	N002	10251.49 -	10251.49	2.36	U	F	#	14.1	7.09
Europium-155	pCi/L	04/16/2012	N002	10251.49 -	10251.49	2.4	U	F	#	9.59	5.29
Lead	mg/L	04/16/2012	N001	10251.49 -	10251.49	0.00041		F	#	0.0000068	
Lead-212	pCi/L	04/16/2012	N002	10251.49 -	10251.49	0.329	U	F	#	6.95	5.65

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HM-L2 WELL

Parameter	Units	Sample Date	ID	Depth Range	(Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Mercury	mg/L	04/16/2012	N001	10251.49 -	10251.49	0.0000061	B	UF	#	0.0000029	
Nickel	mg/L	04/16/2012	N001	10251.49 -	10251.49	0.00093	U	F	#	0.00093	
Oxidation Reduction Potential	mV	04/16/2012	N002	10251.49 -	10251.49	46.4		F	#		
pH	s.u.	04/16/2012	N002	10251.49 -	10251.49	7.37		F	#		
Potassium-40	pCi/L	04/16/2012	N002	10251.49 -	10251.49	0.366	U	F	#	48.1	25.2
Promethium-144	pCi/L	04/16/2012	N002	10251.49 -	10251.49	1.04	U	F	#	4.15	2.17
Promethium-146	pCi/L	04/16/2012	N002	10251.49 -	10251.49	0.279	U	F	#	4.8	2.62
Ruthenium-106	pCi/L	04/16/2012	N002	10251.49 -	10251.49	-6.99	U	F	#	33.4	19.6
Selenium	mg/L	04/16/2012	N001	10251.49 -	10251.49	0.000033	B	F	#	0.000032	
Silver	mg/L	04/16/2012	N001	10251.49 -	10251.49	0.0011	U	F	#	0.0011	
Specific Conductance	umhos/cm	04/16/2012	N002	10251.49 -	10251.49	404		F	#		
Temperature	C	04/16/2012	N002	10251.49 -	10251.49	20.19		F	#		
Thorium-234	pCi/L	04/16/2012	N002	10251.49 -	10251.49	58.9	U	F	#	87.7	75.6
Tritium	pCi/L	04/16/2012	N002	10251.49 -	10251.49	11.2	U	F	#	220	114
Turbidity	NTU	04/16/2012	N002	10251.49 -	10251.49	9.25		F	#		
Uranium-235	pCi/L	04/16/2012	N002	10251.49 -	10251.49	15	U	F	#	21.5	13.4
Uranium-238	pCi/L	04/16/2012	N002	10251.49 -	10251.49	58.9	U	F	#	87.7	75.6
Yttrium-88	pCi/L	04/16/2012	N002	10251.49 -	10251.49	-3.14	U	F	#	5.83	3.89
Zinc	mg/L	04/16/2012	N001	10251.49 -	10251.49	0.00072	U	F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HM-S WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/17/2012	N001	20 - 30	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	04/17/2012	N001	20 - 30	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	04/17/2012	N001	20 - 30	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/17/2012	N001	20 - 30	0.3	U	F	#	0.3	
1,1,2-Trichloroethane	ug/L	04/17/2012	N001	20 - 30	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	04/17/2012	N001	20 - 30	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	04/17/2012	N001	20 - 30	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	04/17/2012	N001	20 - 30	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	04/17/2012	N001	20 - 30	0.49	U	F	#	0.49	
1,2,3-Trichloropropane	ug/L	04/17/2012	N001	20 - 30	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	04/17/2012	N001	20 - 30	0.36	U	F	#	0.36	
1,2,4-Trimethylbenzene	ug/L	04/17/2012	N001	20 - 30	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	04/17/2012	N001	20 - 30	0.73	U	F	#	0.73	
1,2-Dibromoethane	ug/L	04/17/2012	N001	20 - 30	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	04/17/2012	N001	20 - 30	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	04/17/2012	N001	20 - 30	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	04/17/2012	N001	20 - 30	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	04/17/2012	N001	20 - 30	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	04/17/2012	N001	20 - 30	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HM-S WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,3-Dichloropropane	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
1-Chlorohexane	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
2-Butanone	ug/L	04/17/2012	N001	20	- 30	3	U	F	#	3	
2-Chlorotoluene	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
2-Hexanone	ug/L	04/17/2012	N001	20	- 30	3	U	F	#	3	
4-Chlorotoluene	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	04/17/2012	N001	20	- 30	3	U	F	#	3	
Acetone	ug/L	04/17/2012	N001	20	- 30	6.4	U	F	#	6.4	
Actinium-228	pCi/L	04/17/2012	0002	20	- 30	11.3	U	F	#	32	17.4
Americium-241	pCi/L	04/17/2012	0002	20	- 30	-13.9	U	F	#	35.6	22.6
Antimony	mg/L	04/17/2012	0001	20	- 30	0.000012	U	F	#	0.000012	
Antimony-125	pCi/L	04/17/2012	0002	20	- 30	13.3	U	F	#	23.3	13.7
Arsenic	mg/L	04/17/2012	0001	20	- 30	0.00015		JF	#	0.000015	
Barium	mg/L	04/17/2012	0001	20	- 30	0.034		F	#	0.00019	
Benzene	ug/L	04/17/2012	N001	20	- 30	0.47	J	F	#	0.3	
Beryllium	mg/L	04/17/2012	0001	20	- 30	0.00018	U	F	#	0.00018	
Bromobenzene	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HM-S WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Bromochloromethane	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Bromoform	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Bromomethane	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Cadmium	mg/L	04/17/2012	0001	20	- 30	0.000012	U	F	#	0.000012	
Carbon Disulfide	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Carbon tetrachloride	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Cerium-144	pCi/L	04/17/2012	0002	20	- 30	17.2	U	F	#	44.6	25.8
Cesium-134	pCi/L	04/17/2012	0002	20	- 30	-1.99	U	F	#	8.01	4.61
Cesium-137	pCi/L	04/17/2012	0002	20	- 30	-6.82	U	F	#	7.17	5.61
Chlorobenzene	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Chloroethane	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Chloroform	ug/L	04/17/2012	N001	20	- 30	0.2	U	F	#	0.2	
Chloromethane	ug/L	04/17/2012	N001	20	- 30	0.33	U	F	#	0.33	
Chromium	mg/L	04/17/2012	0001	20	- 30	0.00051	U	F	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/17/2012	N001	20	- 30	8.7		F	#	0.3	
cis-1,3-Dichloropropene	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Cobalt-60	pCi/L	04/17/2012	0002	20	- 30	-0.229	U	F	#	7.42	3.92

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HM-S WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Dibromomethane	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Ethylbenzene	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Europium-152	pCi/L	04/17/2012	0002	20	- 30	7.14	U	F	#	24	13.3
Europium-154	pCi/L	04/17/2012	0002	20	- 30	-6.47	U	F	#	19	11.6
Europium-155	pCi/L	04/17/2012	0002	20	- 30	7.98	U	F	#	23.3	13.2
Hexachlorobutadiene	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Iodomethane	ug/L	04/17/2012	N001	20	- 30	0.35	U	F	#	0.35	
Isopropylbenzene	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Lead	mg/L	04/17/2012	0001	20	- 30	0.000043	B	F	#	0.0000068	
Lead-212	pCi/L	04/17/2012	0002	20	- 30	6.25	U	F	#	14.8	10.5
m,p-Xylene	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Mercury	mg/L	04/17/2012	0001	20	- 30	0.0000081	B	UF	#	0.0000029	
Methylene chloride	ug/L	04/17/2012	N001	20	- 30	0.32	U	F	#	0.32	
n-Butylbenzene	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
n-Propylbenzene	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Naphthalene	ug/L	04/17/2012	N001	20	- 30	0.42	U	F	#	0.42	
Nickel	mg/L	04/17/2012	0001	20	- 30	0.00093	U	F	#	0.00093	
o-Xylene	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HM-S WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
p-Isopropyltoluene	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
pH	s.u.	04/17/2012	N002	20	- 30	5.84		F	#		
Potassium-40	pCi/L	04/17/2012	0002	20	- 30	17.3	U	F	#	58.4	65.4
Promethium-144	pCi/L	04/17/2012	0002	20	- 30	0.798	U	F	#	7.68	4.33
Promethium-146	pCi/L	04/17/2012	0002	20	- 30	-0.168	U	F	#	10	5.63
Propane, 2-methoxy-2-methyl-	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Ruthenium-106	pCi/L	04/17/2012	0002	20	- 30	-29.3	U	F	#	67.9	42.9
sec-Butylbenzene	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Selenium	mg/L	04/17/2012	0001	20	- 30	0.000074	B	F	#	0.000032	
Silver	mg/L	04/17/2012	0001	20	- 30	0.0011	U	F	#	0.0011	
Specific Conductance	umhos/cm	04/17/2012	N002	20	- 30	1368		F	#		
Styrene	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Temperature	C	04/17/2012	N002	20	- 30	19.85		F	#		
tert-Butylbenzene	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	04/17/2012	N001	20	- 30	0.19	U	F	#	0.19	
Thorium-234	pCi/L	04/17/2012	0002	20	- 30	6.87	U	F	#	321	206
Toluene	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	04/17/2012	N001	20	- 30	1.3		F	#	0.3	
trans-1,3-dichloropropene	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HM-S WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Trichloroethene	ug/L	04/17/2012	N001	20	- 30	2.2		F	#	0.3	
Trichlorofluoromethane	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Tritium	pCi/L	04/17/2012	N002	20	- 30	294		FJ	#	227	171
Turbidity	NTU	04/17/2012	N002	20	- 30	83.2		F	#		
Uranium-235	pCi/L	04/17/2012	0002	20	- 30	4.45	U	F	#	45.6	25.8
Uranium-238	pCi/L	04/17/2012	0002	20	- 30	6.87	U	F	#	321	206
Vinyl Acetate	ug/L	04/17/2012	N001	20	- 30	0.8	U	F	#	0.8	
Vinyl chloride	ug/L	04/17/2012	N001	20	- 30	0.3	U	F	#	0.3	
Yttrium-88	pCi/L	04/17/2012	0002	20	- 30	3.06	U	F	#	8.45	4.1
Zinc	mg/L	04/17/2012	0001	20	- 30	0.00072	U	F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HMM-16R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
1,1,1-Trichloroethane	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
1,1,2-Trichloroethane	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
1,1-Dichloroethane	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
1,1-Dichloroethene	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
1,1-Dichloropropene	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
1,2,3-Trichlorobenzene	ug/L	04/18/2012	N001	15 - 24.9	0.49	U	FQ	#	0.49	
1,2,3-Trichloropropane	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
1,2,4-Trichlorobenzene	ug/L	04/18/2012	N001	15 - 24.9	0.36	U	FQ	#	0.36	
1,2,4-Trimethylbenzene	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	04/18/2012	N001	15 - 24.9	0.73	U	FQ	#	0.73	
1,2-Dibromoethane	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
1,2-Dichlorobenzene	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
1,2-Dichloroethane	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
1,2-Dichloropropane	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
1,3,5-Trimethylbenzene	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
1,3-Dichlorobenzene	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HMH-16R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,3-Dichloropropane	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
1,4-Dichlorobenzene	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
1-Chlorohexane	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
2,2-Dichloropropane	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
2-Butanone	ug/L	04/18/2012	N001	15 - 24.9	3	U	FQ	#	3	
2-Chlorotoluene	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
2-Hexanone	ug/L	04/18/2012	N001	15 - 24.9	3	U	FQ	#	3	
4-Chlorotoluene	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
4-Methyl-2-Pentanone	ug/L	04/18/2012	N001	15 - 24.9	3	U	FQ	#	3	
Acetone	ug/L	04/18/2012	N001	15 - 24.9	6.4	U	FQ	#	6.4	
Antimony	mg/L	04/18/2012	N001	15 - 24.9	0.000014	B	FQ	#	0.000012	
Arsenic	mg/L	04/18/2012	N001	15 - 24.9	0.00024		JFQ	#	0.000015	
Barium	mg/L	04/18/2012	N001	15 - 24.9	0.39		FQ	#	0.00019	
Benzene	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
Beryllium	mg/L	04/18/2012	N001	15 - 24.9	0.00018	U	FQ	#	0.00018	
Bromobenzene	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
Bromochloromethane	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
Bromodichloromethane	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
Bromoform	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HMH-16R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Bromomethane	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
Cadmium	mg/L	04/18/2012	N001	15 - 24.9	0.00002	B	FQ	#	0.000012	
Carbon Disulfide	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
Carbon tetrachloride	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
Chlorobenzene	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
Chlorodibromomethane	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
Chloroethane	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
Chloroform	ug/L	04/18/2012	N001	15 - 24.9	0.2	U	FQ	#	0.2	
Chloromethane	ug/L	04/18/2012	N001	15 - 24.9	0.33	U	FQ	#	0.33	
Chromium	mg/L	04/18/2012	N001	15 - 24.9	0.00051	U	FQ	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
cis-1,3-Dichloropropene	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
Dibromomethane	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
Dichlorodifluoromethane	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
Enriched Tritium	pCi/L	04/18/2012	N002	15 - 24.9	14.3		FQ	#	3.66	4.94
Ethylbenzene	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
Hexachlorobutadiene	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	
Iodomethane	ug/L	04/18/2012	N001	15 - 24.9	0.35	U	FQ	#	0.35	
Isopropylbenzene	ug/L	04/18/2012	N001	15 - 24.9	0.3	U	FQ	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HMH-16R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Lead	mg/L	04/18/2012	N001	15	- 24.9	0.000012	B	FQ	#	0.0000068	
m,p-Xylene	ug/L	04/18/2012	N001	15	- 24.9	0.3	U	FQ	#	0.3	
Mercury	mg/L	04/18/2012	N001	15	- 24.9	0.000011	B	UFQ	#	0.0000029	
Methylene chloride	ug/L	04/18/2012	N001	15	- 24.9	0.32	U	FQ	#	0.32	
n-Butylbenzene	ug/L	04/18/2012	N001	15	- 24.9	0.3	U	FQ	#	0.3	
n-Propylbenzene	ug/L	04/18/2012	N001	15	- 24.9	0.3	U	FQ	#	0.3	
Naphthalene	ug/L	04/18/2012	N001	15	- 24.9	0.42	U	FQ	#	0.42	
Nickel	mg/L	04/18/2012	N001	15	- 24.9	0.00093	U	FQ	#	0.00093	
o-Xylene	ug/L	04/18/2012	N001	15	- 24.9	0.3	U	FQ	#	0.3	
p-Isopropyltoluene	ug/L	04/18/2012	N001	15	- 24.9	0.3	U	FQ	#	0.3	
pH	s.u.	04/18/2012	N002	15	- 24.9	6.58		FQJ	#		
Propane, 2-methoxy-2-methyl-	ug/L	04/18/2012	N001	15	- 24.9	0.3	U	FQ	#	0.3	
sec-Butylbenzene	ug/L	04/18/2012	N001	15	- 24.9	0.3	U	FQ	#	0.3	
Selenium	mg/L	04/18/2012	N001	15	- 24.9	0.000032	U	FQ	#	0.000032	
Silver	mg/L	04/18/2012	N001	15	- 24.9	0.0011	U	FQ	#	0.0011	
Specific Conductance	umhos/cm	04/18/2012	N002	15	- 24.9	968		FQ	#		
Styrene	ug/L	04/18/2012	N001	15	- 24.9	0.3	U	FQ	#	0.3	
Temperature	C	04/18/2012	N002	15	- 24.9	19.33		FQ	#		
tert-Butylbenzene	ug/L	04/18/2012	N001	15	- 24.9	0.3	U	FQ	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HMH-16R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Tetrachloroethene	ug/L	04/18/2012	N001	15	- 24.9	0.19	U	FQ	#	0.19	
Toluene	ug/L	04/18/2012	N001	15	- 24.9	0.3	U	FQ	#	0.3	
trans-1,2-Dichloroethene	ug/L	04/18/2012	N001	15	- 24.9	0.3	U	FQ	#	0.3	
trans-1,3-dichloropropene	ug/L	04/18/2012	N001	15	- 24.9	0.3	U	FQ	#	0.3	
Trichloroethene	ug/L	04/18/2012	N001	15	- 24.9	0.3	U	FQ	#	0.3	
Trichlorofluoromethane	ug/L	04/18/2012	N001	15	- 24.9	0.3	U	FQ	#	0.3	
Tritium	pCi/L	04/18/2012	N002	15	- 24.9	-124	U	FQ	#	362	202
Turbidity	NTU	04/18/2012	N002	15	- 24.9	3.76		FQ	#		
Vinyl Acetate	ug/L	04/18/2012	N001	15	- 24.9	0.8	U	FQ	#	0.8	
Vinyl chloride	ug/L	04/18/2012	N001	15	- 24.9	0.3	U	FQ	#	0.3	
Zinc	mg/L	04/18/2012	N001	15	- 24.9	0.00072	U	FQ	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HMH-5R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/18/2012	N001	20 - 29.4	0.3	U	F	#	0.3	
1,1,1,2-Tetrachloroethane	ug/L	04/18/2012	N002	20 - 29.4	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	04/18/2012	N001	20 - 29.4	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	04/18/2012	N002	20 - 29.4	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	04/18/2012	N001	20 - 29.4	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	04/18/2012	N002	20 - 29.4	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/18/2012	N001	20 - 29.4	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/18/2012	N002	20 - 29.4	0.3	U	F	#	0.3	
1,1,2-Trichloroethane	ug/L	04/18/2012	N001	20 - 29.4	0.3	U	F	#	0.3	
1,1,2-Trichloroethane	ug/L	04/18/2012	N002	20 - 29.4	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	04/18/2012	N001	20 - 29.4	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	04/18/2012	N002	20 - 29.4	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	04/18/2012	N001	20 - 29.4	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	04/18/2012	N002	20 - 29.4	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	04/18/2012	N001	20 - 29.4	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	04/18/2012	N002	20 - 29.4	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	04/18/2012	N001	20 - 29.4	0.49	U	F	#	0.49	
1,2,3-Trichlorobenzene	ug/L	04/18/2012	N002	20 - 29.4	0.49	U	F	#	0.49	
1,2,3-Trichloropropane	ug/L	04/18/2012	N001	20 - 29.4	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HMH-5R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,2,3-Trichloropropane	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	04/18/2012	N001	20	- 29.4	0.36	U	F	#	0.36	
1,2,4-Trichlorobenzene	ug/L	04/18/2012	N002	20	- 29.4	0.36	U	F	#	0.36	
1,2,4-Trimethylbenzene	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
1,2,4-Trimethylbenzene	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	04/18/2012	N001	20	- 29.4	0.73	U	F	#	0.73	
1,2-Dibromo-3-chloropropane	ug/L	04/18/2012	N002	20	- 29.4	0.73	U	F	#	0.73	
1,2-Dibromoethane	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
1,2-Dibromoethane	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HMH-5R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,3-Dichloropropane	ug/L	04/18/2012	N001	20 - 29.4	0.3	U	F	#	0.3	
1,3-Dichloropropane	ug/L	04/18/2012	N002	20 - 29.4	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	04/18/2012	N001	20 - 29.4	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	04/18/2012	N002	20 - 29.4	0.3	U	F	#	0.3	
1-Chlorohexane	ug/L	04/18/2012	N001	20 - 29.4	0.3	U	F	#	0.3	
1-Chlorohexane	ug/L	04/18/2012	N002	20 - 29.4	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	04/18/2012	N001	20 - 29.4	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	04/18/2012	N002	20 - 29.4	0.3	U	F	#	0.3	
2-Butanone	ug/L	04/18/2012	N001	20 - 29.4	3	U	F	#	3	
2-Butanone	ug/L	04/18/2012	N002	20 - 29.4	3	U	F	#	3	
2-Chlorotoluene	ug/L	04/18/2012	N001	20 - 29.4	0.3	U	F	#	0.3	
2-Chlorotoluene	ug/L	04/18/2012	N002	20 - 29.4	0.3	U	F	#	0.3	
2-Hexanone	ug/L	04/18/2012	N001	20 - 29.4	3	U	F	#	3	
2-Hexanone	ug/L	04/18/2012	N002	20 - 29.4	3	U	F	#	3	
4-Chlorotoluene	ug/L	04/18/2012	N001	20 - 29.4	0.3	U	F	#	0.3	
4-Chlorotoluene	ug/L	04/18/2012	N002	20 - 29.4	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	04/18/2012	N001	20 - 29.4	3	U	F	#	3	
4-Methyl-2-Pentanone	ug/L	04/18/2012	N002	20 - 29.4	3	U	F	#	3	
Acetone	ug/L	04/18/2012	N001	20 - 29.4	6.4	U	F	#	6.4	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HMH-5R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Acetone	ug/L	04/18/2012	N002	20	- 29.4	6.4	U	F	#	6.4	
Antimony	mg/L	04/18/2012	0001	20	- 29.4	0.000063		F	#	0.000012	
Antimony	mg/L	04/18/2012	0002	20	- 29.4	0.000014	B	F	#	0.000012	
Arsenic	mg/L	04/18/2012	0001	20	- 29.4	0.004		F	#	0.000015	
Arsenic	mg/L	04/18/2012	0002	20	- 29.4	0.004		F	#	0.000015	
Barium	mg/L	04/18/2012	0001	20	- 29.4	0.12		F	#	0.00019	
Barium	mg/L	04/18/2012	0002	20	- 29.4	0.13		F	#	0.00019	
Benzene	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
Benzene	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Beryllium	mg/L	04/18/2012	0001	20	- 29.4	0.00018	U	F	#	0.00018	
Beryllium	mg/L	04/18/2012	0002	20	- 29.4	0.00018	U	F	#	0.00018	
Bromobenzene	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
Bromobenzene	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Bromoform	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
Bromoform	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HMH-5R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Bromomethane	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
Bromomethane	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Cadmium	mg/L	04/18/2012	0001	20	- 29.4	0.000012	U	F	#	0.000012	
Cadmium	mg/L	04/18/2012	0002	20	- 29.4	0.000012	U	F	#	0.000012	
Carbon Disulfide	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
Carbon Disulfide	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Carbon tetrachloride	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
Carbon tetrachloride	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Chlorobenzene	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
Chlorobenzene	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Chloroethane	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
Chloroethane	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Chloroform	ug/L	04/18/2012	N001	20	- 29.4	0.2	U	F	#	0.2	
Chloroform	ug/L	04/18/2012	N002	20	- 29.4	0.2	U	F	#	0.2	
Chloromethane	ug/L	04/18/2012	N001	20	- 29.4	0.33	U	F	#	0.33	
Chloromethane	ug/L	04/18/2012	N002	20	- 29.4	0.33	U	F	#	0.33	
Chromium	mg/L	04/18/2012	0001	20	- 29.4	0.00051	U	F	#	0.00051	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HMH-5R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Chromium	mg/L	04/18/2012	0002	20	- 29.4	0.00051	U	F	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/18/2012	N001	20	- 29.4	29		F	#	0.3	
cis-1,2-Dichloroethene	ug/L	04/18/2012	N002	20	- 29.4	29		F	#	0.3	
cis-1,3-Dichloropropene	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
cis-1,3-Dichloropropene	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Dibromomethane	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
Dibromomethane	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Ethylbenzene	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
Ethylbenzene	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Iodomethane	ug/L	04/18/2012	N001	20	- 29.4	0.35	U	F	#	0.35	
Iodomethane	ug/L	04/18/2012	N002	20	- 29.4	0.35	U	F	#	0.35	
Isopropylbenzene	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
Isopropylbenzene	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Lead	mg/L	04/18/2012	0001	20	- 29.4	0.00018		F	#	0.0000068	
Lead	mg/L	04/18/2012	0002	20	- 29.4	0.000038	B	UF	#	0.0000068	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HMH-5R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
m,p-Xylene	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
m,p-Xylene	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Mercury	mg/L	04/18/2012	0001	20	- 29.4	0.0000029	U	F	#	0.0000029	
Mercury	mg/L	04/18/2012	0002	20	- 29.4	0.0000046	B	UF	#	0.0000029	
Methylene chloride	ug/L	04/18/2012	N001	20	- 29.4	0.32	U	F	#	0.32	
Methylene chloride	ug/L	04/18/2012	N002	20	- 29.4	0.32	U	F	#	0.32	
n-Butylbenzene	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
n-Butylbenzene	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
n-Propylbenzene	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
n-Propylbenzene	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Naphthalene	ug/L	04/18/2012	N001	20	- 29.4	0.42	U	F	#	0.42	
Naphthalene	ug/L	04/18/2012	N002	20	- 29.4	0.42	U	F	#	0.42	
Nickel	mg/L	04/18/2012	0001	20	- 29.4	0.00093	U	F	#	0.00093	
Nickel	mg/L	04/18/2012	0002	20	- 29.4	0.00093	U	F	#	0.00093	
o-Xylene	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
o-Xylene	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
p-Isopropyltoluene	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
p-Isopropyltoluene	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
pH	s.u.	04/18/2012	N003	20	- 29.4	5.46		F	#		

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HMH-5R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Propane, 2-methoxy-2-methyl-	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
Propane, 2-methoxy-2-methyl-	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Selenium	mg/L	04/18/2012	0001	20	- 29.4	0.000035	B	F	#	0.000032	
Selenium	mg/L	04/18/2012	0002	20	- 29.4	0.000061	B	F	#	0.000032	
Silver	mg/L	04/18/2012	0001	20	- 29.4	0.0011	U	F	#	0.0011	
Silver	mg/L	04/18/2012	0002	20	- 29.4	0.0011	U	F	#	0.0011	
Specific Conductance	umhos/cm	04/18/2012	N003	20	- 29.4	249		F	#		
Styrene	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
Styrene	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Temperature	C	04/18/2012	N003	20	- 29.4	18.33		F	#		
tert-Butylbenzene	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
tert-Butylbenzene	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	04/18/2012	N001	20	- 29.4	0.19	U	F	#	0.19	
Tetrachloroethene	ug/L	04/18/2012	N002	20	- 29.4	0.19	U	F	#	0.19	
Toluene	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
Toluene	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	04/18/2012	N001	20	- 29.4	3.4		F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HMH-5R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
trans-1,2-Dichloroethene	ug/L	04/18/2012	N002	20	- 29.4	3.5		F	#	0.3	
trans-1,3-dichloropropene	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
trans-1,3-dichloropropene	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Trichloroethene	ug/L	04/18/2012	N001	20	- 29.4	51		F	#	0.3	
Trichloroethene	ug/L	04/18/2012	N002	20	- 29.4	52		F	#	0.3	
Trichlorofluoromethane	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
Trichlorofluoromethane	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Tritium	pCi/L	04/18/2012	N003	20	- 29.4	847		F	#	224	274
Turbidity	NTU	04/18/2012	N003	20	- 29.4	20.8		F	#		
Vinyl Acetate	ug/L	04/18/2012	N001	20	- 29.4	0.8	U	F	#	0.8	
Vinyl Acetate	ug/L	04/18/2012	N002	20	- 29.4	0.8	U	F	#	0.8	
Vinyl chloride	ug/L	04/18/2012	N001	20	- 29.4	0.3	U	F	#	0.3	
Vinyl chloride	ug/L	04/18/2012	N002	20	- 29.4	0.3	U	F	#	0.3	
Zinc	mg/L	04/18/2012	0001	20	- 29.4	0.0028	B	JF	#	0.00072	
Zinc	mg/L	04/18/2012	0002	20	- 29.4	0.00072	U	F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,1,2-Tetrachloroethane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,1,2-Trichloroethane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,2-Trichloroethane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	04/16/2012	N001	10 - 29.5	0.49	U	F	#	0.49	
1,2,3-Trichlorobenzene	ug/L	04/16/2012	N002	10 - 29.5	0.49	U	F	#	0.49	
1,2,3-Trichloropropane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,2,3-Trichloropropane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	04/16/2012	N001	10 - 29.5	0.36	U	F	#	0.36	
1,2,4-Trichlorobenzene	ug/L	04/16/2012	N002	10 - 29.5	0.36	U	F	#	0.36	
1,2,4-Trimethylbenzene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2,4-Trimethylbenzene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	04/16/2012	N001	10 - 29.5	0.73	U	F	#	0.73	
1,2-Dibromo-3-chloropropane	ug/L	04/16/2012	N002	10 - 29.5	0.73	U	F	#	0.73	
1,2-Dibromoethane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dibromoethane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,3-Dichloropropane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,3-Dichloropropane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1-Chlorohexane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1-Chlorohexane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
2-Butanone	ug/L	04/16/2012	N001	10 - 29.5	3	U	F	#	3	
2-Butanone	ug/L	04/16/2012	N002	10 - 29.5	3	U	F	#	3	
2-Chlorotoluene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
2-Chlorotoluene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
2-Hexanone	ug/L	04/16/2012	N001	10 - 29.5	3	U	F	#	3	
2-Hexanone	ug/L	04/16/2012	N002	10 - 29.5	3	U	F	#	3	
4-Chlorotoluene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
4-Chlorotoluene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	04/16/2012	N001	10 - 29.5	3	U	F	#	3	
4-Methyl-2-Pentanone	ug/L	04/16/2012	N002	10 - 29.5	3	U	F	#	3	
Acetone	ug/L	04/16/2012	N001	10 - 29.5	6.4	U	F	#	6.4	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Acetone	ug/L	04/16/2012	N002	10	- 29.5	6.4	U	F	#	6.4	
Antimony	mg/L	04/16/2012	N001	10	- 29.5	0.000012	U	F	#	0.000012	
Antimony	mg/L	04/16/2012	N002	10	- 29.5	0.000012	U	F	#	0.000012	
Arsenic	mg/L	04/16/2012	N001	10	- 29.5	0.0045		F	#	0.000015	
Arsenic	mg/L	04/16/2012	N002	10	- 29.5	0.0044		F	#	0.000015	
Barium	mg/L	04/16/2012	N001	10	- 29.5	0.32		F	#	0.00019	
Barium	mg/L	04/16/2012	N002	10	- 29.5	0.32		F	#	0.00019	
Benzene	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Benzene	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Beryllium	mg/L	04/16/2012	N001	10	- 29.5	0.00038	B	F	#	0.00018	
Beryllium	mg/L	04/16/2012	N002	10	- 29.5	0.00018	U	F	#	0.00018	
Bromobenzene	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Bromobenzene	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Bromoform	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Bromoform	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Bromomethane	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Bromomethane	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Cadmium	mg/L	04/16/2012	N001	10	- 29.5	0.000012	U	F	#	0.000012	
Cadmium	mg/L	04/16/2012	N002	10	- 29.5	0.000012	U	F	#	0.000012	
Carbon Disulfide	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Carbon Disulfide	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Carbon tetrachloride	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Carbon tetrachloride	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Chlorobenzene	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Chlorobenzene	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Chloroethane	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Chloroethane	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Chloroform	ug/L	04/16/2012	N001	10	- 29.5	0.2	U	F	#	0.2	
Chloroform	ug/L	04/16/2012	N002	10	- 29.5	0.2	U	F	#	0.2	
Chloromethane	ug/L	04/16/2012	N001	10	- 29.5	0.33	U	F	#	0.33	
Chloromethane	ug/L	04/16/2012	N002	10	- 29.5	0.33	U	F	#	0.33	
Chromium	mg/L	04/16/2012	N001	10	- 29.5	0.00051	U	F	#	0.00051	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Chromium	mg/L	04/16/2012	N002	10	- 29.5	0.00051	U	F	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/16/2012	N001	10	- 29.5	7.2		F	#	0.3	
cis-1,2-Dichloroethene	ug/L	04/16/2012	N002	10	- 29.5	6.7		F	#	0.3	
cis-1,3-Dichloropropene	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
cis-1,3-Dichloropropene	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Dibromomethane	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Dibromomethane	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Ethylbenzene	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Ethylbenzene	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Iodomethane	ug/L	04/16/2012	N001	10	- 29.5	0.35	U	F	#	0.35	
Iodomethane	ug/L	04/16/2012	N002	10	- 29.5	0.35	U	F	#	0.35	
Isopropylbenzene	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Isopropylbenzene	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Lead	mg/L	04/16/2012	N001	10	- 29.5	0.000085		JF	#	0.000068	
Lead	mg/L	04/16/2012	N002	10	- 29.5	0.00024		JF	#	0.000068	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
m,p-Xylene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
m,p-Xylene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Mercury	mg/L	04/16/2012	N001	10 - 29.5	0.0000029	U	F	#	0.0000029	
Mercury	mg/L	04/16/2012	N002	10 - 29.5	0.0000056	B	UF	#	0.0000029	
Methylene chloride	ug/L	04/16/2012	N001	10 - 29.5	0.32	U	F	#	0.32	
Methylene chloride	ug/L	04/16/2012	N002	10 - 29.5	0.32	U	F	#	0.32	
n-Butylbenzene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
n-Butylbenzene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
n-Propylbenzene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
n-Propylbenzene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Naphthalene	ug/L	04/16/2012	N001	10 - 29.5	0.42	U	F	#	0.42	
Naphthalene	ug/L	04/16/2012	N002	10 - 29.5	0.42	U	F	#	0.42	
Nickel	mg/L	04/16/2012	N001	10 - 29.5	0.00093	U	F	#	0.00093	
Nickel	mg/L	04/16/2012	N002	10 - 29.5	0.00093	U	F	#	0.00093	
o-Xylene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
o-Xylene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
p-Isopropyltoluene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
p-Isopropyltoluene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
pH	s.u.	04/16/2012	N003	10 - 29.5	5.8		F	#		

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Propane, 2-methoxy-2-methyl-	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Propane, 2-methoxy-2-methyl-	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Selenium	mg/L	04/16/2012	N001	10	- 29.5	0.000091	B	F	#	0.000032	
Selenium	mg/L	04/16/2012	N002	10	- 29.5	0.000066	B	F	#	0.000032	
Silver	mg/L	04/16/2012	N001	10	- 29.5	0.0011	U	F	#	0.0011	
Silver	mg/L	04/16/2012	N002	10	- 29.5	0.0011	U	F	#	0.0011	
Specific Conductance	umhos/cm	04/16/2012	N003	10	- 29.5	705		F	#		
Styrene	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Styrene	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Temperature	C	04/16/2012	N003	10	- 29.5	19.67		F	#		
tert-Butylbenzene	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
tert-Butylbenzene	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	04/16/2012	N001	10	- 29.5	0.19	U	F	#	0.19	
Tetrachloroethene	ug/L	04/16/2012	N002	10	- 29.5	0.19	U	F	#	0.19	
Toluene	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Toluene	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	04/16/2012	N001	10	- 29.5	2.3		F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
trans-1,2-Dichloroethene	ug/L	04/16/2012	N002	10 - 29.5	2.2		F	#	0.3	
trans-1,3-dichloropropene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
trans-1,3-dichloropropene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Trichloroethene	ug/L	04/16/2012	N001	10 - 29.5	2.2		F	#	0.3	
Trichloroethene	ug/L	04/16/2012	N002	10 - 29.5	2.1		F	#	0.3	
Trichlorofluoromethane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Trichlorofluoromethane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Tritium	pCi/L	04/16/2012	N003	10 - 29.5	3240		F	#	225	736
Turbidity	NTU	04/16/2012	N003	10 - 29.5	3.95		F	#		
Vinyl Acetate	ug/L	04/16/2012	N001	10 - 29.5	0.8	U	F	#	0.8	
Vinyl Acetate	ug/L	04/16/2012	N002	10 - 29.5	0.8	U	F	#	0.8	
Vinyl chloride	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Vinyl chloride	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Zinc	mg/L	04/16/2012	N001	10 - 29.5	0.0038	B	F	#	0.00072	
Zinc	mg/L	04/16/2012	N002	10 - 29.5	0.0013	B	JF	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-11-3 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Actinium-228	pCi/L	04/17/2012	N001	843.2 - 903.2	6.58	U	F	#	13.2	7.27
Americium-241	pCi/L	04/17/2012	N001	843.2 - 903.2	-3.34	U	F	#	13	7.92
Antimony-125	pCi/L	04/17/2012	N001	843.2 - 903.2	-1.02	U	F	#	8.01	4.68
Cerium-144	pCi/L	04/17/2012	N001	843.2 - 903.2	3	U	F	#	19.6	10.9
Cesium-134	pCi/L	04/17/2012	N001	843.2 - 903.2	-528	U	F	#	3.03	1.71
Cesium-137	pCi/L	04/17/2012	N001	843.2 - 903.2	0.126	U	F	#	3.13	1.69
Cobalt-60	pCi/L	04/17/2012	N001	843.2 - 903.2	0.862	U	F	#	3.78	1.94
Dissolved Oxygen	mg/L	04/17/2012	N001	843.2 - 903.2	0.19		F	#		
Europium-152	pCi/L	04/17/2012	N001	843.2 - 903.2	3.89	U	F	#	8.79	5.15
Europium-154	pCi/L	04/17/2012	N001	843.2 - 903.2	-1.28	U	F	#	7.49	4.07
Europium-155	pCi/L	04/17/2012	N001	843.2 - 903.2	1.2	U	F	#	10.4	5.73
Lead-212	pCi/L	04/17/2012	N001	843.2 - 903.2	2.11	U	F	#	6.5	4.62
Oxidation Reduction Potential	mV	04/17/2012	N001	843.2 - 903.2	-353		F	#		
pH	s.u.	04/17/2012	N001	843.2 - 903.2	8.31		F	#		
Potassium-40	pCi/L	04/17/2012	N001	843.2 - 903.2	-3.03	U	F	#	41.6	23
Promethium-144	pCi/L	04/17/2012	N001	843.2 - 903.2	-1.147	U	F	#	2.9	1.6
Promethium-146	pCi/L	04/17/2012	N001	843.2 - 903.2	1.37	U	F	#	4.02	2.28
Ruthenium-106	pCi/L	04/17/2012	N001	843.2 - 903.2	4.79	U	F	#	27.6	14.7
Specific Conductance	umhos /cm	04/17/2012	N001	843.2 - 903.2	996		F	#		

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-11-3 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Temperature	C	04/17/2012	N001	843.2	- 903.2	20.88		F	#		
Thorium-234	pCi/L	04/17/2012	N001	843.2	- 903.2	12.7	U	F	#	139	88
Tritium	pCi/L	04/17/2012	N001	843.2	- 903.2	-22.9	U	F	#	224	110
Turbidity	NTU	04/17/2012	N001	843.2	- 903.2	0.56		F	#		
Uranium-235	pCi/L	04/17/2012	N001	843.2	- 903.2	-0.268	U	F	#	20.5	13.9
Uranium-238	pCi/L	04/17/2012	N001	843.2	- 903.2	12.7	U	F	#	139	88
Yttrium-88	pCi/L	04/17/2012	N001	843.2	- 903.2	-1.18	U	F	#	3.19	1.94

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-12-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/18/2012	N001	22 - 29.5	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	04/18/2012	N001	22 - 29.5	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	04/18/2012	N001	22 - 29.5	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/18/2012	N001	22 - 29.5	0.3	U	F	#	0.3	
1,1,2-Trichloroethane	ug/L	04/18/2012	N001	22 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	04/18/2012	N001	22 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	04/18/2012	N001	22 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	04/18/2012	N001	22 - 29.5	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	04/18/2012	N001	22 - 29.5	0.49	U	F	#	0.49	
1,2,3-Trichloropropane	ug/L	04/18/2012	N001	22 - 29.5	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	04/18/2012	N001	22 - 29.5	0.36	U	F	#	0.36	
1,2,4-Trimethylbenzene	ug/L	04/18/2012	N001	22 - 29.5	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	04/18/2012	N001	22 - 29.5	0.73	U	F	#	0.73	
1,2-Dibromoethane	ug/L	04/18/2012	N001	22 - 29.5	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	04/18/2012	N001	22 - 29.5	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	04/18/2012	N001	22 - 29.5	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	04/18/2012	N001	22 - 29.5	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	04/18/2012	N001	22 - 29.5	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	04/18/2012	N001	22 - 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-12-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,3-Dichloropropane	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
1-Chlorohexane	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
2-Butanone	ug/L	04/18/2012	N001	22	- 29.5	3	U	F	#	3	
2-Chlorotoluene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
2-Hexanone	ug/L	04/18/2012	N001	22	- 29.5	3	U	F	#	3	
4-Chlorotoluene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	04/18/2012	N001	22	- 29.5	3	U	F	#	3	
Acetone	ug/L	04/18/2012	N001	22	- 29.5	6.4	U	F	#	6.4	
Antimony	mg/L	04/18/2012	N001	22	- 29.5	0.000012	U	F	#	0.000012	
Arsenic	mg/L	04/18/2012	N001	22	- 29.5	0.0002		JF	#	0.000015	
Barium	mg/L	04/18/2012	N001	22	- 29.5	0.32		F	#	0.00019	
Benzene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Beryllium	mg/L	04/18/2012	N001	22	- 29.5	0.00018	U	F	#	0.00018	
Bromobenzene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Bromoform	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-12-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Bromomethane	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Cadmium	mg/L	04/18/2012	N001	22	- 29.5	0.000022	B	F	#	0.000012	
Carbon Disulfide	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Carbon tetrachloride	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Chlorobenzene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Chloroethane	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Chloroform	ug/L	04/18/2012	N001	22	- 29.5	0.2	U	F	#	0.2	
Chloromethane	ug/L	04/18/2012	N001	22	- 29.5	0.33	U	F	#	0.33	
Chromium	mg/L	04/18/2012	N001	22	- 29.5	0.00051	U	F	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
cis-1,3-Dichloropropene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Dibromomethane	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Ethylbenzene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Iodomethane	ug/L	04/18/2012	N001	22	- 29.5	0.35	U	F	#	0.35	
Isopropylbenzene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Lead	mg/L	04/18/2012	N001	22	- 29.5	0.000021	B	UF	#	0.000068	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-12-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
m,p-Xylene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Mercury	mg/L	04/18/2012	N001	22	- 29.5	0.0000029	U	F	#	0.0000029	
Methylene chloride	ug/L	04/18/2012	N001	22	- 29.5	0.32	U	F	#	0.32	
n-Butylbenzene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
n-Propylbenzene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Naphthalene	ug/L	04/18/2012	N001	22	- 29.5	0.42	U	F	#	0.42	
Nickel	mg/L	04/18/2012	N001	22	- 29.5	0.00099	B	F	#	0.00093	
o-Xylene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
p-Isopropyltoluene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
pH	s.u.	04/18/2012	N002	22	- 29.5	6.99		FJ	#		
Propane, 2-methoxy-2-methyl-	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Selenium	mg/L	04/18/2012	N001	22	- 29.5	0.000032	U	F	#	0.000032	
Silver	mg/L	04/18/2012	N001	22	- 29.5	0.0011	U	F	#	0.0011	
Specific Conductance	umhos/cm	04/18/2012	N002	22	- 29.5	390		F	#		
Styrene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Temperature	C	04/18/2012	N002	22	- 29.5	18.74		F	#		
tert-Butylbenzene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	04/18/2012	N001	22	- 29.5	0.19	U	F	#	0.19	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-12-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Toluene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
trans-1,3-dichloropropene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Trichloroethene	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Trichlorofluoromethane	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Tritium	pCi/L	04/18/2012	N002	22	- 29.5	21.9	U	F	#	231	121
Turbidity	NTU	04/18/2012	N002	22	- 29.5	1.34		F	#		
Vinyl Acetate	ug/L	04/18/2012	N001	22	- 29.5	0.8	U	F	#	0.8	
Vinyl chloride	ug/L	04/18/2012	N001	22	- 29.5	0.3	U	F	#	0.3	
Zinc	mg/L	04/18/2012	N001	22	- 29.5	0.00072	U	F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-2-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,1,2-Tetrachloroethane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,1,2-Trichloroethane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,2-Trichloroethane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	04/16/2012	N001	10 - 29.5	0.49	U	F	#	0.49	
1,2,3-Trichlorobenzene	ug/L	04/16/2012	N002	10 - 29.5	0.49	U	F	#	0.49	
1,2,3-Trichloropropane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2,3-Trichloropropane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-2-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,2,4-Trichlorobenzene	ug/L	04/16/2012	N001	10 - 29.5	0.36	U	F	#	0.36	
1,2,4-Trichlorobenzene	ug/L	04/16/2012	N002	10 - 29.5	0.36	U	F	#	0.36	
1,2,4-Trimethylbenzene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2,4-Trimethylbenzene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	04/16/2012	N001	10 - 29.5	0.73	U	F	#	0.73	
1,2-Dibromo-3-chloropropane	ug/L	04/16/2012	N002	10 - 29.5	0.73	U	F	#	0.73	
1,2-Dibromoethane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dibromoethane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,3-Dichloropropane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,3-Dichloropropane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-2-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,4-Dichlorobenzene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1-Chlorohexane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1-Chlorohexane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
2-Butanone	ug/L	04/16/2012	N001	10 - 29.5	3	U	F	#	3	
2-Butanone	ug/L	04/16/2012	N002	10 - 29.5	3	U	F	#	3	
2-Chlorotoluene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
2-Chlorotoluene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
2-Hexanone	ug/L	04/16/2012	N001	10 - 29.5	3	U	F	#	3	
2-Hexanone	ug/L	04/16/2012	N002	10 - 29.5	3	U	F	#	3	
4-Chlorotoluene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
4-Chlorotoluene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	04/16/2012	N001	10 - 29.5	3	U	F	#	3	
4-Methyl-2-Pentanone	ug/L	04/16/2012	N002	10 - 29.5	3	U	F	#	3	
Acetone	ug/L	04/16/2012	N001	10 - 29.5	6.4	U	F	#	6.4	
Acetone	ug/L	04/16/2012	N002	10 - 29.5	6.4	U	F	#	6.4	
Antimony	mg/L	04/16/2012	0001	10 - 29.5	0.000069		F	#	0.000012	
Arsenic	mg/L	04/16/2012	0001	10 - 29.5	0.0016		F	#	0.000015	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-2-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Barium	mg/L	04/16/2012	0001	10	- 29.5	0.085		F	#	0.00019	
Benzene	ug/L	04/16/2012	N001	10	- 29.5	0.31	J	F	#	0.3	
Benzene	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Beryllium	mg/L	04/16/2012	0001	10	- 29.5	0.00027	B	F	#	0.00018	
Bromobenzene	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Bromobenzene	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Bromoform	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Bromoform	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Bromomethane	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Bromomethane	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Cadmium	mg/L	04/16/2012	0001	10	- 29.5	0.000066		F	#	0.000012	
Carbon Disulfide	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Carbon Disulfide	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Carbon tetrachloride	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Carbon tetrachloride	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Chlorobenzene	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-2-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Chlorobenzene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Chloroethane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Chloroethane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Chloroform	ug/L	04/16/2012	N001	10 - 29.5	0.2	U	F	#	0.2	
Chloroform	ug/L	04/16/2012	N002	10 - 29.5	0.2	U	F	#	0.2	
Chloromethane	ug/L	04/16/2012	N001	10 - 29.5	0.33	U	F	#	0.33	
Chloromethane	ug/L	04/16/2012	N002	10 - 29.5	0.33	U	F	#	0.33	
Chromium	mg/L	04/16/2012	0001	10 - 29.5	0.00051	U	F	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/16/2012	N001	10 - 29.5	6.9		F	#	0.3	
cis-1,2-Dichloroethene	ug/L	04/16/2012	N002	10 - 29.5	6.7		F	#	0.3	
cis-1,3-Dichloropropene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
cis-1,3-Dichloropropene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Dibromomethane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Dibromomethane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Ethylbenzene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Ethylbenzene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-2-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Hexachlorobutadiene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Iodomethane	ug/L	04/16/2012	N001	10 - 29.5	0.35	U	F	#	0.35	
Iodomethane	ug/L	04/16/2012	N002	10 - 29.5	0.35	U	F	#	0.35	
Isopropylbenzene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Isopropylbenzene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Lead	mg/L	04/16/2012	0001	10 - 29.5	0.000018	B	UF	#	0.0000068	
m,p-Xylene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
m,p-Xylene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Mercury	mg/L	04/16/2012	0001	10 - 29.5	0.0000029	U	F	#	0.0000029	
Methylene chloride	ug/L	04/16/2012	N001	10 - 29.5	0.32	U	F	#	0.32	
Methylene chloride	ug/L	04/16/2012	N002	10 - 29.5	0.32	U	F	#	0.32	
n-Butylbenzene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
n-Butylbenzene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
n-Propylbenzene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
n-Propylbenzene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Naphthalene	ug/L	04/16/2012	N001	10 - 29.5	0.42	U	F	#	0.42	
Naphthalene	ug/L	04/16/2012	N002	10 - 29.5	0.42	U	F	#	0.42	
Nickel	mg/L	04/16/2012	0001	10 - 29.5	0.00093	U	F	#	0.00093	
o-Xylene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-2-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
o-Xylene	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
p-Isopropyltoluene	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
p-Isopropyltoluene	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
pH	s.u.	04/16/2012	N003	10	- 29.5	5.82		F	#		
Propane, 2-methoxy-2-methyl-	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Propane, 2-methoxy-2-methyl-	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Selenium	mg/L	04/16/2012	0001	10	- 29.5	0.0001	B	F	#	0.000032	
Silver	mg/L	04/16/2012	0001	10	- 29.5	0.0011	U	F	#	0.0011	
Specific Conductance	umhos /cm	04/16/2012	N003	10	- 29.5	1452		F	#		
Styrene	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Styrene	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Temperature	C	04/16/2012	N003	10	- 29.5	18.56		F	#		
tert-Butylbenzene	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
tert-Butylbenzene	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	04/16/2012	N001	10	- 29.5	0.23	J	F	#	0.19	
Tetrachloroethene	ug/L	04/16/2012	N002	10	- 29.5	0.21	J	F	#	0.19	
Toluene	ug/L	04/16/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Toluene	ug/L	04/16/2012	N002	10	- 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-2-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
trans-1,2-Dichloroethene	ug/L	04/16/2012	N001	10 - 29.5	2		F	#	0.3	
trans-1,2-Dichloroethene	ug/L	04/16/2012	N002	10 - 29.5	1.8		F	#	0.3	
trans-1,3-dichloropropene	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
trans-1,3-dichloropropene	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Trichloroethene	ug/L	04/16/2012	N001	10 - 29.5	1.5		F	#	0.3	
Trichloroethene	ug/L	04/16/2012	N002	10 - 29.5	1.3		F	#	0.3	
Trichlorofluoromethane	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Trichlorofluoromethane	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Tritium	pCi/L	04/16/2012	N003	10 - 29.5	281		FJ	#	226	168
Turbidity	NTU	04/16/2012	N003	10 - 29.5	24.2		F	#		
Vinyl Acetate	ug/L	04/16/2012	N001	10 - 29.5	0.8	U	F	#	0.8	
Vinyl Acetate	ug/L	04/16/2012	N002	10 - 29.5	0.8	U	F	#	0.8	
Vinyl chloride	ug/L	04/16/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Vinyl chloride	ug/L	04/16/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Zinc	mg/L	04/16/2012	0001	10 - 29.5	0.00072	U	F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-3-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,2-Trichloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.49	U	F	#	0.49	
1,2,3-Trichloropropane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.36	U	F	#	0.36	
1,2,4-Trimethylbenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	04/18/2012	N001	10 - 29.5	0.73	U	F	#	0.73	
1,2-Dibromoethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-3-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,3-Dichloropropane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1-Chlorohexane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
2-Butanone	ug/L	04/18/2012	N001	10 - 29.5	3	U	F	#	3	
2-Chlorotoluene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
2-Hexanone	ug/L	04/18/2012	N001	10 - 29.5	3	U	F	#	3	
4-Chlorotoluene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	04/18/2012	N001	10 - 29.5	3	U	F	#	3	
Acetone	ug/L	04/18/2012	N001	10 - 29.5	6.4	U	F	#	6.4	
Antimony	mg/L	04/18/2012	0001	10 - 29.5	0.000036		F	#	0.000012	
Arsenic	mg/L	04/18/2012	0001	10 - 29.5	0.015		F	#	0.000015	
Barium	mg/L	04/18/2012	0001	10 - 29.5	0.077		F	#	0.00019	
Benzene	ug/L	04/18/2012	N001	10 - 29.5	0.96	J	F	#	0.3	
Beryllium	mg/L	04/18/2012	0001	10 - 29.5	0.00035	B	F	#	0.00018	
Bromobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Bromoform	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-3-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Bromomethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Cadmium	mg/L	04/18/2012	0001	10 - 29.5	0.000012	U	F	#	0.000012	
Carbon Disulfide	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Carbon tetrachloride	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Chlorobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Chloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Chloroform	ug/L	04/18/2012	N001	10 - 29.5	0.2	U	F	#	0.2	
Chloromethane	ug/L	04/18/2012	N001	10 - 29.5	0.33	U	F	#	0.33	
Chromium	mg/L	04/18/2012	0001	10 - 29.5	0.0029	B	F	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/18/2012	N001	10 - 29.5	62		F	#	1.5	
cis-1,3-Dichloropropene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Dibromomethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Ethylbenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Iodomethane	ug/L	04/18/2012	N001	10 - 29.5	0.35	U	F	#	0.35	
Isopropylbenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Lead	mg/L	04/18/2012	0001	10 - 29.5	0.000039	B	UF	#	0.000068	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-3-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
m,p-Xylene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Mercury	mg/L	04/18/2012	0001	10	- 29.5	0.0000029	U	F	#	0.0000029	
Methylene chloride	ug/L	04/18/2012	N001	10	- 29.5	0.32	U	F	#	0.32	
n-Butylbenzene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
n-Propylbenzene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Naphthalene	ug/L	04/18/2012	N001	10	- 29.5	0.42	U	F	#	0.42	
Nickel	mg/L	04/18/2012	0001	10	- 29.5	0.00093	U	F	#	0.00093	
o-Xylene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
p-Isopropyltoluene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
pH	s.u.	04/18/2012	N002	10	- 29.5	6.18		FJ	#		
Propane, 2-methoxy-2-methyl-	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Selenium	mg/L	04/18/2012	0001	10	- 29.5	0.0002		F	#	0.000032	
Silver	mg/L	04/18/2012	0001	10	- 29.5	0.0011	U	F	#	0.0011	
Specific Conductance	umhos/cm	04/18/2012	N002	10	- 29.5	2820		F	#		
Styrene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Temperature	C	04/18/2012	N002	10	- 29.5	19.67		F	#		
tert-Butylbenzene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	04/18/2012	N001	10	- 29.5	0.19	U	F	#	0.19	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-3-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Toluene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	04/18/2012	N001	10	- 29.5	26		F	#	0.3	
trans-1,3-dichloropropene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Trichloroethene	ug/L	04/18/2012	N001	10	- 29.5	1.9		F	#	0.3	
Trichlorofluoromethane	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Tritium	pCi/L	04/18/2012	N002	10	- 29.5	301		FJ	#	224	170
Turbidity	NTU	04/18/2012	N002	10	- 29.5	110		F	#		
Vinyl Acetate	ug/L	04/18/2012	N001	10	- 29.5	0.8	U	F	#	0.8	
Vinyl chloride	ug/L	04/18/2012	N001	10	- 29.5	1.1		F	#	0.3	
Zinc	mg/L	04/18/2012	0001	10	- 29.5	0.00072	U	F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,2-Trichloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.49	U	F	#	0.49	
1,2,3-Trichloropropane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.36	U	F	#	0.36	
1,2,4-Trimethylbenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	04/18/2012	N001	10 - 29.5	0.73	U	F	#	0.73	
1,2-Dibromoethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,3-Dichloropropane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1-Chlorohexane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
2-Butanone	ug/L	04/18/2012	N001	10 - 29.5	3	U	F	#	3	
2-Chlorotoluene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
2-Hexanone	ug/L	04/18/2012	N001	10 - 29.5	3	U	F	#	3	
4-Chlorotoluene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	04/18/2012	N001	10 - 29.5	3	U	F	#	3	
Acetone	ug/L	04/18/2012	N001	10 - 29.5	6.4	U	F	#	6.4	
Antimony	mg/L	04/18/2012	N001	10 - 29.5	0.000012	U	F	#	0.000012	
Arsenic	mg/L	04/18/2012	N001	10 - 29.5	0.00042		F	#	0.000015	
Barium	mg/L	04/18/2012	N001	10 - 29.5	0.26		F	#	0.00019	
Benzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Beryllium	mg/L	04/18/2012	N001	10 - 29.5	0.0002	B	F	#	0.00018	
Bromobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Bromoform	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Bromomethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Cadmium	mg/L	04/18/2012	N001	10 - 29.5	0.00002	B	F	#	0.000012	
Carbon Disulfide	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Carbon tetrachloride	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Chlorobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Chloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Chloroform	ug/L	04/18/2012	N001	10 - 29.5	0.2	U	F	#	0.2	
Chloromethane	ug/L	04/18/2012	N001	10 - 29.5	0.33	U	F	#	0.33	
Chromium	mg/L	04/18/2012	N001	10 - 29.5	0.00051	U	F	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
cis-1,3-Dichloropropene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Dibromomethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Ethylbenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Iodomethane	ug/L	04/18/2012	N001	10 - 29.5	0.35	U	F	#	0.35	
Isopropylbenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Lead	mg/L	04/18/2012	N001	10 - 29.5	0.000059		UF	#	0.000068	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
m,p-Xylene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Mercury	mg/L	04/18/2012	N001	10	- 29.5	0.0000029	U	F	#	0.0000029	
Methylene chloride	ug/L	04/18/2012	N001	10	- 29.5	0.32	U	F	#	0.32	
n-Butylbenzene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
n-Propylbenzene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Naphthalene	ug/L	04/18/2012	N001	10	- 29.5	0.42	U	F	#	0.42	
Nickel	mg/L	04/18/2012	N001	10	- 29.5	0.00093	U	F	#	0.00093	
o-Xylene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
p-Isopropyltoluene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
pH	s.u.	04/18/2012	N002	10	- 29.5	5.63		F	#		
Propane, 2-methoxy-2-methyl-	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Selenium	mg/L	04/18/2012	N001	10	- 29.5	0.000032	U	F	#	0.000032	
Silver	mg/L	04/18/2012	N001	10	- 29.5	0.0011	U	F	#	0.0011	
Specific Conductance	umhos/cm	04/18/2012	N002	10	- 29.5	261		F	#		
Styrene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Temperature	C	04/18/2012	N002	10	- 29.5	19.81		F	#		
tert-Butylbenzene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	04/18/2012	N001	10	- 29.5	0.19	U	F	#	0.19	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Toluene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
trans-1,3-dichloropropene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Trichloroethene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Trichlorofluoromethane	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Tritium	pCi/L	04/18/2012	N002	10	- 29.5	44.6	U	F	#	226	123
Turbidity	NTU	04/18/2012	N002	10	- 29.5	4.29		F	#		
Vinyl Acetate	ug/L	04/18/2012	N001	10	- 29.5	0.8	U	F	#	0.8	
Vinyl chloride	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Zinc	mg/L	04/18/2012	N001	10	- 29.5	0.00072	U	F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-5-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
1,1,2-Trichloroethane	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	04/16/2012	N001	13	- 29.5	0.49	U	F	#	0.49	
1,2,3-Trichloropropane	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	04/16/2012	N001	13	- 29.5	0.36	U	F	#	0.36	
1,2,4-Trimethylbenzene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	04/16/2012	N001	13	- 29.5	0.73	U	F	#	0.73	
1,2-Dibromoethane	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-5-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,3-Dichloropropane	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
1-Chlorohexane	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
2-Butanone	ug/L	04/16/2012	N001	13	- 29.5	3	U	F	#	3	
2-Chlorotoluene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
2-Hexanone	ug/L	04/16/2012	N001	13	- 29.5	3	U	F	#	3	
4-Chlorotoluene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	04/16/2012	N001	13	- 29.5	3	U	F	#	3	
Acetone	ug/L	04/16/2012	N001	13	- 29.5	6.4	U	F	#	6.4	
Antimony	mg/L	04/16/2012	N001	13	- 29.5	0.000026	B	F	#	0.000012	
Arsenic	mg/L	04/16/2012	N001	13	- 29.5	0.00053		F	#	0.000015	
Barium	mg/L	04/16/2012	N001	13	- 29.5	0.021		F	#	0.00019	
Benzene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
Beryllium	mg/L	04/16/2012	N001	13	- 29.5	0.00018	U	F	#	0.00018	
Bromobenzene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
Bromoform	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-5-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Bromomethane	ug/L	04/16/2012	N001	13 - 29.5	0.3	U	F	#	0.3	
Cadmium	mg/L	04/16/2012	N001	13 - 29.5	0.000012	U	F	#	0.000012	
Carbon Disulfide	ug/L	04/16/2012	N001	13 - 29.5	0.3	U	F	#	0.3	
Carbon tetrachloride	ug/L	04/16/2012	N001	13 - 29.5	0.3	U	F	#	0.3	
Chlorobenzene	ug/L	04/16/2012	N001	13 - 29.5	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	04/16/2012	N001	13 - 29.5	0.3	U	F	#	0.3	
Chloroethane	ug/L	04/16/2012	N001	13 - 29.5	0.3	U	F	#	0.3	
Chloroform	ug/L	04/16/2012	N001	13 - 29.5	0.2	U	F	#	0.2	
Chloromethane	ug/L	04/16/2012	N001	13 - 29.5	0.33	U	F	#	0.33	
Chromium	mg/L	04/16/2012	N001	13 - 29.5	0.00051	U	F	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/16/2012	N001	13 - 29.5	8.1		F	#	0.3	
cis-1,3-Dichloropropene	ug/L	04/16/2012	N001	13 - 29.5	0.3	U	F	#	0.3	
Dibromomethane	ug/L	04/16/2012	N001	13 - 29.5	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	04/16/2012	N001	13 - 29.5	0.3	U	F	#	0.3	
Dissolved Oxygen	mg/L	04/16/2012	N002	13 - 29.5	0.26		F	#		
Enriched Tritium	pCi/L	04/16/2012	N002	13 - 29.5	110		F	#	3.45	30.7
Ethylbenzene	ug/L	04/16/2012	N001	13 - 29.5	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	04/16/2012	N001	13 - 29.5	0.3	U	F	#	0.3	
Iodomethane	ug/L	04/16/2012	N001	13 - 29.5	0.35	U	F	#	0.35	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-5-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Isopropylbenzene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
Lead	mg/L	04/16/2012	N001	13	- 29.5	0.000097		F	#	0.0000068	
m,p-Xylene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
Mercury	mg/L	04/16/2012	N001	13	- 29.5	0.0000029	U	F	#	0.0000029	
Methylene chloride	ug/L	04/16/2012	N001	13	- 29.5	0.32	U	F	#	0.32	
n-Butylbenzene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
n-Propylbenzene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
Naphthalene	ug/L	04/16/2012	N001	13	- 29.5	0.42	U	F	#	0.42	
Nickel	mg/L	04/16/2012	N001	13	- 29.5	0.00093	U	F	#	0.00093	
o-Xylene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
Oxidation Reduction Potential	mV	04/16/2012	N002	13	- 29.5	-47		F	#		
p-Isopropyltoluene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
pH	s.u.	04/16/2012	N002	13	- 29.5	6.26		F	#		
Propane, 2-methoxy-2-methyl-	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
Selenium	mg/L	04/16/2012	N001	13	- 29.5	0.00017		F	#	0.000032	
Silver	mg/L	04/16/2012	N001	13	- 29.5	0.0011	U	F	#	0.0011	
Specific Conductance	umhos/cm	04/16/2012	N002	13	- 29.5	1685		F	#		
Styrene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-5-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Temperature	C	04/16/2012	N002	13	- 29.5	18.97		F	#		
tert-Butylbenzene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	04/16/2012	N001	13	- 29.5	0.19	U	F	#	0.19	
Toluene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	04/16/2012	N001	13	- 29.5	2.1		F	#	0.3	
trans-1,3-dichloropropene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
Trichloroethene	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
Trichlorofluoromethane	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
Tritium	pCi/L	04/16/2012	N002	13	- 29.5	138	U	F	#	354	210
Turbidity	NTU	04/16/2012	N002	13	- 29.5	8.73		F	#		
Vinyl Acetate	ug/L	04/16/2012	N001	13	- 29.5	0.8	U	F	#	0.8	
Vinyl chloride	ug/L	04/16/2012	N001	13	- 29.5	0.3	U	F	#	0.3	
Zinc	mg/L	04/16/2012	N001	13	- 29.5	0.0018	B	JF	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-6-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
1,1,2-Trichloroethane	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	04/18/2012	N001	3	- 22.5	0.49	U	F	#	0.49	
1,2,3-Trichloropropane	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	04/18/2012	N001	3	- 22.5	0.36	U	F	#	0.36	
1,2,4-Trimethylbenzene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	04/18/2012	N001	3	- 22.5	0.73	U	F	#	0.73	
1,2-Dibromoethane	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-6-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,3-Dichloropropane	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
1-Chlorohexane	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
2-Butanone	ug/L	04/18/2012	N001	3	- 22.5	3	U	F	#	3	
2-Chlorotoluene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
2-Hexanone	ug/L	04/18/2012	N001	3	- 22.5	3	U	F	#	3	
4-Chlorotoluene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	04/18/2012	N001	3	- 22.5	3	U	F	#	3	
Acetone	ug/L	04/18/2012	N001	3	- 22.5	6.4	U	F	#	6.4	
Antimony	mg/L	04/18/2012	0001	3	- 22.5	0.000088		F	#	0.000012	
Arsenic	mg/L	04/18/2012	0001	3	- 22.5	0.000063	B	UF	#	0.000015	
Barium	mg/L	04/18/2012	0001	3	- 22.5	0.016	BE	JF	#	0.00019	
Benzene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Beryllium	mg/L	04/18/2012	0001	3	- 22.5	0.00018	U	F	#	0.00018	
Bromobenzene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Bromoform	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-6-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Bromomethane	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Cadmium	mg/L	04/18/2012	0001	3	- 22.5	0.000012	U	F	#	0.000012	
Carbon Disulfide	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Carbon tetrachloride	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Chlorobenzene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Chloroethane	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Chloroform	ug/L	04/18/2012	N001	3	- 22.5	0.2	U	F	#	0.2	
Chloromethane	ug/L	04/18/2012	N001	3	- 22.5	0.33	U	F	#	0.33	
Chromium	mg/L	04/18/2012	0001	3	- 22.5	0.00051	U	F	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
cis-1,3-Dichloropropene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Dibromomethane	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Ethylbenzene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Iodomethane	ug/L	04/18/2012	N001	3	- 22.5	0.35	U	F	#	0.35	
Isopropylbenzene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Lead	mg/L	04/18/2012	0001	3	- 22.5	0.000053		UF	#	0.000068	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-6-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
m,p-Xylene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Mercury	mg/L	04/18/2012	0001	3	- 22.5	0.0000029	U	F	#	0.0000029	
Methylene chloride	ug/L	04/18/2012	N001	3	- 22.5	0.32	U	F	#	0.32	
n-Butylbenzene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
n-Propylbenzene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Naphthalene	ug/L	04/18/2012	N001	3	- 22.5	0.42	U	F	#	0.42	
Nickel	mg/L	04/18/2012	0001	3	- 22.5	0.00093	U	F	#	0.00093	
o-Xylene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
p-Isopropyltoluene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
pH	s.u.	04/18/2012	N002	3	- 22.5	5.07		F	#		
Propane, 2-methoxy-2-methyl-	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Selenium	mg/L	04/18/2012	0001	3	- 22.5	0.000032	U	F	#	0.000032	
Silver	mg/L	04/18/2012	0001	3	- 22.5	0.0011	U	F	#	0.0011	
Specific Conductance	umhos/cm	04/18/2012	N002	3	- 22.5	50		F	#		
Styrene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Temperature	C	04/18/2012	N002	3	- 22.5	21.12		F	#		
tert-Butylbenzene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	04/18/2012	N001	3	- 22.5	0.19	U	F	#	0.19	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-6-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Toluene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
trans-1,3-dichloropropene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Trichloroethene	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Trichlorofluoromethane	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Tritium	pCi/L	04/18/2012	N002	3	- 22.5	11.4	U	F	#	224	116
Turbidity	NTU	04/18/2012	N002	3	- 22.5	272		FJ	#		
Vinyl Acetate	ug/L	04/18/2012	N001	3	- 22.5	0.8	U	F	#	0.8	
Vinyl chloride	ug/L	04/18/2012	N001	3	- 22.5	0.3	U	F	#	0.3	
Zinc	mg/L	04/18/2012	0001	3	- 22.5	0.00072	U	F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-7-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,2-Trichloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.49	U	F	#	0.49	
1,2,3-Trichloropropane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.36	U	F	#	0.36	
1,2,4-Trimethylbenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	04/18/2012	N001	10 - 29.5	0.73	U	F	#	0.73	
1,2-Dibromoethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-7-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,3-Dichloropropane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1-Chlorohexane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
2-Butanone	ug/L	04/18/2012	N001	10 - 29.5	3	U	F	#	3	
2-Chlorotoluene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
2-Hexanone	ug/L	04/18/2012	N001	10 - 29.5	3	U	F	#	3	
4-Chlorotoluene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	04/18/2012	N001	10 - 29.5	3	U	F	#	3	
Acetone	ug/L	04/18/2012	N001	10 - 29.5	6.4	U	F	#	6.4	
Antimony	mg/L	04/18/2012	N001	10 - 29.5	0.000018	B	F	#	0.000012	
Arsenic	mg/L	04/18/2012	N001	10 - 29.5	0.014		F	#	0.000015	
Barium	mg/L	04/18/2012	N001	10 - 29.5	0.3		F	#	0.00019	
Benzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Beryllium	mg/L	04/18/2012	N001	10 - 29.5	0.00018	U	F	#	0.00018	
Bromobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Bromoform	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-7-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Bromomethane	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Cadmium	mg/L	04/18/2012	N001	10	- 29.5	0.000012	U	F	#	0.000012	
Carbon Disulfide	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Carbon tetrachloride	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Chlorobenzene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Chloroethane	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Chloroform	ug/L	04/18/2012	N001	10	- 29.5	0.2	U	F	#	0.2	
Chloromethane	ug/L	04/18/2012	N001	10	- 29.5	0.33	U	F	#	0.33	
Chromium	mg/L	04/18/2012	N001	10	- 29.5	0.00051	U	F	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/18/2012	N001	10	- 29.5	0.59	J	F	#	0.3	
cis-1,3-Dichloropropene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Dibromomethane	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Enriched Tritium	pCi/L	04/18/2012	N002	10	- 29.5	7.42		FJ	#	4.12	3.51
Ethylbenzene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Iodomethane	ug/L	04/18/2012	N001	10	- 29.5	0.35	U	F	#	0.35	
Isopropylbenzene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-7-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Lead	mg/L	04/18/2012	N001	10	- 29.5	0.000038	B	UF	#	0.0000068	
m,p-Xylene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Mercury	mg/L	04/18/2012	N001	10	- 29.5	0.0000029	U	F	#	0.0000029	
Methylene chloride	ug/L	04/18/2012	N001	10	- 29.5	0.32	U	F	#	0.32	
n-Butylbenzene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
n-Propylbenzene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Naphthalene	ug/L	04/18/2012	N001	10	- 29.5	0.42	U	F	#	0.42	
Nickel	mg/L	04/18/2012	N001	10	- 29.5	0.00093	U	F	#	0.00093	
o-Xylene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
p-Isopropyltoluene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
pH	s.u.	04/18/2012	N002	10	- 29.5	5.81		F	#		
Propane, 2-methoxy-2-methyl-	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Selenium	mg/L	04/18/2012	N001	10	- 29.5	0.00091		F	#	0.000032	
Silver	mg/L	04/18/2012	N001	10	- 29.5	0.0011	U	F	#	0.0011	
Specific Conductance	umhos/cm	04/18/2012	N002	10	- 29.5	1319		F	#		
Styrene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Temperature	C	04/18/2012	N002	10	- 29.5	20.57		F	#		
tert-Butylbenzene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-7-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Tetrachloroethene	ug/L	04/18/2012	N001	10	- 29.5	0.19	U	F	#	0.19	
Toluene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
trans-1,3-dichloropropene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Trichloroethene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Trichlorofluoromethane	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Tritium	pCi/L	04/18/2012	N002	10	- 29.5	34.8	U	F	#	351	203
Turbidity	NTU	04/18/2012	N002	10	- 29.5	8.79		F	#		
Vinyl Acetate	ug/L	04/18/2012	N001	10	- 29.5	0.8	U	F	#	0.8	
Vinyl chloride	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Zinc	mg/L	04/18/2012	N001	10	- 29.5	0.00072	U	F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-8-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Actinium-228	pCi/L	04/17/2012	N002	145	- 185	-6.99	U	F	#	17.6	11.4
Americium-241	pCi/L	04/17/2012	N002	145	- 185	3.54	U	F	#	6.67	4.38
Antimony	mg/L	04/17/2012	N001	145	- 185	0.000013	B	F	#	0.000012	
Antimony-125	pCi/L	04/17/2012	N002	145	- 185	5.81	U	F	#	10.8	6.07
Arsenic	mg/L	04/17/2012	N001	145	- 185	0.0032		F	#	0.000015	
Barium	mg/L	04/17/2012	N001	145	- 185	0.21		F	#	0.00019	
Beryllium	mg/L	04/17/2012	N001	145	- 185	0.00018	U	F	#	0.00018	
Cadmium	mg/L	04/17/2012	N001	145	- 185	0.000012	U	F	#	0.000012	
Cerium-144	pCi/L	04/17/2012	N002	145	- 185	-3.49	U	F	#	19.6	11.3
Cesium-134	pCi/L	04/17/2012	N002	145	- 185	0.288	U	F	#	3.93	2.02
Cesium-137	pCi/L	04/17/2012	N002	145	- 185	1.11	U	F	#	4.5	2.46
Chromium	mg/L	04/17/2012	N001	145	- 185	0.00051	U	F	#	0.00051	
Cobalt-60	pCi/L	04/17/2012	N002	145	- 185	-501	U	F	#	4.53	2.43
Dissolved Oxygen	mg/L	04/17/2012	N002	145	- 185	0.23		F	#		
Enriched Tritium	pCi/L	04/17/2012	N002	145	- 185	0.756	U	F	#	2.19	1.3
Europium-152	pCi/L	04/17/2012	N002	145	- 185	4.13	U	F	#	11.5	6.45
Europium-154	pCi/L	04/17/2012	N002	145	- 185	-6.69	U	F	#	10	6.91
Europium-155	pCi/L	04/17/2012	N002	145	- 185	1.56	U	F	#	9.78	5.38
Lead	mg/L	04/17/2012	N001	145	- 185	0.000038	B	F	#	0.0000068	
Lead-212	pCi/L	04/17/2012	N002	145	- 185	1.86	U	F	#	6.14	7.09

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA1-8-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Mercury	mg/L	04/17/2012	N001	145	- 185	0.0000029	U	F	#	0.0000029	
Nickel	mg/L	04/17/2012	N001	145	- 185	0.00093	U	F	#	0.00093	
Oxidation Reduction Potential	mV	04/17/2012	N002	145	- 185	-114.4		F	#		
pH	s.u.	04/17/2012	N002	145	- 185	7		F	#		
Potassium-40	pCi/L	04/17/2012	N002	145	- 185	14.7	U	F	#	53.2	27
Promethium-144	pCi/L	04/17/2012	N002	145	- 185	0.188	U	F	#	4.24	2.26
Promethium-146	pCi/L	04/17/2012	N002	145	- 185	-1.39	U	F	#	4.46	2.66
Ruthenium-106	pCi/L	04/17/2012	N002	145	- 185	2.86	U	F	#	37.1	20.4
Selenium	mg/L	04/17/2012	N001	145	- 185	0.000032	U	F	#	0.000032	
Silver	mg/L	04/17/2012	N001	145	- 185	0.0011	U	F	#	0.0011	
Specific Conductance	umhos/cm	04/17/2012	N002	145	- 185	192		F	#		
Temperature	C	04/17/2012	N002	145	- 185	20.77		F	#		
Thorium-234	pCi/L	04/17/2012	N002	145	- 185	56.5	U	F	#	90.4	77.6
Tritium	pCi/L	04/17/2012	N002	145	- 185	-114	U	F	#	340	190
Turbidity	NTU	04/17/2012	N002	145	- 185	3.28		F	#		
Uranium-235	pCi/L	04/17/2012	N002	145	- 185	17.1	U	F	#	22.3	15.3
Uranium-238	pCi/L	04/17/2012	N002	145	- 185	56.5	U	F	#	90.4	77.6
Yttrium-88	pCi/L	04/17/2012	N002	145	- 185	-0.287	U	F	#	5.72	3.05
Zinc	mg/L	04/17/2012	N001	145	- 185	0.04		F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA2-1-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Actinium-228	pCi/L	04/18/2012	N002	278.1 - 338.1	0.319	U	F	#	12.6	8.05
Americium-241	pCi/L	04/18/2012	N002	278.1 - 338.1	5.1	U	F	#	12.4	7.93
Antimony	mg/L	04/18/2012	N001	278.1 - 338.1	0.00017		F	#	0.000012	
Antimony-125	pCi/L	04/18/2012	N002	278.1 - 338.1	-2.82	U	F	#	7.48	4.61
Arsenic	mg/L	04/18/2012	N001	278.1 - 338.1	0.0088		F	#	0.000015	
Barium	mg/L	04/18/2012	N001	278.1 - 338.1	0.056		F	#	0.00019	
Beryllium	mg/L	04/18/2012	N001	278.1 - 338.1	0.00018	U	F	#	0.00018	
Cadmium	mg/L	04/18/2012	N001	278.1 - 338.1	0.000012	U	F	#	0.000012	
Cerium-144	pCi/L	04/18/2012	N002	278.1 - 338.1	-5.31	U	F	#	19.3	11.9
Cesium-134	pCi/L	04/18/2012	N002	278.1 - 338.1	-1.5	U	F	#	3	1.91
Cesium-137	pCi/L	04/18/2012	N002	278.1 - 338.1	0.462	U	F	#	3.11	1.65
Chromium	mg/L	04/18/2012	N001	278.1 - 338.1	0.00051	U	F	#	0.00051	
Cobalt-60	pCi/L	04/18/2012	N002	278.1 - 338.1	1.04	U	F	#	3.99	2.13
Europium-152	pCi/L	04/18/2012	N002	278.1 - 338.1	1.17	U	F	#	8.75	4.84
Europium-154	pCi/L	04/18/2012	N002	278.1 - 338.1	2.57	U	F	#	9.9	5.24
Europium-155	pCi/L	04/18/2012	N002	278.1 - 338.1	-3.53	U	F	#	10.2	6.29
Lead	mg/L	04/18/2012	N001	278.1 - 338.1	0.000061		F	#	0.000068	
Lead-212	pCi/L	04/18/2012	N002	278.1 - 338.1	-1.21	U	F	#	6.28	3.95
Mercury	mg/L	04/18/2012	N001	278.1 - 338.1	0.000014	B	UF	#	0.000029	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA2-1-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Nickel	mg/L	04/18/2012	N001	278.1	- 338.1	0.00093	U	F	#	0.00093	
pH	s.u.	04/18/2012	N002	278.1	- 338.1	8.56		FJ	#		
Potassium-40	pCi/L	04/18/2012	N002	278.1	- 338.1	-.448	U	F	#	45.6	26.9
Promethium-144	pCi/L	04/18/2012	N002	278.1	- 338.1	-.74	U	F	#	2.63	1.53
Promethium-146	pCi/L	04/18/2012	N002	278.1	- 338.1	1.02	U	F	#	4.24	2.38
Ruthenium-106	pCi/L	04/18/2012	N002	278.1	- 338.1	7.92	U	F	#	25.3	13.9
Selenium	mg/L	04/18/2012	N001	278.1	- 338.1	0.00013		F	#	0.000032	
Silver	mg/L	04/18/2012	N001	278.1	- 338.1	0.0011	U	F	#	0.0011	
Specific Conductance	umhos/cm	04/18/2012	N002	278.1	- 338.1	299		F	#		
Temperature	C	04/18/2012	N002	278.1	- 338.1	20.22		F	#		
Thorium-234	pCi/L	04/18/2012	N002	278.1	- 338.1	0	UI	F	#	102	130
Tritium	pCi/L	04/18/2012	N002	278.1	- 338.1	-23	U	F	#	225	110
Turbidity	NTU	04/18/2012	N002	278.1	- 338.1	0.54		F	#		
Uranium-235	pCi/L	04/18/2012	N002	278.1	- 338.1	5.19	U	F	#	20.1	13.2
Uranium-238	pCi/L	04/18/2012	N002	278.1	- 338.1	0	UI	F	#	102	130
Yttrium-88	pCi/L	04/18/2012	N002	278.1	- 338.1	1.83	U	F	#	3.68	1.8
Zinc	mg/L	04/18/2012	N001	278.1	- 338.1	0.00072	U	F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA2-2-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Actinium-228	pCi/L	04/17/2012	N002	275	- 335	1.8	U	FQ	#	15.2	8.94
Americium-241	pCi/L	04/17/2012	N002	275	- 335	-5.34	U	FQ	#	12.7	8.16
Antimony	mg/L	04/17/2012	N001	275	- 335	0.00027		FQ	#	0.000012	
Antimony-125	pCi/L	04/17/2012	N002	275	- 335	-2.54	U	FQ	#	8.51	5.01
Arsenic	mg/L	04/17/2012	N001	275	- 335	0.00037		FQ	#	0.000015	
Barium	mg/L	04/17/2012	N001	275	- 335	0.87		FQ	#	0.00019	
Beryllium	mg/L	04/17/2012	N001	275	- 335	0.00018	U	FQ	#	0.00018	
Cadmium	mg/L	04/17/2012	N001	275	- 335	0.000012	U	FQ	#	0.000012	
Cerium-144	pCi/L	04/17/2012	N002	275	- 335	-9.74	U	FQ	#	21.5	15.1
Cesium-134	pCi/L	04/17/2012	N002	275	- 335	-1.26	U	FQ	#	3.36	2.1
Cesium-137	pCi/L	04/17/2012	N002	275	- 335	-7.15	U	FQ	#	3.13	1.84
Chromium	mg/L	04/17/2012	N001	275	- 335	0.013		FQ	#	0.00051	
Cobalt-60	pCi/L	04/17/2012	N002	275	- 335	0.718	U	FQ	#	3.36	2.01
Dissolved Oxygen	mg/L	04/17/2012	N002	275	- 335	6.49		FQ	#		
Europium-152	pCi/L	04/17/2012	N002	275	- 335	-2.81	U	FQ	#	9.1	5.63
Europium-154	pCi/L	04/17/2012	N002	275	- 335	2.69	U	FQ	#	11.4	6.12
Europium-155	pCi/L	04/17/2012	N002	275	- 335	0.604	U	FQ	#	11.4	6.4
Lead	mg/L	04/17/2012	N001	275	- 335	0.0056		FQ	#	0.0000068	
Lead-212	pCi/L	04/17/2012	N002	275	- 335	6.39	U	FQ	#	7.09	8.11

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA2-2-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Mercury	mg/L	04/17/2012	N001	275	- 335	0.000014	B	UFQ	#	0.0000029	
Nickel	mg/L	04/17/2012	N001	275	- 335	0.00093	U	FQ	#	0.00093	
Oxidation Reduction Potential	mV	04/17/2012	N002	275	- 335	-168.9		FQ	#		
pH	s.u.	04/17/2012	N002	275	- 335	12.22		FQ	#		
Potassium-40	pCi/L	04/17/2012	N002	275	- 335	5.81	U	FQ	#	49.2	28.1
Promethium-144	pCi/L	04/17/2012	N002	275	- 335	-1.25	U	FQ	#	2.88	1.82
Promethium-146	pCi/L	04/17/2012	N002	275	- 335	1.04	U	FQ	#	4.32	2.38
Ruthenium-106	pCi/L	04/17/2012	N002	275	- 335	0.241	U	FQ	#	28.5	15.9
Selenium	mg/L	04/17/2012	N001	275	- 335	0.00028		FQ	#	0.000032	
Silver	mg/L	04/17/2012	N001	275	- 335	0.0011	U	FQ	#	0.0011	
Specific Conductance	umhos/cm	04/17/2012	N002	275	- 335	7303		FQ	#		
Temperature	C	04/17/2012	N002	275	- 335	19.98		FQ	#		
Thorium-234	pCi/L	04/17/2012	N002	275	- 335	-76.2	U	FQ	#	137	94
Tritium	pCi/L	04/17/2012	N002	275	- 335	0	U	FQ	#	225	114
Turbidity	NTU	04/17/2012	N002	275	- 335	0.41		FQ	#		
Uranium-235	pCi/L	04/17/2012	N002	275	- 335	7.56	U	FQ	#	19.2	16.4
Uranium-238	pCi/L	04/17/2012	N002	275	- 335	-76.2	U	FQ	#	137	94
Yttrium-88	pCi/L	04/17/2012	N002	275	- 335	0.733	U	FQ	#	4.14	2.12
Zinc	mg/L	04/17/2012	N001	275	- 335	0.0086	B	FQ	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA2-4-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Actinium-228	pCi/L	04/17/2012	N002	200	- 240	-5.4	U	F	#	13.7	8.97
Americium-241	pCi/L	04/17/2012	N002	200	- 240	-.915	U	F	#	21.6	13
Antimony	mg/L	04/17/2012	N001	200	- 240	0.00005		F	#	0.000012	
Antimony-125	pCi/L	04/17/2012	N002	200	- 240	-1.19	U	F	#	9.57	5.42
Arsenic	mg/L	04/17/2012	N001	200	- 240	0.0099		F	#	0.000015	
Barium	mg/L	04/17/2012	N001	200	- 240	0.1		F	#	0.00019	
Beryllium	mg/L	04/17/2012	N001	200	- 240	0.00018	U	F	#	0.00018	
Cadmium	mg/L	04/17/2012	N001	200	- 240	0.000012	U	F	#	0.000012	
Cerium-144	pCi/L	04/17/2012	N002	200	- 240	-10.1	U	F	#	24.3	15
Cesium-134	pCi/L	04/17/2012	N002	200	- 240	1.31	U	F	#	3.93	2.18
Cesium-137	pCi/L	04/17/2012	N002	200	- 240	4.43		FJ	#	3.82	2.72
Chromium	mg/L	04/17/2012	N001	200	- 240	0.00051	U	F	#	0.00051	
Cobalt-60	pCi/L	04/17/2012	N002	200	- 240	1.07	U	F	#	3.61	1.89
Dissolved Oxygen	mg/L	04/17/2012	N002	200	- 240	0.44		F	#		
Europium-152	pCi/L	04/17/2012	N002	200	- 240	-2.18	U	F	#	10.5	6.91
Europium-154	pCi/L	04/17/2012	N002	200	- 240	-3.13	U	F	#	8.08	4.98
Europium-155	pCi/L	04/17/2012	N002	200	- 240	-1.3	U	F	#	13.7	7.81
Lead	mg/L	04/17/2012	N001	200	- 240	0.000082		F	#	0.0000068	
Lead-212	pCi/L	04/17/2012	N002	200	- 240	0.565	U	F	#	8.21	5

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA2-4-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Mercury	mg/L	04/17/2012	N001	200	- 240	0.000011	B	UF	#	0.0000029	
Nickel	mg/L	04/17/2012	N001	200	- 240	0.00093	U	F	#	0.00093	
Oxidation Reduction Potential	mV	04/17/2012	N002	200	- 240	-91.8		F	#		
pH	s.u.	04/17/2012	N002	200	- 240	7.97		F	#		
Potassium-40	pCi/L	04/17/2012	N002	200	- 240	20.9	U	F	#	51.2	28.7
Promethium-144	pCi/L	04/17/2012	N002	200	- 240	0.456	U	F	#	3.29	1.82
Promethium-146	pCi/L	04/17/2012	N002	200	- 240	1.67	U	F	#	4.54	2.53
Ruthenium-106	pCi/L	04/17/2012	N002	200	- 240	-12.1	U	F	#	29.5	18.4
Selenium	mg/L	04/17/2012	N001	200	- 240	0.000032	U	F	#	0.000032	
Silver	mg/L	04/17/2012	N001	200	- 240	0.0011	U	F	#	0.0011	
Specific Conductance	umhos /cm	04/17/2012	N002	200	- 240	285		F	#		
Temperature	C	04/17/2012	N002	200	- 240	20.25		F	#		
Thorium-234	pCi/L	04/17/2012	N002	200	- 240	-82.7	U	F	#	205	133
Tritium	pCi/L	04/17/2012	N002	200	- 240	-33.9	U	F	#	221	106
Turbidity	NTU	04/17/2012	N002	200	- 240	0.55		F	#		
Uranium-235	pCi/L	04/17/2012	N002	200	- 240	1.67	U	F	#	26.3	18.2
Uranium-238	pCi/L	04/17/2012	N002	200	- 240	-82.7	U	F	#	205	133
Yttrium-88	pCi/L	04/17/2012	N002	200	- 240	1.7	U	F	#	4.35	2.19
Zinc	mg/L	04/17/2012	N001	200	- 240	0.00072	U	F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA3-11-3 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Actinium-228	pCi/L	04/17/2012	N001	736	- 839.5	- .804	U	F	#	13	7.65
Americium-241	pCi/L	04/17/2012	N001	736	- 839.5	1.16	U	F	#	14.6	9.1
Antimony-125	pCi/L	04/17/2012	N001	736	- 839.5	2.54	U	F	#	8.3	4.57
Cerium-144	pCi/L	04/17/2012	N001	736	- 839.5	-.728	U	F	#	20.6	12.1
Cesium-134	pCi/L	04/17/2012	N001	736	- 839.5	0.198	U	F	#	3.62	1.94
Cesium-137	pCi/L	04/17/2012	N001	736	- 839.5	0.248	U	F	#	3.23	1.8
Cobalt-60	pCi/L	04/17/2012	N001	736	- 839.5	0.557	U	F	#	3.27	1.7
Dissolved Oxygen	mg/L	04/17/2012	N001	736	- 839.5	0.25		F	#		
Europium-152	pCi/L	04/17/2012	N001	736	- 839.5	1.22	U	F	#	9.21	5.07
Europium-154	pCi/L	04/17/2012	N001	736	- 839.5	1.24	U	F	#	8.63	4.47
Europium-155	pCi/L	04/17/2012	N001	736	- 839.5	-.311	U	F	#	11	6.38
Lead-212	pCi/L	04/17/2012	N001	736	- 839.5	4.79	U	F	#	6.68	5.44
Oxidation Reduction Potential	mV	04/17/2012	N001	736	- 839.5	-296.2		F	#		
pH	s.u.	04/17/2012	N001	736	- 839.5	7.35		F	#		
Potassium-40	pCi/L	04/17/2012	N001	736	- 839.5	-8.73	U	F	#	44	24.5
Promethium-144	pCi/L	04/17/2012	N001	736	- 839.5	0.33	U	F	#	2.92	1.54
Promethium-146	pCi/L	04/17/2012	N001	736	- 839.5	0.629	U	F	#	3.67	2.01
Ruthenium-106	pCi/L	04/17/2012	N001	736	- 839.5	1.18	U	F	#	27.9	15.7
Specific Conductance	umhos /cm	04/17/2012	N001	736	- 839.5	5247		F	#		

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**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA3-11-3 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Temperature	C	04/17/2012	N001	736	- 839.5	21.23		F	#		
Thorium-234	pCi/L	04/17/2012	N001	736	- 839.5	110	U	F	#	154	120
Tritium	pCi/L	04/17/2012	N001	736	- 839.5	75.6	U	F	#	216	124
Turbidity	NTU	04/17/2012	N001	736	- 839.5	1.55		F	#		
Uranium-235	pCi/L	04/17/2012	N001	736	- 839.5	0.1	U	F	#	20.6	13.4
Uranium-238	pCi/L	04/17/2012	N001	736	- 839.5	110	U	F	#	154	120
Yttrium-88	pCi/L	04/17/2012	N001	736	- 839.5	0.302	U	F	#	3.85	1.96

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**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA3-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,1,2-Tetrachloroethane	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,1,2-Trichloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1,2-Trichloroethane	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.49	U	F	#	0.49	
1,2,3-Trichlorobenzene	ug/L	04/18/2012	N002	10 - 29.5	0.49	U	F	#	0.49	
1,2,3-Trichloropropane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA3-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,2,3-Trichloropropane	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.36	U	F	#	0.36	
1,2,4-Trichlorobenzene	ug/L	04/18/2012	N002	10 - 29.5	0.36	U	F	#	0.36	
1,2,4-Trimethylbenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2,4-Trimethylbenzene	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	04/18/2012	N001	10 - 29.5	0.73	U	F	#	0.73	
1,2-Dibromo-3-chloropropane	ug/L	04/18/2012	N002	10 - 29.5	0.73	U	F	#	0.73	
1,2-Dibromoethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dibromoethane	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA3-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,3-Dichloropropane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,3-Dichloropropane	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
1-Chlorohexane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
1-Chlorohexane	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
2-Butanone	ug/L	04/18/2012	N001	10 - 29.5	3	U	F	#	3	
2-Butanone	ug/L	04/18/2012	N002	10 - 29.5	3	U	F	#	3	
2-Chlorotoluene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
2-Chlorotoluene	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
2-Hexanone	ug/L	04/18/2012	N001	10 - 29.5	3	U	F	#	3	
2-Hexanone	ug/L	04/18/2012	N002	10 - 29.5	3	U	F	#	3	
4-Chlorotoluene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
4-Chlorotoluene	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	04/18/2012	N001	10 - 29.5	3	U	F	#	3	
4-Methyl-2-Pentanone	ug/L	04/18/2012	N002	10 - 29.5	3	U	F	#	3	
Acetone	ug/L	04/18/2012	N001	10 - 29.5	6.4	U	F	#	6.4	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA3-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Acetone	ug/L	04/18/2012	N002	10	- 29.5	6.4	U	F	#	6.4	
Antimony	mg/L	04/18/2012	N001	10	- 29.5	0.000012	U	F	#	0.000012	
Antimony	mg/L	04/18/2012	N002	10	- 29.5	0.000012	U	F	#	0.000012	
Arsenic	mg/L	04/18/2012	N001	10	- 29.5	0.000075	B	JF	#	0.000015	
Arsenic	mg/L	04/18/2012	N002	10	- 29.5	0.000093	B	UF	#	0.000015	
Barium	mg/L	04/18/2012	N001	10	- 29.5	0.27		F	#	0.00019	
Barium	mg/L	04/18/2012	N002	10	- 29.5	0.27		F	#	0.00019	
Benzene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Benzene	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Beryllium	mg/L	04/18/2012	N001	10	- 29.5	0.00018	U	F	#	0.00018	
Beryllium	mg/L	04/18/2012	N002	10	- 29.5	0.00018	U	F	#	0.00018	
Bromobenzene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Bromobenzene	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Bromoform	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Bromoform	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA3-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Bromomethane	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Bromomethane	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Cadmium	mg/L	04/18/2012	N001	10	- 29.5	0.000024	B	F	#	0.000012	
Cadmium	mg/L	04/18/2012	N002	10	- 29.5	0.000033		F	#	0.000012	
Carbon Disulfide	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Carbon Disulfide	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Carbon tetrachloride	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Carbon tetrachloride	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Chlorobenzene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Chlorobenzene	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Chloroethane	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Chloroethane	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Chloroform	ug/L	04/18/2012	N001	10	- 29.5	0.2	U	F	#	0.2	
Chloroform	ug/L	04/18/2012	N002	10	- 29.5	0.2	U	F	#	0.2	
Chloromethane	ug/L	04/18/2012	N001	10	- 29.5	0.33	U	F	#	0.33	
Chloromethane	ug/L	04/18/2012	N002	10	- 29.5	0.33	U	F	#	0.33	
Chromium	mg/L	04/18/2012	N001	10	- 29.5	0.00051	U	F	#	0.00051	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA3-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Chromium	mg/L	04/18/2012	N002	10	- 29.5	0.00051	U	F	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
cis-1,2-Dichloroethene	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
cis-1,3-Dichloropropene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
cis-1,3-Dichloropropene	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Dibromomethane	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Dibromomethane	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Ethylbenzene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Ethylbenzene	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Iodomethane	ug/L	04/18/2012	N001	10	- 29.5	0.35	U	F	#	0.35	
Iodomethane	ug/L	04/18/2012	N002	10	- 29.5	0.35	U	F	#	0.35	
Isopropylbenzene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Isopropylbenzene	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Lead	mg/L	04/18/2012	N001	10	- 29.5	0.0000068	U	F	#	0.0000068	
Lead	mg/L	04/18/2012	N002	10	- 29.5	0.000024	B	F	#	0.0000068	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA3-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
m,p-Xylene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
m,p-Xylene	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Mercury	mg/L	04/18/2012	N001	10 - 29.5	0.0000039	B	UF	#	0.0000029	
Mercury	mg/L	04/18/2012	N002	10 - 29.5	0.0000029	U	F	#	0.0000029	
Methylene chloride	ug/L	04/18/2012	N001	10 - 29.5	0.32	U	F	#	0.32	
Methylene chloride	ug/L	04/18/2012	N002	10 - 29.5	0.32	U	F	#	0.32	
n-Butylbenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
n-Butylbenzene	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
n-Propylbenzene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
n-Propylbenzene	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Naphthalene	ug/L	04/18/2012	N001	10 - 29.5	0.42	U	F	#	0.42	
Naphthalene	ug/L	04/18/2012	N002	10 - 29.5	0.42	U	F	#	0.42	
Nickel	mg/L	04/18/2012	N001	10 - 29.5	0.00093	U	F	#	0.00093	
Nickel	mg/L	04/18/2012	N002	10 - 29.5	0.00093	U	F	#	0.00093	
o-Xylene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
o-Xylene	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
p-Isopropyltoluene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
p-Isopropyltoluene	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
pH	s.u.	04/18/2012	N003	10 - 29.5	6.06		FJ	#		

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA3-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Propane, 2-methoxy-2-methyl-	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Propane, 2-methoxy-2-methyl-	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Selenium	mg/L	04/18/2012	N001	10	- 29.5	0.000053	B	F	#	0.000032	
Selenium	mg/L	04/18/2012	N002	10	- 29.5	0.000032	U	F	#	0.000032	
Silver	mg/L	04/18/2012	N001	10	- 29.5	0.0011	U	F	#	0.0011	
Silver	mg/L	04/18/2012	N002	10	- 29.5	0.0011	U	F	#	0.0011	
Specific Conductance	umhos/cm	04/18/2012	N003	10	- 29.5	358		F	#		
Styrene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Styrene	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Temperature	C	04/18/2012	N003	10	- 29.5	19.97		F	#		
tert-Butylbenzene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
tert-Butylbenzene	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	04/18/2012	N001	10	- 29.5	0.19	U	F	#	0.19	
Tetrachloroethene	ug/L	04/18/2012	N002	10	- 29.5	0.19	U	F	#	0.19	
Toluene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	
Toluene	ug/L	04/18/2012	N002	10	- 29.5	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	04/18/2012	N001	10	- 29.5	0.3	U	F	#	0.3	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA3-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
trans-1,2-Dichloroethene	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
trans-1,3-dichloropropene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
trans-1,3-dichloropropene	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Trichloroethene	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Trichloroethene	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Trichlorofluoromethane	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Trichlorofluoromethane	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Tritium	pCi/L	04/18/2012	N003	10 - 29.5	-19	U	F	#	358	177
Turbidity	NTU	04/18/2012	N003	10 - 29.5	0.39		F	#		
Vinyl Acetate	ug/L	04/18/2012	N001	10 - 29.5	0.8	U	F	#	0.8	
Vinyl Acetate	ug/L	04/18/2012	N002	10 - 29.5	0.8	U	F	#	0.8	
Vinyl chloride	ug/L	04/18/2012	N001	10 - 29.5	0.3	U	F	#	0.3	
Vinyl chloride	ug/L	04/18/2012	N002	10 - 29.5	0.3	U	F	#	0.3	
Zinc	mg/L	04/18/2012	N001	10 - 29.5	0.00072	U	F	#	0.00072	
Zinc	mg/L	04/18/2012	N002	10 - 29.5	0.00072	U	F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA4-5-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Actinium-228	pCi/L	04/16/2012	N002	160	- 170	6.35	U	FQ	#	17	10.8
Americium-241	pCi/L	04/16/2012	N002	160	- 170	11	U	FQ	#	35.2	20.9
Antimony	mg/L	04/16/2012	N001	160	- 170	0.00018		FQ	#	0.000012	
Antimony-125	pCi/L	04/16/2012	N002	160	- 170	3.38	U	FQ	#	9.8	5.44
Arsenic	mg/L	04/16/2012	N001	160	- 170	0.00021		JFQ	#	0.000015	
Barium	mg/L	04/16/2012	N001	160	- 170	2.6		FQ	#	0.00019	
Beryllium	mg/L	04/16/2012	N001	160	- 170	0.00018	U	FQ	#	0.00018	
Cadmium	mg/L	04/16/2012	N001	160	- 170	0.000039		FQ	#	0.000012	
Cerium-144	pCi/L	04/16/2012	N002	160	- 170	-4.02	U	FQ	#	26.8	16.2
Cesium-134	pCi/L	04/16/2012	N002	160	- 170	1.37	U	FQ	#	4.21	2.27
Cesium-137	pCi/L	04/16/2012	N002	160	- 170	-0.177	U	FQ	#	3.72	2.03
Chromium	mg/L	04/16/2012	N001	160	- 170	0.049		FQ	#	0.00051	
Cobalt-60	pCi/L	04/16/2012	N002	160	- 170	0.647	U	FQ	#	4.13	2.14
Dissolved Oxygen	mg/L	04/16/2012	N002	160	- 170	7.24		FQ	#		
Europium-152	pCi/L	04/16/2012	N002	160	- 170	-2.37	U	FQ	#	11.1	6.44
Europium-154	pCi/L	04/16/2012	N002	160	- 170	0.363	U	FQ	#	10	5.22
Europium-155	pCi/L	04/16/2012	N002	160	- 170	2.28	U	FQ	#	14.9	8.41
Lead	mg/L	04/16/2012	N001	160	- 170	0.0051		FQ	#	0.0000068	
Lead-212	pCi/L	04/16/2012	N002	160	- 170	4.04	U	FQ	#	8	6.54

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA4-5-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Mercury	mg/L	04/16/2012	N001	160	- 170	0.0000075	B	UFQ	#	0.0000029	
Nickel	mg/L	04/16/2012	N001	160	- 170	0.00093	U	FQ	#	0.00093	
Oxidation Reduction Potential	mV	04/16/2012	N002	160	- 170	-73.4		FQ	#		
pH	s.u.	04/16/2012	N002	160	- 170	12.14		FQ	#		
Potassium-40	pCi/L	04/16/2012	N002	160	- 170	61.1		FQJ	#	31.3	36.9
Promethium-144	pCi/L	04/16/2012	N002	160	- 170	-1.05	U	FQ	#	3.47	2.05
Promethium-146	pCi/L	04/16/2012	N002	160	- 170	-1.1	U	FQ	#	4.62	2.73
Ruthenium-106	pCi/L	04/16/2012	N002	160	- 170	12.8	U	FQ	#	33.1	17.8
Selenium	mg/L	04/16/2012	N001	160	- 170	0.0002		FQ	#	0.000032	
Silver	mg/L	04/16/2012	N001	160	- 170	0.0011	U	FQ	#	0.0011	
Specific Conductance	umhos/cm	04/16/2012	N002	160	- 170	6796		FQ	#		
Temperature	C	04/16/2012	N002	160	- 170	20.13		FQ	#		
Thorium-234	pCi/L	04/16/2012	N002	160	- 170	20.7	U	FQ	#	287	188
Tritium	pCi/L	04/16/2012	N002	160	- 170	-53.3	U	FQ	#	351	167
Turbidity	NTU	04/16/2012	N002	160	- 170	0.35		FQ	#		
Uranium-235	pCi/L	04/16/2012	N002	160	- 170	-14.1	U	FQ	#	24.3	18.1
Uranium-238	pCi/L	04/16/2012	N002	160	- 170	20.7	U	FQ	#	287	188
Yttrium-88	pCi/L	04/16/2012	N002	160	- 170	0.359	U	FQ	#	4.33	2.17
Zinc	mg/L	04/16/2012	N001	160	- 170	0.19		FQ	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA5-4-4 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Actinium-228	pCi/L	04/16/2012	N001	1798.5 - 2078.4	4.02	U		#	12.8	6.84
Actinium-228	pCi/L	04/16/2012	N002	1798.5 - 2078.4	-3.41	U		#	14.2	8.9
Americium-241	pCi/L	04/16/2012	N001	1798.5 - 2078.4	1.42	U		#	12.3	7.96
Americium-241	pCi/L	04/16/2012	N002	1798.5 - 2078.4	-2.42	U		#	12.2	8.3
Antimony-125	pCi/L	04/16/2012	N001	1798.5 - 2078.4	2.24	U		#	8.09	4.51
Antimony-125	pCi/L	04/16/2012	N002	1798.5 - 2078.4	1.4	U		#	8.62	4.71
Cerium-144	pCi/L	04/16/2012	N001	1798.5 - 2078.4	4.02	U		#	20.3	12.1
Cerium-144	pCi/L	04/16/2012	N002	1798.5 - 2078.4	-4.62	U		#	21.4	12.5
Cesium-134	pCi/L	04/16/2012	N001	1798.5 - 2078.4	-1.15	U		#	3.14	1.91
Cesium-134	pCi/L	04/16/2012	N002	1798.5 - 2078.4	0.345	U		#	3.58	1.98
Cesium-137	pCi/L	04/16/2012	N001	1798.5 - 2078.4	0.208	U		#	3.09	1.65
Cesium-137	pCi/L	04/16/2012	N002	1798.5 - 2078.4	-613	U		#	3.3	1.92
Cobalt-60	pCi/L	04/16/2012	N001	1798.5 - 2078.4	1.4	U		#	3.68	1.88
Cobalt-60	pCi/L	04/16/2012	N002	1798.5 - 2078.4	0.407	U		#	3.54	1.88
Enriched Tritium	pCi/L	04/16/2012	N001	1798.5 - 2078.4	2.48		J	#	2.25	1.57
Europium-152	pCi/L	04/16/2012	N001	1798.5 - 2078.4	1.51	U		#	9.42	5.31
Europium-152	pCi/L	04/16/2012	N002	1798.5 - 2078.4	6.39	U		#	9.82	6.05
Europium-154	pCi/L	04/16/2012	N001	1798.5 - 2078.4	-2.7	U		#	7.84	4.61
Europium-154	pCi/L	04/16/2012	N002	1798.5 - 2078.4	0.404	U		#	9.4	5.04

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA5-4-4 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Europium-155	pCi/L	04/16/2012	N001	1798.5 - 2078.4	1.44	U		#	10.5	5.82
Europium-155	pCi/L	04/16/2012	N002	1798.5 - 2078.4	-.356	U		#	11.4	6.39
Lead-212	pCi/L	04/16/2012	N001	1798.5 - 2078.4	0.733	U		#	6.38	4
Lead-212	pCi/L	04/16/2012	N002	1798.5 - 2078.4	2.51	U		#	7.09	6.07
pH	s.u.	04/16/2012	N001	1798.5 - 2078.4	8.43			#		
Potassium-40	pCi/L	04/16/2012	N001	1798.5 - 2078.4	-25.6	U		#	34.5	24.6
Potassium-40	pCi/L	04/16/2012	N002	1798.5 - 2078.4	0.759	U		#	46.9	27.1
Promethium-144	pCi/L	04/16/2012	N001	1798.5 - 2078.4	1.19	U		#	3.08	1.66
Promethium-144	pCi/L	04/16/2012	N002	1798.5 - 2078.4	0.942	U		#	3.24	1.8
Promethium-146	pCi/L	04/16/2012	N001	1798.5 - 2078.4	-1.15	U		#	3.34	2.07
Promethium-146	pCi/L	04/16/2012	N002	1798.5 - 2078.4	0.0384	U		#	4.13	2.29
Ruthenium-106	pCi/L	04/16/2012	N001	1798.5 - 2078.4	7.66	U		#	28.3	15.1
Ruthenium-106	pCi/L	04/16/2012	N002	1798.5 - 2078.4	-9.6	U		#	29.5	17.9
Specific Conductance	umhos/cm	04/16/2012	N001	1798.5 - 2078.4	6645			#		
Temperature	C	04/16/2012	N001	1798.5 - 2078.4	26.09			#		
Thorium-234	pCi/L	04/16/2012	N001	1798.5 - 2078.4	32.6	U		#	111	90.8
Thorium-234	pCi/L	04/16/2012	N002	1798.5 - 2078.4	38.3	U		#	136	97.9
Tritium	pCi/L	04/16/2012	N001	1798.5 - 2078.4	-192	U		#	350	192
Tritium	pCi/L	04/16/2012	N002	1798.5 - 2078.4	108	U		#	355	209

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA5-4-4 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Turbidity	NTU	04/16/2012	N001	1798.5 - 2078.4	6.05			#		
Uranium-235	pCi/L	04/16/2012	N001	1798.5 - 2078.4	0.29	U		#	20.4	13.9
Uranium-235	pCi/L	04/16/2012	N002	1798.5 - 2078.4	10.3	U		#	22.7	16
Uranium-238	pCi/L	04/16/2012	N001	1798.5 - 2078.4	32.6	U		#	111	90.8
Uranium-238	pCi/L	04/16/2012	N002	1798.5 - 2078.4	38.3	U		#	136	97.9
Yttrium-88	pCi/L	04/16/2012	N001	1798.5 - 2078.4	0.395	U		#	3.46	1.7
Yttrium-88	pCi/L	04/16/2012	N002	1798.5 - 2078.4	-.285	U		#	4.08	2.2

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA5-5-4 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Actinium-228	pCi/L	04/17/2012	N001	1799.5 - 2040.1	-4.92	U		#	12.4	8.72
Americium-241	pCi/L	04/17/2012	N001	1799.5 - 2040.1	-2.49	U		#	11.2	7.37
Antimony-125	pCi/L	04/17/2012	N001	1799.5 - 2040.1	-0.255	U		#	7.51	4.23
Cerium-144	pCi/L	04/17/2012	N001	1799.5 - 2040.1	-6.99	U		#	20.5	12.8
Cesium-134	pCi/L	04/17/2012	N001	1799.5 - 2040.1	-1.64	U		#	2.67	1.78
Cesium-137	pCi/L	04/17/2012	N001	1799.5 - 2040.1	1.94	U		#	3.4	1.9
Cobalt-60	pCi/L	04/17/2012	N001	1799.5 - 2040.1	-1.03	U		#	4.01	2.35
Enriched Tritium	pCi/L	04/17/2012	N001	1799.5 - 2040.1	0.706	U		#	2.28	1.34
Europium-152	pCi/L	04/17/2012	N001	1799.5 - 2040.1	2.74	U		#	9.28	5.18
Europium-154	pCi/L	04/17/2012	N001	1799.5 - 2040.1	2.69	U		#	9.11	4.73
Europium-155	pCi/L	04/17/2012	N001	1799.5 - 2040.1	4.05	U		#	10.5	6.18
Lead-212	pCi/L	04/17/2012	N001	1799.5 - 2040.1	4.45	U		#	6.52	4.96
pH	s.u.	04/17/2012	N001	1799.5 - 2040.1	8.52			#		
Potassium-40	pCi/L	04/17/2012	N001	1799.5 - 2040.1	-0.3	U		#	46.1	24.8
Promethium-144	pCi/L	04/17/2012	N001	1799.5 - 2040.1	0.378	U		#	2.85	1.52
Promethium-146	pCi/L	04/17/2012	N001	1799.5 - 2040.1	1.32	U		#	3.83	2.14
Ruthenium-106	pCi/L	04/17/2012	N001	1799.5 - 2040.1	21.3	U		#	29.3	17.6
Specific Conductance	umhos/cm	04/17/2012	N001	1799.5 - 2040.1	4252			#		
Temperature	C	04/17/2012	N001	1799.5 - 2040.1	27.07			#		

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: SA5-5-4 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Thorium-234	pCi/L	04/17/2012	N001	1799.5 - 2040.1	16.2	U		#	114	83.1
Tritium	pCi/L	04/17/2012	N001	1799.5 - 2040.1	76.6	U		#	359	209
Turbidity	NTU	04/17/2012	N001	1799.5 - 2040.1	0.48			#		
Uranium-235	pCi/L	04/17/2012	N001	1799.5 - 2040.1	5.32	U		#	20.8	13.7
Uranium-238	pCi/L	04/17/2012	N001	1799.5 - 2040.1	16.2	U		#	114	83.1
Yttrium-88	pCi/L	04/17/2012	N001	1799.5 - 2040.1	-1.36	U		#	3.13	1.96

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

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: 10/3/2012

Location: Grantham Ck Entry SURFACE LOCATION

Parameter	Units	Sample		Result	Qualifiers		Detection Limit	Uncertainty
		Date	ID		Lab	Data QA		
Actinium-228	pCi/L	04/18/2012	N002	10.3	U	#	17.8	11.5
Americium-241	pCi/L	04/18/2012	N002	1.66	U	#	34.4	20.4
Antimony	mg/L	04/18/2012	N001	0.000016	B	#	0.000012	
Antimony-125	pCi/L	04/18/2012	N002	-1.36	U	#	9.69	5.57
Arsenic	mg/L	04/18/2012	N001	0.00041		#	0.000015	
Barium	mg/L	04/18/2012	N001	0.034		#	0.00019	
Beryllium	mg/L	04/18/2012	N001	0.00018	U	#	0.00018	
Cadmium	mg/L	04/18/2012	N001	0.000012	B	#	0.000012	
Cerium-144	pCi/L	04/18/2012	N002	-9.33	U	#	24.4	15.6
Cesium-134	pCi/L	04/18/2012	N002	0.655	U	#	3.84	2.04
Cesium-137	pCi/L	04/18/2012	N002	0.556	U	#	3.62	1.93
Chromium	mg/L	04/18/2012	N001	0.00051	U	#	0.00051	
Cobalt-60	pCi/L	04/18/2012	N002	0.158	U	#	3.9	2.06
Europium-152	pCi/L	04/18/2012	N002	0.318	U	#	11.5	6.39
Europium-154	pCi/L	04/18/2012	N002	-2.47	U	#	8.92	5.15
Europium-155	pCi/L	04/18/2012	N002	3.56	U	#	15.2	8.62
Lead	mg/L	04/18/2012	N001	0.00028		#	0.0000068	
Lead-212	pCi/L	04/18/2012	N002	3.23	U	#	7.9	6.5

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: Grantham Ck Entry SURFACE LOCATION

Parameter	Units	Sample		Result	Qualifiers		Detection Limit	Uncertainty
		Date	ID		Lab	Data QA		
Mercury	mg/L	04/18/2012	N001	0.0000029	U	#	0.0000029	
Nickel	mg/L	04/18/2012	N001	0.00093	U	#	0.00093	
pH	s.u.	04/18/2012	N002	5.5		#		
Potassium-40	pCi/L	04/18/2012	N002	-9.8	U	#	50.7	31
Promethium-144	pCi/L	04/18/2012	N002	0.696	U	#	3.55	1.91
Promethium-146	pCi/L	04/18/2012	N002	-.798	U	#	4.43	2.58
Ruthenium-106	pCi/L	04/18/2012	N002	-.939	U	#	33.3	18.2
Selenium	mg/L	04/18/2012	N001	0.00013		#	0.000032	
Silver	mg/L	04/18/2012	N001	0.0011	U	#	0.0011	
Specific Conductance	umhos/cm	04/18/2012	N002	23		#		
Temperature	C	04/18/2012	N002	17.37		#		
Thorium-234	pCi/L	04/18/2012	N002	9.43	U	#	286	188
Tritium	pCi/L	04/18/2012	N002	0	U	#	361	207
Turbidity	NTU	04/18/2012	N002	3.54		#		
Uranium-235	pCi/L	04/18/2012	N002	0	UI	#	26.2	37.2
Uranium-238	pCi/L	04/18/2012	N002	9.43	U	#	286	188
Yttrium-88	pCi/L	04/18/2012	N002	0.78	U	#	4.31	2.11
Zinc	mg/L	04/18/2012	N001	0.00072	U	#	0.00072	

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HALFMOON CREEK SURFACE LOCATION

Parameter	Units	Sample		Result	Qualifiers		Detection Limit	Uncertainty
		Date	ID		Lab	Data QA		
Actinium-228	pCi/L	04/18/2012	N002	3.09	U	#	15.1	8.82
Americium-241	pCi/L	04/18/2012	N002	4.13	U	#	14.2	9
Antimony	mg/L	04/18/2012	N001	0.000022	B	#	0.000012	
Antimony-125	pCi/L	04/18/2012	N002	2.39	U	#	8.59	4.65
Arsenic	mg/L	04/18/2012	N001	0.00041		#	0.000015	
Barium	mg/L	04/18/2012	N001	0.042		#	0.00019	
Beryllium	mg/L	04/18/2012	N001	0.00018	U	#	0.00018	
Cadmium	mg/L	04/18/2012	N001	0.000027	B	#	0.000012	
Cerium-144	pCi/L	04/18/2012	N002	2.43	U	#	19.7	11
Cesium-134	pCi/L	04/18/2012	N002	1.28	U	#	3.57	1.86
Cesium-137	pCi/L	04/18/2012	N002	-.197	U	#	3.2	1.81
Chromium	mg/L	04/18/2012	N001	0.00051	U	#	0.00051	
Cobalt-60	pCi/L	04/18/2012	N002	0.245	U	#	3.62	1.93
Europium-152	pCi/L	04/18/2012	N002	3.63	U	#	9.49	5.21
Europium-154	pCi/L	04/18/2012	N002	0.394	U	#	8.6	4.49
Europium-155	pCi/L	04/18/2012	N002	-1.49	U	#	10.9	6.13
Lead	mg/L	04/18/2012	N001	0.00039		#	0.0000068	
Lead-212	pCi/L	04/18/2012	N002	2.53	U	#	6.81	5.03

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HALFMOON CREEK SURFACE LOCATION

Parameter	Units	Sample		Result	Qualifiers			Detection Limit	Uncertainty
		Date	ID		Lab	Data	QA		
Mercury	mg/L	04/18/2012	N001	0.000018	B		#	0.0000029	
Nickel	mg/L	04/18/2012	N001	0.00093	U		#	0.00093	
pH	s.u.	04/18/2012	N002	5.18			#		
Potassium-40	pCi/L	04/18/2012	N002	-3.89	U		#	45.5	24.9
Promethium-144	pCi/L	04/18/2012	N002	1.54	U		#	3.21	1.79
Promethium-146	pCi/L	04/18/2012	N002	-.524	U		#	3.58	2.02
Ruthenium-106	pCi/L	04/18/2012	N002	-.15	U		#	24.7	13.6
Selenium	mg/L	04/18/2012	N001	0.00013			#	0.000032	
Silver	mg/L	04/18/2012	N001	0.0011	U		#	0.0011	
Specific Conductance	umhos/cm	04/18/2012	N002	27			#		
Temperature	C	04/18/2012	N002	17.41			#		
Thorium-234	pCi/L	04/18/2012	N002	102	U		#	166	121
Tritium	pCi/L	04/18/2012	N002	-141	U		#	356	198
Turbidity	NTU	04/18/2012	N002	5.66			#		
Uranium-235	pCi/L	04/18/2012	N002	7.87	U		#	21	14.1
Uranium-238	pCi/L	04/18/2012	N002	102	U		#	166	121
Yttrium-88	pCi/L	04/18/2012	N002	-.624	U		#	3.2	1.77
Zinc	mg/L	04/18/2012	N001	0.0011	B	J	#	0.00072	

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HALFMOONCRKOVERFLOW SURFACE LOCATION

Parameter	Units	Sample		Result	Qualifiers		Detection Limit	Uncertainty
		Date	ID		Lab	Data QA		
Actinium-228	pCi/L	04/18/2012	N001	0.472	U	#	15.8	9.61
Americium-241	pCi/L	04/18/2012	N001	3.81	U	#	31.2	20
Antimony	mg/L	04/18/2012	0001	0.000068		#	0.000012	
Antimony-125	pCi/L	04/18/2012	N001	-1.4	U	#	10.1	5.88
Arsenic	mg/L	04/18/2012	0001	0.0014		#	0.000015	
Barium	mg/L	04/18/2012	0001	0.096		#	0.00019	
Beryllium	mg/L	04/18/2012	0001	0.00018	U	#	0.00018	
Cadmium	mg/L	04/18/2012	0001	0.000034		#	0.000012	
Cerium-144	pCi/L	04/18/2012	N001	5.49	U	#	24.9	14.7
Cesium-134	pCi/L	04/18/2012	N001	0.00803	U	#	4.35	2.38
Cesium-137	pCi/L	04/18/2012	N001	-.112	U	#	3.33	1.8
Chromium	mg/L	04/18/2012	0001	0.0034	B	#	0.00051	
Cobalt-60	pCi/L	04/18/2012	N001	1.24	U	#	4.06	2.02
Europium-152	pCi/L	04/18/2012	N001	-1.23	U	#	11.2	6.46
Europium-154	pCi/L	04/18/2012	N001	-6.7	U	#	8.53	6.25
Europium-155	pCi/L	04/18/2012	N001	0.825	U	#	14.1	8.27
Lead	mg/L	04/18/2012	0001	0.00042		#	0.0000068	
Lead-212	pCi/L	04/18/2012	N001	3.57	U	#	8.01	5.55

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HALFMOONCRKOVERFLOW SURFACE LOCATION

Parameter	Units	Sample		Result	Qualifiers			Detection Limit	Uncertainty
		Date	ID		Lab	Data	QA		
Mercury	mg/L	04/18/2012	0001	0.0000029	U		#	0.0000029	
Nickel	mg/L	04/18/2012	0001	0.00093	U		#	0.00093	
pH	s.u.	04/18/2012	N001	5.64			#		
Potassium-40	pCi/L	04/18/2012	N001	3.7	U		#	49.2	28.1
Promethium-144	pCi/L	04/18/2012	N001	0.178	U		#	3.14	1.68
Promethium-146	pCi/L	04/18/2012	N001	-1.32	U		#	4.47	2.73
Ruthenium-106	pCi/L	04/18/2012	N001	2.48	U		#	32	17.1
Selenium	mg/L	04/18/2012	0001	0.00022			#	0.000032	
Silver	mg/L	04/18/2012	0001	0.0011	U		#	0.0011	
Specific Conductance	umhos/cm	04/18/2012	N001	49.2			#		
Temperature	C	04/18/2012	N001	21.04			#		
Thorium-234	pCi/L	04/18/2012	N001	247	U		#	308	237
Tritium	pCi/L	04/18/2012	N001	-87.6	U		#	360	202
Turbidity	NTU	04/18/2012	N001	12			#		
Uranium-235	pCi/L	04/18/2012	N001	-8.59	U		#	26.7	18.2
Uranium-238	pCi/L	04/18/2012	N001	247	U		#	308	237
Yttrium-88	pCi/L	04/18/2012	N001	-1.76	U		#	4.74	2.91
Zinc	mg/L	04/18/2012	0001	0.0024	B	J	#	0.00072	

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: Half Moon Ck Entry SURFACE LOCATION Half Moon Creek Entry

Parameter	Units	Sample		Result	Qualifiers		Detection Limit	Uncertainty
		Date	ID		Lab	Data QA		
Actinium-228	pCi/L	04/17/2012	N002	7.51	U	#	21.5	10.9
Americium-241	pCi/L	04/17/2012	N002	-5.23	U	#	16.3	9.17
Antimony	mg/L	04/17/2012	N001	0.000022	B	#	0.000012	
Antimony-125	pCi/L	04/17/2012	N002	2.85	U	#	12.7	6.98
Arsenic	mg/L	04/17/2012	N001	0.00036		#	0.000015	
Barium	mg/L	04/17/2012	N001	0.048		#	0.00019	
Beryllium	mg/L	04/17/2012	N001	0.00018	U	#	0.00018	
Cadmium	mg/L	04/17/2012	N001	0.000025	B	#	0.000012	
Cerium-144	pCi/L	04/17/2012	N002	15.6	U	#	26.9	16.5
Cesium-134	pCi/L	04/17/2012	N002	-1.42	U	#	5.13	3.04
Cesium-137	pCi/L	04/17/2012	N002	0.539	U	#	5.5	2.94
Chromium	mg/L	04/17/2012	N001	0.00061	B	#	0.00051	
Cobalt-60	pCi/L	04/17/2012	N002	0.529	U	#	5.03	2.48
Europium-152	pCi/L	04/17/2012	N002	2.74	U	#	14.1	7.79
Europium-154	pCi/L	04/17/2012	N002	4.04	U	#	16.3	8.07
Europium-155	pCi/L	04/17/2012	N002	-5.6	U	#	12.8	8.11
Lead	mg/L	04/17/2012	N001	0.00052		#	0.0000068	
Lead-212	pCi/L	04/17/2012	N002	-2.78	U	#	9.37	6.28

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: Half Moon Ck Entry SURFACE LOCATION Half Moon Creek Entry

Parameter	Units	Sample		Result	Qualifiers			Detection Limit	Uncertainty
		Date	ID		Lab	Data	QA		
Mercury	mg/L	04/17/2012	N001	0.0000029	U		#	0.0000029	
Nickel	mg/L	04/17/2012	N001	0.00093	U		#	0.00093	
pH	s.u.	04/17/2012	N002	3.98			#		
Potassium-40	pCi/L	04/17/2012	N002	20	U		#	60.5	29.8
Promethium-144	pCi/L	04/17/2012	N002	1.04	U		#	4.93	2.6
Promethium-146	pCi/L	04/17/2012	N002	0.266	U		#	5.25	2.9
Ruthenium-106	pCi/L	04/17/2012	N002	28.6	U		#	51	28.1
Selenium	mg/L	04/17/2012	N001	0.00016			#	0.000032	
Silver	mg/L	04/17/2012	N001	0.0011	U		#	0.0011	
Specific Conductance	umhos/cm	04/17/2012	N002	71			#		
Temperature	C	04/17/2012	N002	19.68			#		
Thorium-234	pCi/L	04/17/2012	N002	-43.8	U		#	169	107
Tritium	pCi/L	04/17/2012	N002	-123	U		#	359	200
Turbidity	NTU	04/17/2012	N002	8.1			#		
Uranium-235	pCi/L	04/17/2012	N002	-21.3	U		#	26.3	20.6
Uranium-238	pCi/L	04/17/2012	N002	-43.8	U		#	169	107
Yttrium-88	pCi/L	04/17/2012	N002	2.33	U		#	7.03	3.22
Zinc	mg/L	04/17/2012	N001	0.0024	B	J	#	0.00072	

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: Half Moon Ck Exit SURFACE LOCATION

Parameter	Units	Sample		Result	Qualifiers		Detection Limit	Uncertainty
		Date	ID		Lab	Data QA		
Actinium-228	pCi/L	04/17/2012	N002	1.34	U	#	15.1	8.84
Americium-241	pCi/L	04/17/2012	N002	8.46	U	#	21.4	14.4
Antimony	mg/L	04/17/2012	N001	0.000027	B	#	0.000012	
Antimony-125	pCi/L	04/17/2012	N002	2.2	U	#	9.45	5.19
Arsenic	mg/L	04/17/2012	N001	0.00035		#	0.000015	
Barium	mg/L	04/17/2012	N001	0.046		#	0.00019	
Beryllium	mg/L	04/17/2012	N001	0.00018	U	#	0.00018	
Cadmium	mg/L	04/17/2012	N001	0.000017	B	#	0.000012	
Cerium-144	pCi/L	04/17/2012	N002	-5.18	U	#	24.1	14.2
Cesium-134	pCi/L	04/17/2012	N002	1.5	U	#	3.89	2.16
Cesium-137	pCi/L	04/17/2012	N002	0.899	U	#	3.86	2.14
Chromium	mg/L	04/17/2012	N001	0.00051	U	#	0.00051	
Cobalt-60	pCi/L	04/17/2012	N002	1.95	U	#	4.12	2.23
Europium-152	pCi/L	04/17/2012	N002	-3.21	U	#	10	5.92
Europium-154	pCi/L	04/17/2012	N002	0.973	U	#	10.5	5.61
Europium-155	pCi/L	04/17/2012	N002	1.84	U	#	14.3	8.07
Lead	mg/L	04/17/2012	N001	0.0005		#	0.0000068	
Lead-212	pCi/L	04/17/2012	N002	3.29	U	#	7.69	6.34

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: Half Moon Ck Exit SURFACE LOCATION

Parameter	Units	Sample		Result	Qualifiers			Detection Limit	Uncertainty
		Date	ID		Lab	Data	QA		
Mercury	mg/L	04/17/2012	N001	0.0000029	U		#	0.0000029	
Nickel	mg/L	04/17/2012	N001	0.00093	U		#	0.00093	
pH	s.u.	04/17/2012	N002	5.37			#		
Potassium-40	pCi/L	04/17/2012	N002	27.6	U		#	37.1	26
Promethium-144	pCi/L	04/17/2012	N002	0.722	U		#	3.7	2.07
Promethium-146	pCi/L	04/17/2012	N002	-1.91	U		#	3.83	2.43
Ruthenium-106	pCi/L	04/17/2012	N002	-12.1	U		#	29	18.1
Selenium	mg/L	04/17/2012	N001	0.00012			#	0.000032	
Silver	mg/L	04/17/2012	N001	0.0011	U		#	0.0011	
Specific Conductance	umhos/cm	04/17/2012	N002	28			#		
Temperature	C	04/17/2012	N002	19.71			#		
Thorium-234	pCi/L	04/17/2012	N002	49.3	U		#	173	219
Tritium	pCi/L	04/17/2012	N002	-170	U		#	360	199
Turbidity	NTU	04/17/2012	N002	9.9			#		
Uranium-235	pCi/L	04/17/2012	N002	1.95	U		#	26.4	16.5
Uranium-238	pCi/L	04/17/2012	N002	49.3	U		#	173	219
Yttrium-88	pCi/L	04/17/2012	N002	-.523	U		#	3.72	2.03
Zinc	mg/L	04/17/2012	N001	0.0015	B	J	#	0.00072	

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: Hick Hollow Ck Entry SURFACE LOCATION Hickory Hollow Creek Entry

Parameter	Units	Sample		Result	Qualifiers		Detection Limit	Uncertainty
		Date	ID		Lab	Data QA		
Actinium-228	pCi/L	04/18/2012	N002	-3.77	U	#	18.4	11.1
Americium-241	pCi/L	04/18/2012	N002	-6.31	U	#	24.2	14.5
Antimony	mg/L	04/18/2012	N001	0.000017	B	#	0.000012	
Antimony-125	pCi/L	04/18/2012	N002	-1.81	U	#	10.7	6.34
Arsenic	mg/L	04/18/2012	N001	0.00024		#	0.000015	
Barium	mg/L	04/18/2012	N001	0.026		#	0.00019	
Beryllium	mg/L	04/18/2012	N001	0.00018	U	#	0.00018	
Cadmium	mg/L	04/18/2012	N001	0.000013	B	#	0.000012	
Cerium-144	pCi/L	04/18/2012	N002	-12.5	U	#	26.6	16.4
Cesium-134	pCi/L	04/18/2012	N002	-1.23	U	#	3.91	2.36
Cesium-137	pCi/L	04/18/2012	N002	2.03	U	#	4.59	2.52
Chromium	mg/L	04/18/2012	N001	0.00051	U	#	0.00051	
Cobalt-60	pCi/L	04/18/2012	N002	-.576	U	#	3.86	2.14
Europium-152	pCi/L	04/18/2012	N002	3.45	U	#	12.4	7.07
Europium-154	pCi/L	04/18/2012	N002	-4.05	U	#	10.6	6.48
Europium-155	pCi/L	04/18/2012	N002	3.66	U	#	15.8	9.33
Lead	mg/L	04/18/2012	N001	0.0001		#	0.0000068	
Lead-212	pCi/L	04/18/2012	N002	1.83	U	#	8.56	6.35

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: Hick Hollow Ck Entry SURFACE LOCATION Hickory Hollow Creek Entry

Parameter	Units	Sample		Result	Qualifiers		Detection Limit	Uncertainty
		Date	ID		Lab	Data QA		
Mercury	mg/L	04/18/2012	N001	0.0000029	U	#	0.0000029	
Nickel	mg/L	04/18/2012	N001	0.00093	U	#	0.00093	
pH	s.u.	04/18/2012	N002	4.45		#		
Potassium-40	pCi/L	04/18/2012	N002	-9.21	U	#	54.8	29.8
Promethium-144	pCi/L	04/18/2012	N002	0.915	U	#	3.85	2.07
Promethium-146	pCi/L	04/18/2012	N002	-1.66	U	#	5.1	3
Ruthenium-106	pCi/L	04/18/2012	N002	5.98	U	#	39.3	21.4
Selenium	mg/L	04/18/2012	N001	0.000086	B	#	0.000032	
Silver	mg/L	04/18/2012	N001	0.0011	U	#	0.0011	
Specific Conductance	umhos/cm	04/18/2012	N002	24		#		
Temperature	C	04/18/2012	N002	20.9		#		
Thorium-234	pCi/L	04/18/2012	N002	-55.8	U	#	226	147
Tritium	pCi/L	04/18/2012	N002	0	U	#	360	206
Turbidity	NTU	04/18/2012	N002	8.02		#		
Uranium-235	pCi/L	04/18/2012	N002	-11.6	U	#	26.6	19.4
Uranium-238	pCi/L	04/18/2012	N002	-55.8	U	#	226	147
Yttrium-88	pCi/L	04/18/2012	N002	0.506	U	#	4.59	2.24
Zinc	mg/L	04/18/2012	N001	0.00072	U	#	0.00072	

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HickHCrTSD-East SURFACE LOCATION Replaced proposed Hick Hollow Ck Entry sample location due to problems with access.

Parameter	Units	Sample		Result	Qualifiers		Detection Limit	Uncertainty
		Date	ID		Lab	Data QA		
Actinium-228	pCi/L	04/18/2012	N002	- .732	U	#	13	7.31
Americium-241	pCi/L	04/18/2012	N002	2.49	U	#	14.6	9.51
Antimony	mg/L	04/18/2012	N001	0.000016	B	#	0.000012	
Antimony-125	pCi/L	04/18/2012	N002	- .709	U	#	8.58	4.73
Arsenic	mg/L	04/18/2012	N001	0.00019		#	0.000015	
Barium	mg/L	04/18/2012	N001	0.028		#	0.00019	
Beryllium	mg/L	04/18/2012	N001	0.00018	U	#	0.00018	
Cadmium	mg/L	04/18/2012	N001	0.000012	U	#	0.000012	
Cerium-144	pCi/L	04/18/2012	N002	-12.7	U	#	20.2	14.3
Cesium-134	pCi/L	04/18/2012	N002	0.486	U	#	3.81	2.07
Cesium-137	pCi/L	04/18/2012	N002	2.16	U	#	3.87	2.18
Chromium	mg/L	04/18/2012	N001	0.00051	U	#	0.00051	
Cobalt-60	pCi/L	04/18/2012	N002	1.27	U	#	4.03	2.08
Europium-152	pCi/L	04/18/2012	N002	- .558	U	#	9.45	5.47
Europium-154	pCi/L	04/18/2012	N002	3.1	U	#	10.1	5.1
Europium-155	pCi/L	04/18/2012	N002	0.326	U	#	11.9	6.61
Lead	mg/L	04/18/2012	N001	0.00015		#	0.0000068	
Lead-212	pCi/L	04/18/2012	N002	0.504	U	#	7.02	4.6

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: HickHCrTSD-East SURFACE LOCATION Replaced proposed Hick Hollow Ck Entry sample location due to problems with access.

Parameter	Units	Sample		Result	Qualifiers			Detection Limit	Uncertainty
		Date	ID		Lab	Data	QA		
Mercury	mg/L	04/18/2012	N001	0.0000029	U		#	0.0000029	
Nickel	mg/L	04/18/2012	N001	0.00093	U		#	0.00093	
pH	s.u.	04/18/2012	N002	4.75			#		
Potassium-40	pCi/L	04/18/2012	N002	-10.3	U		#	47.4	29.4
Promethium-144	pCi/L	04/18/2012	N002	0.267	U		#	3.28	1.79
Promethium-146	pCi/L	04/18/2012	N002	-.708	U		#	3.97	2.24
Ruthenium-106	pCi/L	04/18/2012	N002	-8.83	U		#	26.5	15.9
Selenium	mg/L	04/18/2012	N001	0.000053	B		#	0.000032	
Silver	mg/L	04/18/2012	N001	0.0011	U		#	0.0011	
Specific Conductance	umhos/cm	04/18/2012	N002	22			#		
Temperature	C	04/18/2012	N002	18.14			#		
Thorium-234	pCi/L	04/18/2012	N002	0.565	U		#	147	115
Tritium	pCi/L	04/18/2012	N002	-22.5	U		#	220	108
Turbidity	NTU	04/18/2012	N002	1.41			#		
Uranium-235	pCi/L	04/18/2012	N002	6.27	U		#	22.6	15.1
Uranium-238	pCi/L	04/18/2012	N002	0.565	U		#	147	115
Yttrium-88	pCi/L	04/18/2012	N002	-1.76	U		#	3.4	2.18
Zinc	mg/L	04/18/2012	N001	0.0011	B	J	#	0.00072	

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: Pond West of GZ SURFACE LOCATION

Parameter	Units	Sample Date	Sample ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Actinium-228	pCi/L	04/18/2012	N002	2.26	U		#	15.8	9.04
Actinium-228	pCi/L	04/18/2012	N003	-7.57	U		#	14.2	12.6
Americium-241	pCi/L	04/18/2012	N002	-5.39	U		#	26.2	17.1
Americium-241	pCi/L	04/18/2012	N003	7.25	U		#	25.1	16.1
Antimony	mg/L	04/18/2012	N001	0.000091			#	0.000012	
Antimony-125	pCi/L	04/18/2012	N002	0.265	U		#	9.59	5.21
Antimony-125	pCi/L	04/18/2012	N003	-3.05	U		#	9.8	5.89
Arsenic	mg/L	04/18/2012	N001	0.005			#	0.000015	
Barium	mg/L	04/18/2012	N001	0.075			#	0.00019	
Beryllium	mg/L	04/18/2012	N001	0.00018	U		#	0.00018	
Cadmium	mg/L	04/18/2012	N001	0.000032			#	0.000012	
Cerium-144	pCi/L	04/18/2012	N002	1.93	U		#	23.4	13.7
Cerium-144	pCi/L	04/18/2012	N003	8.48	U		#	25.8	15.6
Cesium-134	pCi/L	04/18/2012	N002	-1.38	U		#	3.81	2.37
Cesium-134	pCi/L	04/18/2012	N003	0.29	U		#	3.68	1.95
Cesium-137	pCi/L	04/18/2012	N002	-1.09	U		#	3.48	2.1
Cesium-137	pCi/L	04/18/2012	N003	-.468	U		#	3.92	2.28
Chromium	mg/L	04/18/2012	N001	0.0035	B		#	0.00051	
Cobalt-60	pCi/L	04/18/2012	N002	-.258	U		#	3.8	2.02

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: Pond West of GZ SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Cobalt-60	pCi/L	04/18/2012	N003	-.233	U		#	4.27	2.37
Europium-152	pCi/L	04/18/2012	N002	0.901	U		#	10.8	6.11
Europium-152	pCi/L	04/18/2012	N003	3.51	U		#	11.8	6.59
Europium-154	pCi/L	04/18/2012	N002	0.917	U		#	11.1	5.94
Europium-154	pCi/L	04/18/2012	N003	-.507	U		#	11.7	6.48
Europium-155	pCi/L	04/18/2012	N002	-3.68	U		#	13.4	8.15
Europium-155	pCi/L	04/18/2012	N003	-1.1	U		#	13.3	7.71
Lead	mg/L	04/18/2012	N001	0.0012			#	0.0000068	
Lead-212	pCi/L	04/18/2012	N002	0.913	U		#	7.35	5.48
Lead-212	pCi/L	04/18/2012	N003	5.03	U		#	8.22	7.61
Mercury	mg/L	04/18/2012	N001	0.0000082	B		#	0.0000029	
Nickel	mg/L	04/18/2012	N001	0.00093	U		#	0.00093	
pH	s.u.	04/18/2012	N003	5.66			#		
Potassium-40	pCi/L	04/18/2012	N002	-21.3	U		#	53	33.5
Potassium-40	pCi/L	04/18/2012	N003	-33.3	U		#	46.8	35.1
Promethium-144	pCi/L	04/18/2012	N002	-.0663	U		#	3.75	2.11
Promethium-144	pCi/L	04/18/2012	N003	0.751	U		#	3.63	1.94
Promethium-146	pCi/L	04/18/2012	N002	-1.39	U		#	4.41	2.6
Promethium-146	pCi/L	04/18/2012	N003	-1.73	U		#	4.88	2.98

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: Pond West of GZ SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Ruthenium-106	pCi/L	04/18/2012	N002	-5.8	U		#	30.8	17.8
Ruthenium-106	pCi/L	04/18/2012	N003	-8.81	U		#	35.7	21.4
Selenium	mg/L	04/18/2012	N001	0.00036			#	0.000032	
Silver	mg/L	04/18/2012	N001	0.0011	U		#	0.0011	
Specific Conductance	umhos/cm	04/18/2012	N003	49.2			#		
Temperature	C	04/18/2012	N003	28.03			#		
Thorium-234	pCi/L	04/18/2012	N002	44	U		#	228	219
Thorium-234	pCi/L	04/18/2012	N003	172	U		#	198	190
Tritium	pCi/L	04/18/2012	N002	-93.7	U		#	352	197
Tritium	pCi/L	04/18/2012	N003	-119	U		#	346	193
Turbidity	NTU	04/18/2012	N003	8.02			#		
Uranium-235	pCi/L	04/18/2012	N002	8.11	U		#	23.7	21.9
Uranium-235	pCi/L	04/18/2012	N003	10.4	U		#	25.5	18.7
Uranium-238	pCi/L	04/18/2012	N002	44	U		#	228	219
Uranium-238	pCi/L	04/18/2012	N003	172	U		#	198	190
Yttrium-88	pCi/L	04/18/2012	N002	0.0372	U		#	3.63	1.85
Yttrium-88	pCi/L	04/18/2012	N003	0.404	U		#	4.5	2.29
Zinc	mg/L	04/18/2012	N001	0.004	B		#	0.00072	

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: Reeco Pit (A) SURFACE LOCATION

Parameter	Units	Sample		Result	Qualifiers		Detection Limit	Uncertainty
		Date	ID		Lab	Data QA		
Antimony	mg/L	04/17/2012	N001	0.000091		#	0.000012	
Arsenic	mg/L	04/17/2012	N001	0.000069		#	0.000015	
Barium	mg/L	04/17/2012	N001	0.04		#	0.00019	
Beryllium	mg/L	04/17/2012	N001	0.00018	U	#	0.00018	
Cadmium	mg/L	04/17/2012	N001	0.000038		#	0.000012	
Chromium	mg/L	04/17/2012	N001	0.00073	B	#	0.00051	
Lead	mg/L	04/17/2012	N001	0.00027		#	0.0000068	
Mercury	mg/L	04/17/2012	N001	0.0000029	U	#	0.0000029	
Nickel	mg/L	04/17/2012	N001	0.00093	U	#	0.00093	
pH	s.u.	04/17/2012	N002	5.52		#		
Selenium	mg/L	04/17/2012	N001	0.00012		#	0.000032	
Silver	mg/L	04/17/2012	N001	0.0011	U	#	0.0011	
Specific Conductance	umhos/cm	04/17/2012	N002	46		#		
Temperature	C	04/17/2012	N002	20.59		#		
Tritium	pCi/L	04/17/2012	N002	85.7	U	#	217	126
Turbidity	NTU	04/17/2012	N002	5.52		#		
Zinc	mg/L	04/17/2012	N001	0.0059	B	#	0.00072	

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: Reeco Pit (B) SURFACE LOCATION

Parameter	Units	Sample		Result	Qualifiers			Detection Limit	Uncertainty
		Date	ID		Lab	Data	QA		
Antimony	mg/L	04/17/2012	N001	0.000043			#	0.000012	
Arsenic	mg/L	04/17/2012	N001	0.00086			#	0.000015	
Barium	mg/L	04/17/2012	N001	0.031			#	0.00019	
Beryllium	mg/L	04/17/2012	N001	0.00018	U		#	0.00018	
Cadmium	mg/L	04/17/2012	N001	0.000029	B		#	0.000012	
Chromium	mg/L	04/17/2012	N001	0.0019	B	J	#	0.00051	
Lead	mg/L	04/17/2012	N001	0.00054			#	0.0000068	
Mercury	mg/L	04/17/2012	N001	0.0000029	U		#	0.0000029	
Nickel	mg/L	04/17/2012	N001	0.00093	U		#	0.00093	
pH	s.u.	04/17/2012	N002	6.08			#		
Selenium	mg/L	04/17/2012	N001	0.00013			#	0.000032	
Silver	mg/L	04/17/2012	N001	0.0011	U		#	0.0011	
Specific Conductance	umhos/cm	04/17/2012	N002	80			#		
Temperature	C	04/17/2012	N002	20.02			#		
Tritium	pCi/L	04/17/2012	N002	-45.5	U		#	231	109
Turbidity	NTU	04/17/2012	N002	9.7			#		
Zinc	mg/L	04/17/2012	N001	0.0035	B	J	#	0.00072	

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 10/3/2012

Location: Reeco Pit (C) SURFACE LOCATION

Parameter	Units	Sample		Result	Qualifiers			Detection Limit	Uncertainty
		Date	ID		Lab	Data	QA		
Antimony	mg/L	04/17/2012	N001	0.00005			#	0.000012	
Arsenic	mg/L	04/17/2012	N001	0.00066			#	0.000015	
Barium	mg/L	04/17/2012	N001	0.028			#	0.00019	
Beryllium	mg/L	04/17/2012	N001	0.00018	U		#	0.00018	
Cadmium	mg/L	04/17/2012	N001	0.000029	B		#	0.000012	
Chromium	mg/L	04/17/2012	N001	0.0017	B	J	#	0.00051	
Lead	mg/L	04/17/2012	N001	0.00052			#	0.0000068	
Mercury	mg/L	04/17/2012	N001	0.0000029	U		#	0.0000029	
Nickel	mg/L	04/17/2012	N001	0.00093	U		#	0.00093	
pH	s.u.	04/17/2012	N002	6.26			#		
Selenium	mg/L	04/17/2012	N001	0.00013			#	0.000032	
Silver	mg/L	04/17/2012	N001	0.0011	U		#	0.0011	
Specific Conductance	umhos/cm	04/17/2012	N002	72			#		
Temperature	C	04/17/2012	N002	19.72			#		
Tritium	pCi/L	04/17/2012	N002	21.6	U		#	228	120
Turbidity	NTU	04/17/2012	N002	9.8			#		
Zinc	mg/L	04/17/2012	N001	0.0018	B	J	#	0.00072	

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.

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## **Static Water Level Data**

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**STATIC WATER LEVELS (USEE700) FOR SITE SAL01, Salmon Site**  
**REPORT DATE: 10/3/2012**

Location Code	Flow Code	Top of Casing Elevation (Ft)	Measurement Date	Measurement Time	Depth From Top of Casing (Ft)	Water Elevation (Ft)
E-7		260.43	04/16/2012	16:48:12	140.13	120.3
E-7		260.43	04/19/2012	09:29:00	140.11	120.32
HM-1		243.56	04/17/2012	12:25:03	96.85	146.71
HM-1		243.56	04/19/2012	08:51:00	96.98	146.58
HM-2A		243.54	04/16/2012	15:55:50	115.02	128.52
HM-2A		243.54	04/19/2012	16:00:00	114.96	128.58
HM-2B		243.48	04/17/2012	11:00:20	124.14	119.34
HM-2B		243.48	04/19/2012	08:44:00	124.21	119.27
HM-3		243.62	04/16/2012	17:30:34	122.89	120.73
HM-3		243.62	04/19/2012	16:00:00	122.85	120.77
HM-L		244.02	04/17/2012	14:30:58	91.6	152.42
HM-L		244.02	04/19/2012	08:57:00	91.49	152.53
HM-L2		253.73	04/16/2012	12:47:30	98.01	155.72
HM-L2		253.73	04/19/2012	09:52:00	97.87	155.86
HM-S		244.4	04/17/2012	13:30:30	8.4	236
HM-S		244.4	04/19/2012	08:55:00	8	236.4
HMH-16R		243.56	04/18/2012	12:27:17	6	237.56
HMH-16R		243.56	04/19/2012	10:16:00	5.91	237.65
HMH-5R		239.45	04/18/2012	10:10:48	3.81	235.64
HMH-5R		239.45	04/19/2012	10:13:00	4.16	235.29
SA1-1-H		242.3	04/16/2012	13:35:26	7.1	235.2
SA1-1-H		242.3	04/19/2012	08:34:00	6.18	236.12
SA1-11-3		250.06	04/17/2012	11:02:13	131.25	118.81
SA1-11-3		250.06	04/19/2012	10:25:00	131.19	118.87
SA1-12-H		241.43	04/18/2012	11:12:33	7.05	234.38
SA1-12-H		241.43	04/19/2012	10:22:00	7.12	234.31
SA1-2-H		243.08	04/16/2012	14:45:26	7.74	235.34
SA1-2-H		243.08	04/19/2012	09:10:00	7.03	236.05

**STATIC WATER LEVELS (USEE700) FOR SITE SAL01, Salmon Site**  
**REPORT DATE: 10/3/2012**

Location Code	Flow Code	Top of Casing Elevation (Ft)	Measurement Date	Measurement Time	Depth From Top of Casing (Ft)	Water Elevation (Ft)
SA1-3-H		241.97	04/18/2012	15:06:28	5.75	236.22
SA1-3-H		241.97	04/19/2012	09:06:00	5.8	236.17
SA1-4-H		242.17	04/18/2012	11:59:14	5.06	237.11
SA1-4-H		242.17	04/19/2012	09:03:00	5.21	236.96
SA1-5-H		243.53	04/16/2012	18:17:16	7.06	236.47
SA1-5-H		243.53	04/19/2012	08:59:00	6.37	237.16
SA1-6-H		241.97	04/18/2012	14:37:53	4.3	237.67
SA1-6-H		241.97	04/19/2012	10:08:00	4.32	237.65
SA1-7-H		243.08	04/18/2012	13:42:33	5.85	237.23
SA1-7-H		243.08	04/19/2012	10:00:00	5.81	237.27
SA1-8-L		251.44	04/17/2012	11:49:57	94.37	157.07
SA1-8-L		251.44	04/19/2012	10:32:00	94.52	156.92
SA2-1-L		335.69	04/18/2012	09:56:01	178.58	157.11
SA2-1-L		335.69	04/19/2012	10:35:00	178.56	157.13
SA2-2-L		325.73	04/17/2012	15:46:39	168.66	157.07
SA2-2-L		325.73	04/19/2012	11:15:00	168.78	156.95
SA2-4-L		290.6	04/17/2012	13:13:53	133.26	157.34
SA2-4-L		290.6	04/19/2012	11:25:00	133.19	157.41
SA3-11-3		253.44	04/17/2012	09:54:25	135.67	117.77
SA3-11-3		253.44	04/19/2012	09:21:00	135.59	117.85
SA3-4-H		242.3	04/18/2012	13:42:22	3.93	238.37
SA3-4-H		242.3	04/19/2012	09:15:00	4.31	237.99
SA4-5-L		267.96	04/16/2012	15:02:15	113.03	154.93
SA4-5-L		267.96	04/19/2012	09:47:00	112.91	155.05

FLOW CODES: B BACKGROUND  
N UNKNOWN

C CROSS GRADIENT  
O ON SITE

D DOWN GRADIENT  
U UPGRADIENT

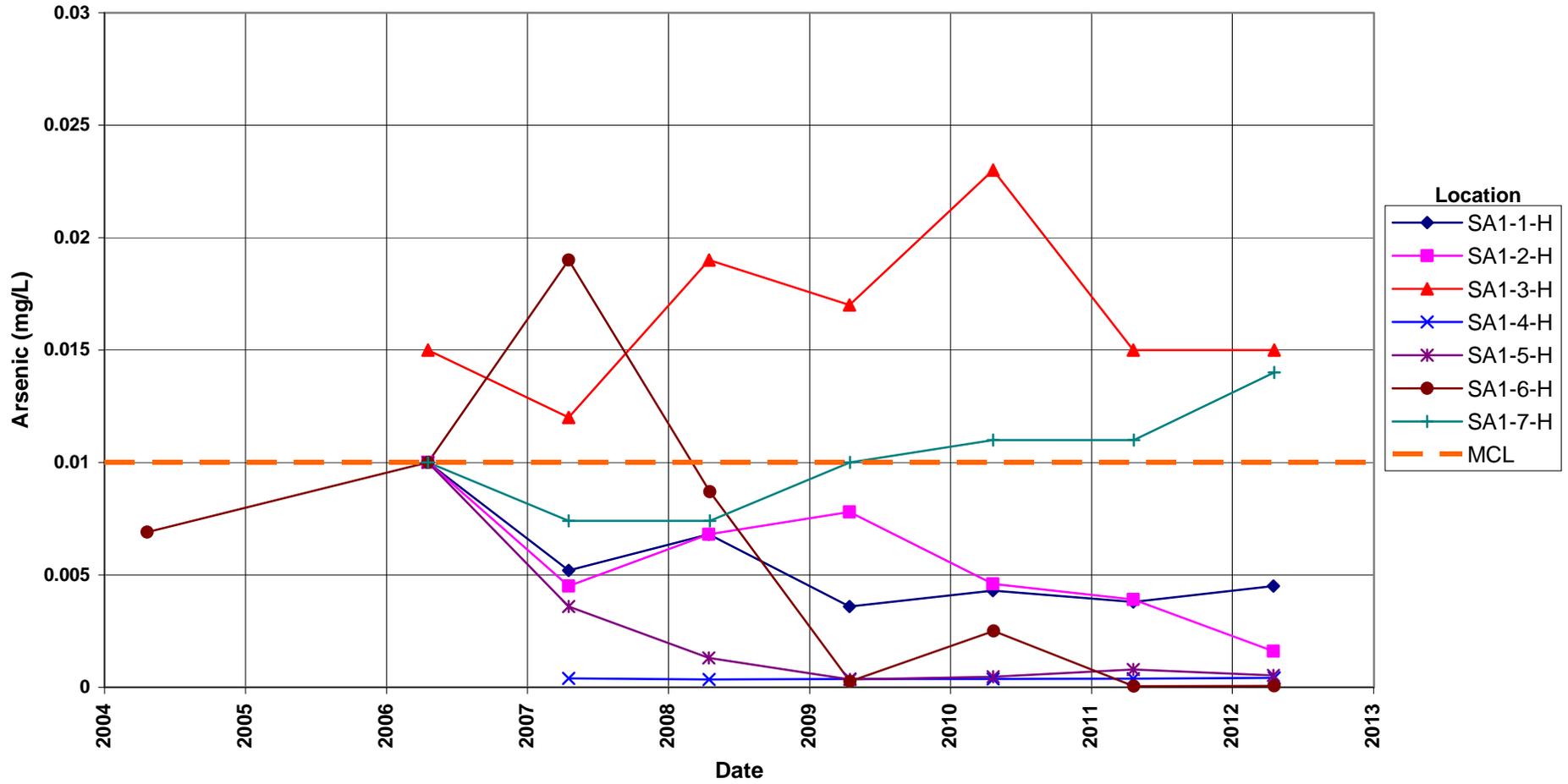
F OFF SITE

# **Time-Concentration Graphs**

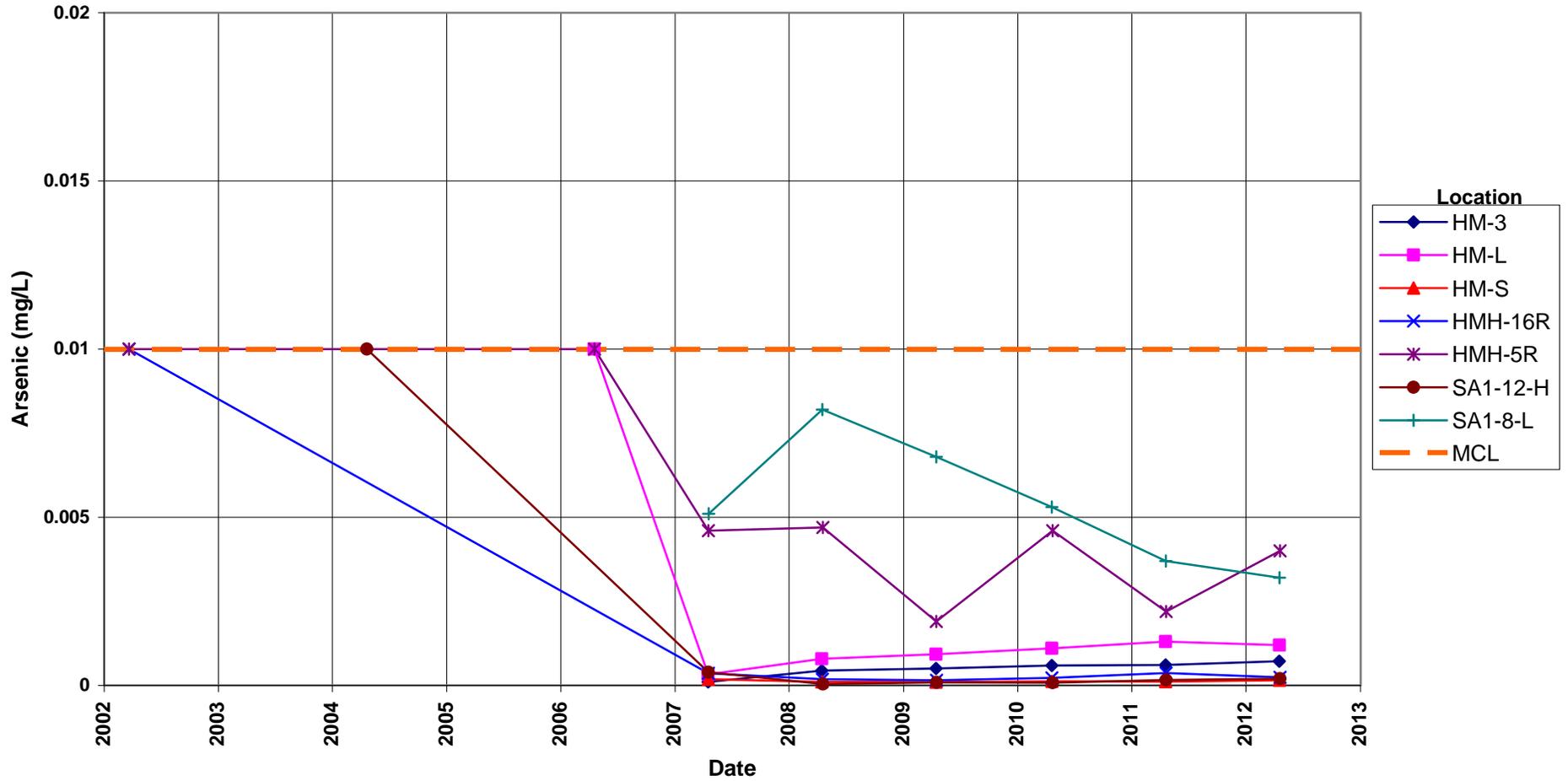
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# Salmon Site Arsenic Concentration

Maximum Contaminant Level (MCL) = 0.01 mg/L

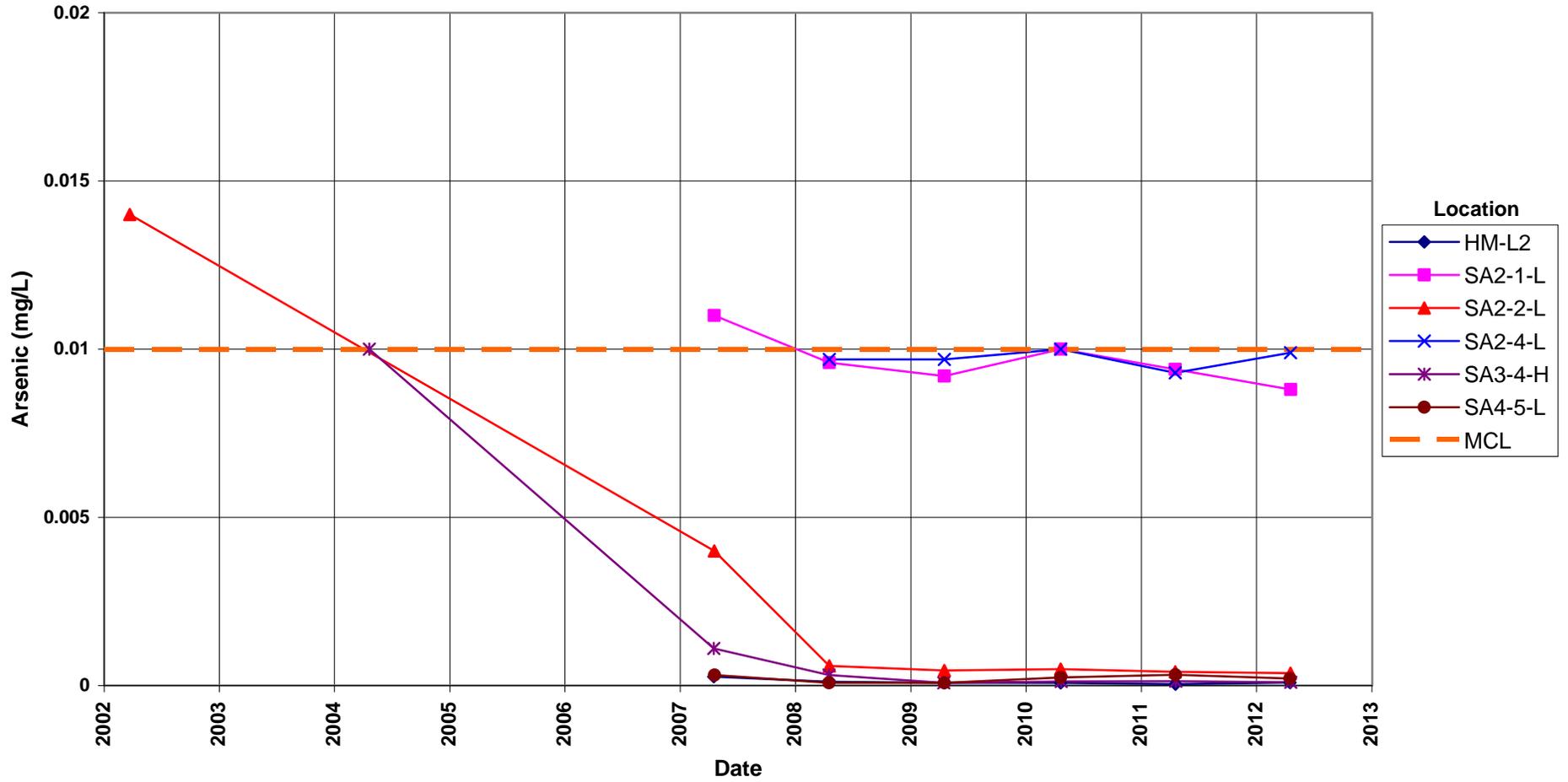


**Salmon Site**  
**Arsenic Concentration**  
Maximum Contaminant Level (MCL) = 0.01 mg/L

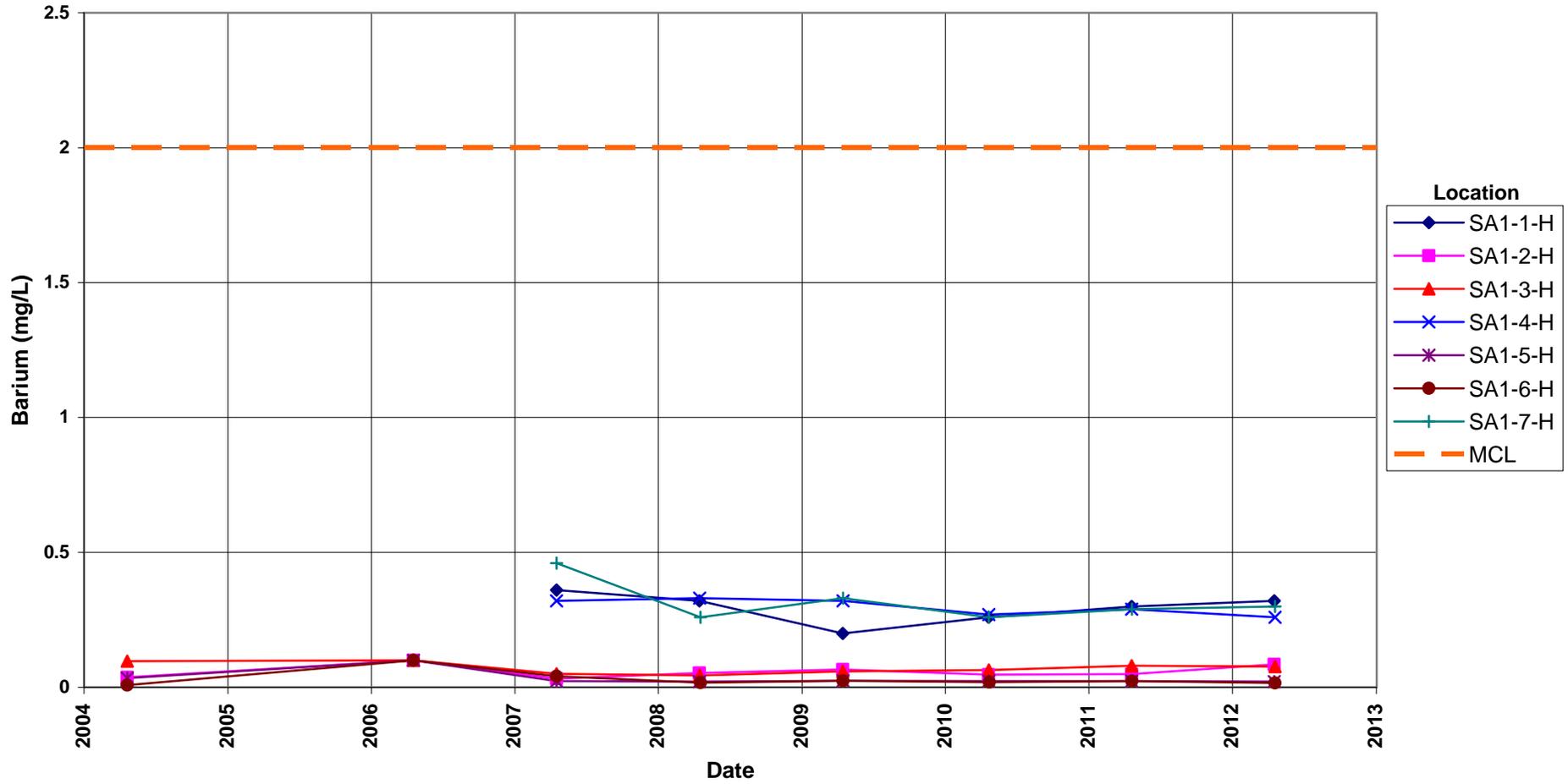


# Salmon Site Arsenic Concentration

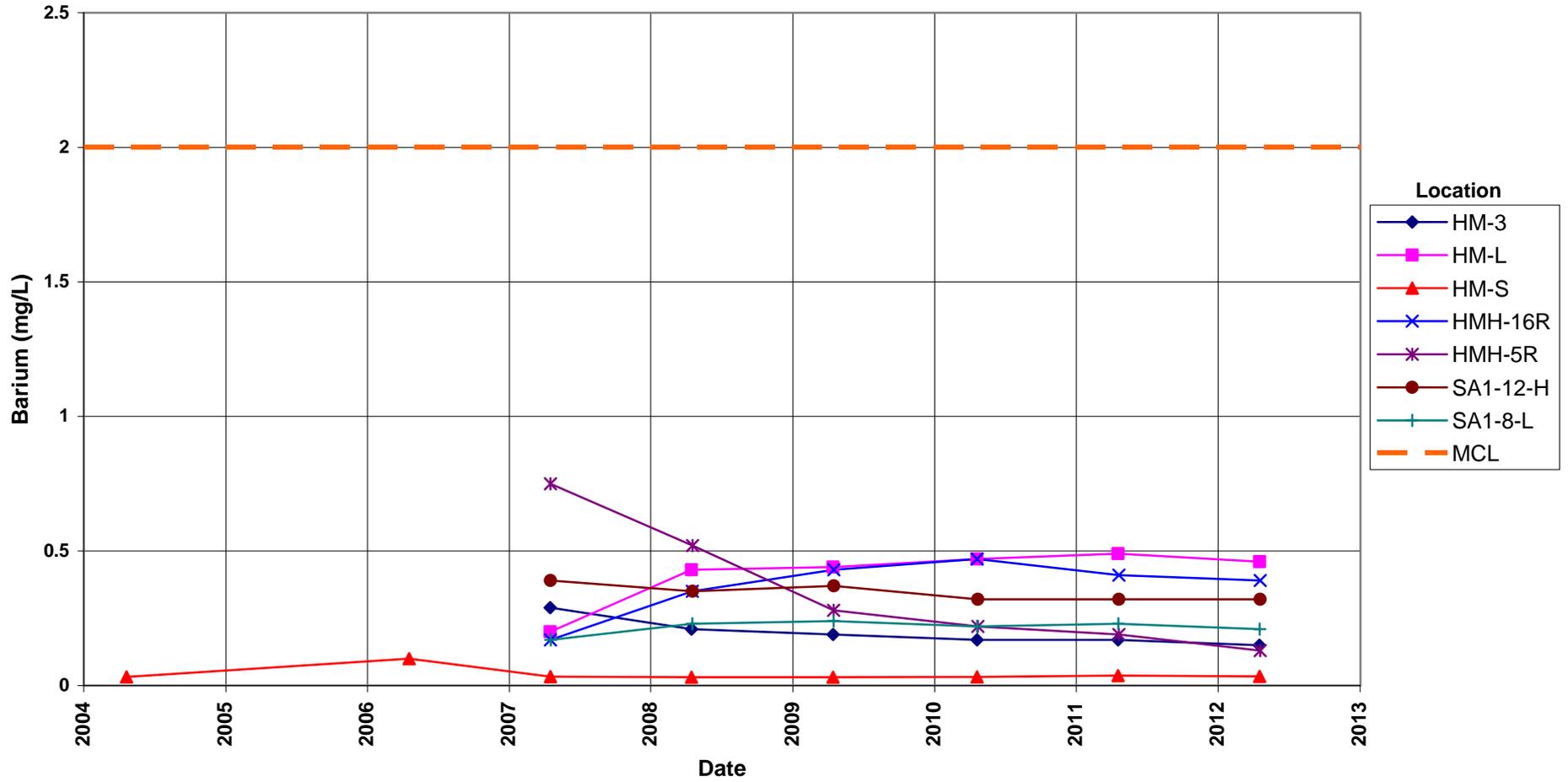
Maximum Contaminant Level (MCL) = 0.01 mg/L



**Salmon Site**  
**Barium Concentration**  
Maximum Contaminant Level (MCL) = 2.0 mg/L

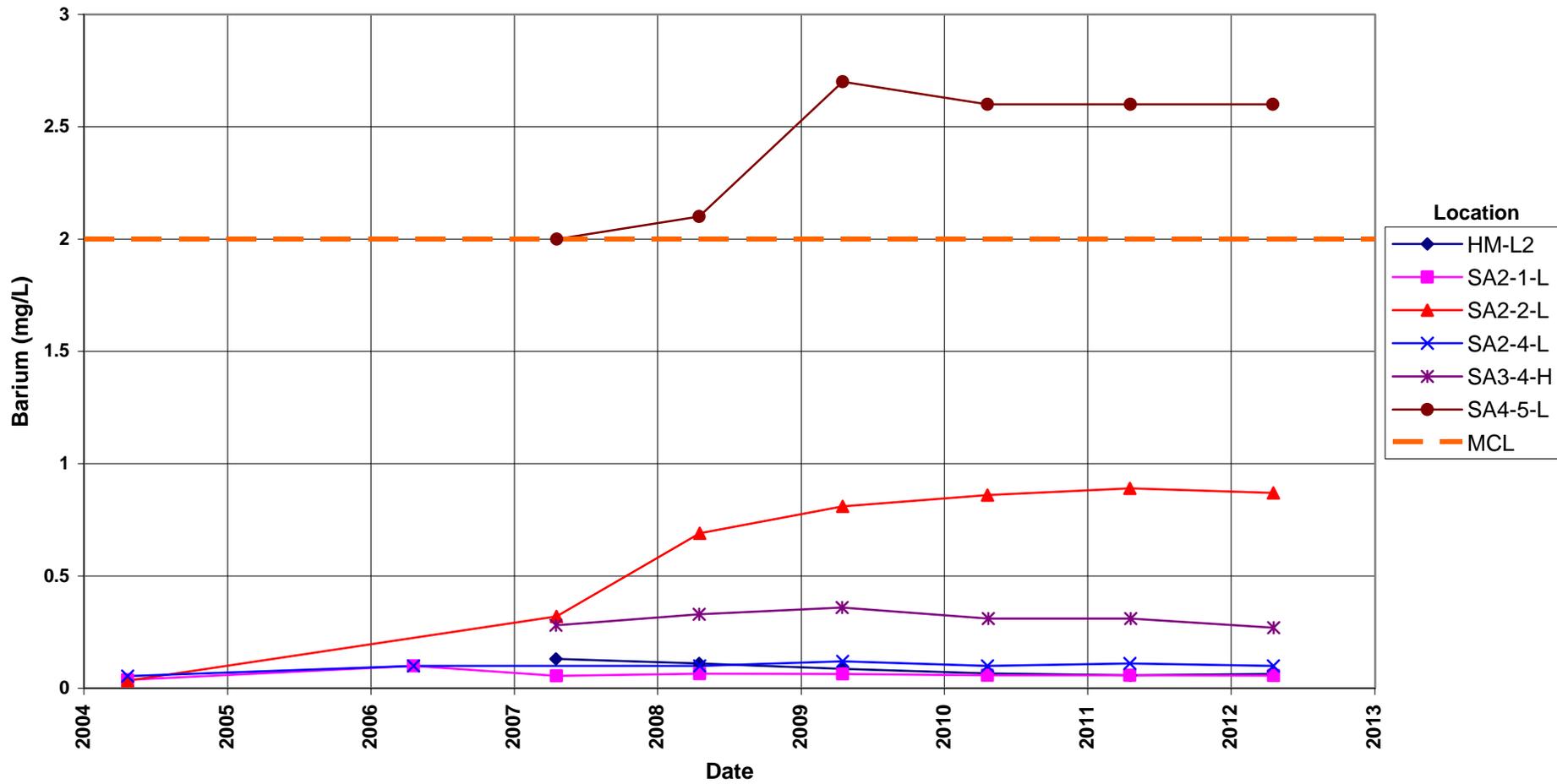


**Salmon Site**  
**Barium Concentration**  
Maximum Contaminant Level (MCL) = 2.0 mg/L

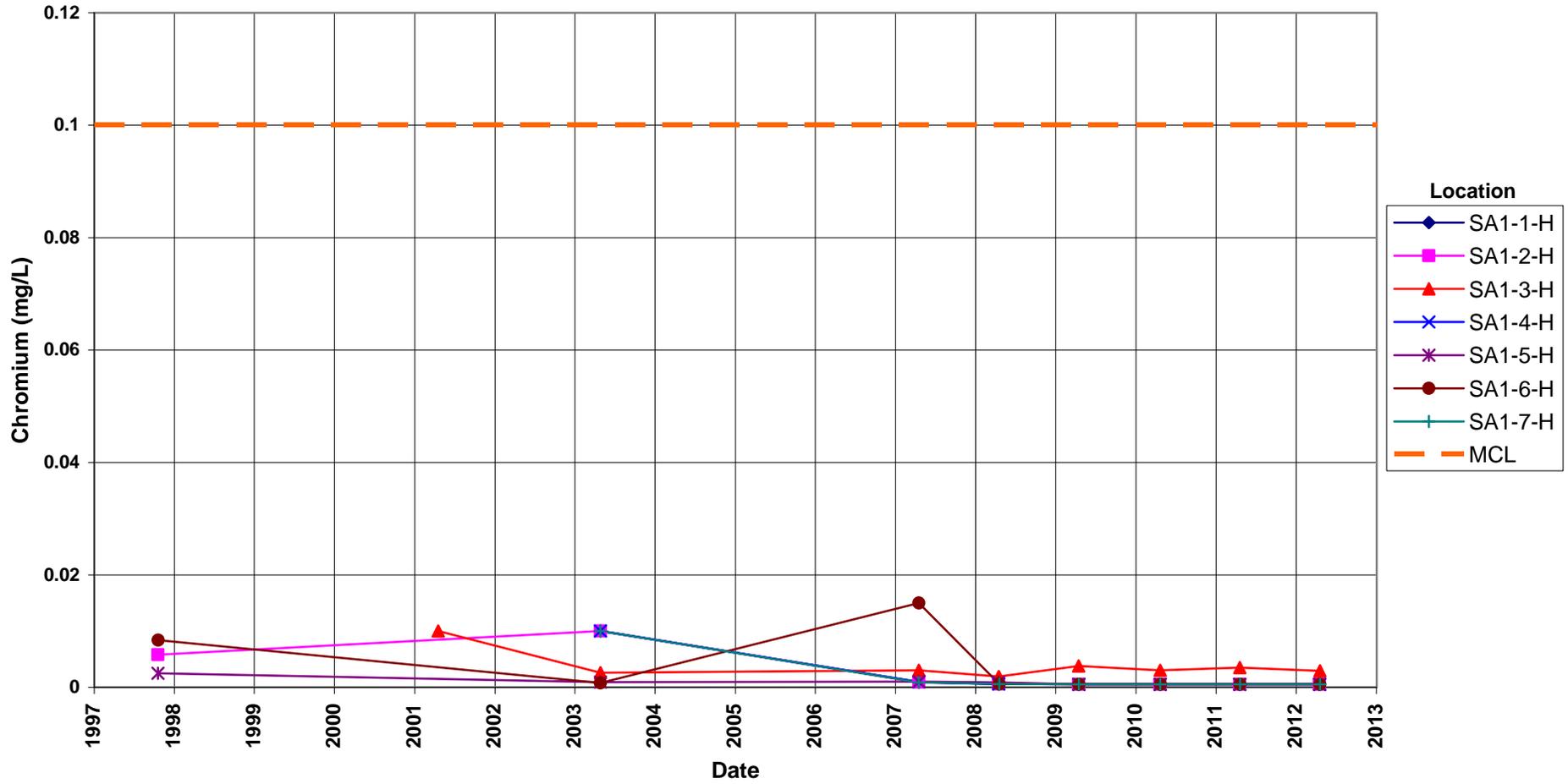


### Salmon Site Barium Concentration

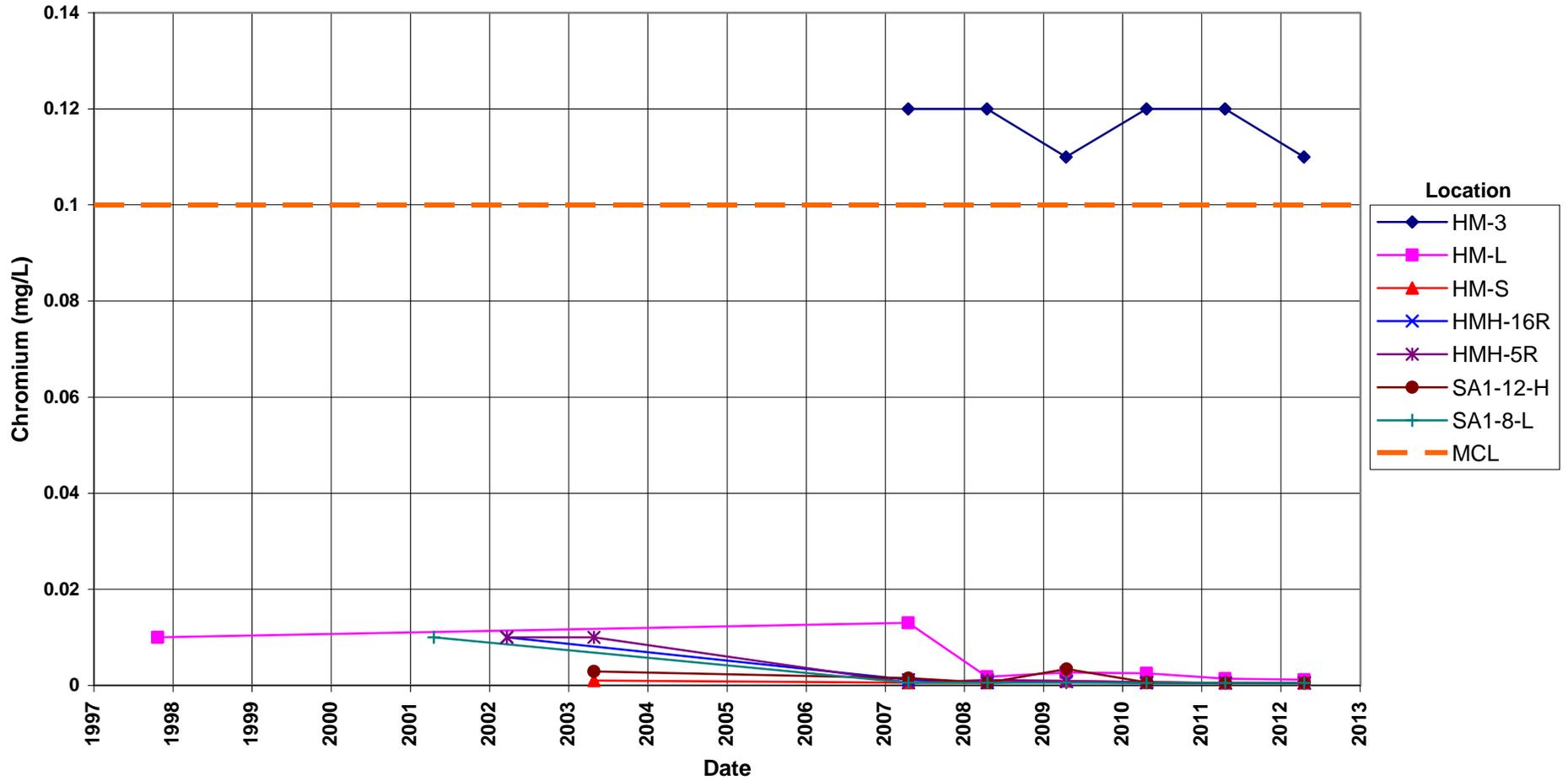
Maximum Contaminant Level (MCL) = 2.0 mg/L



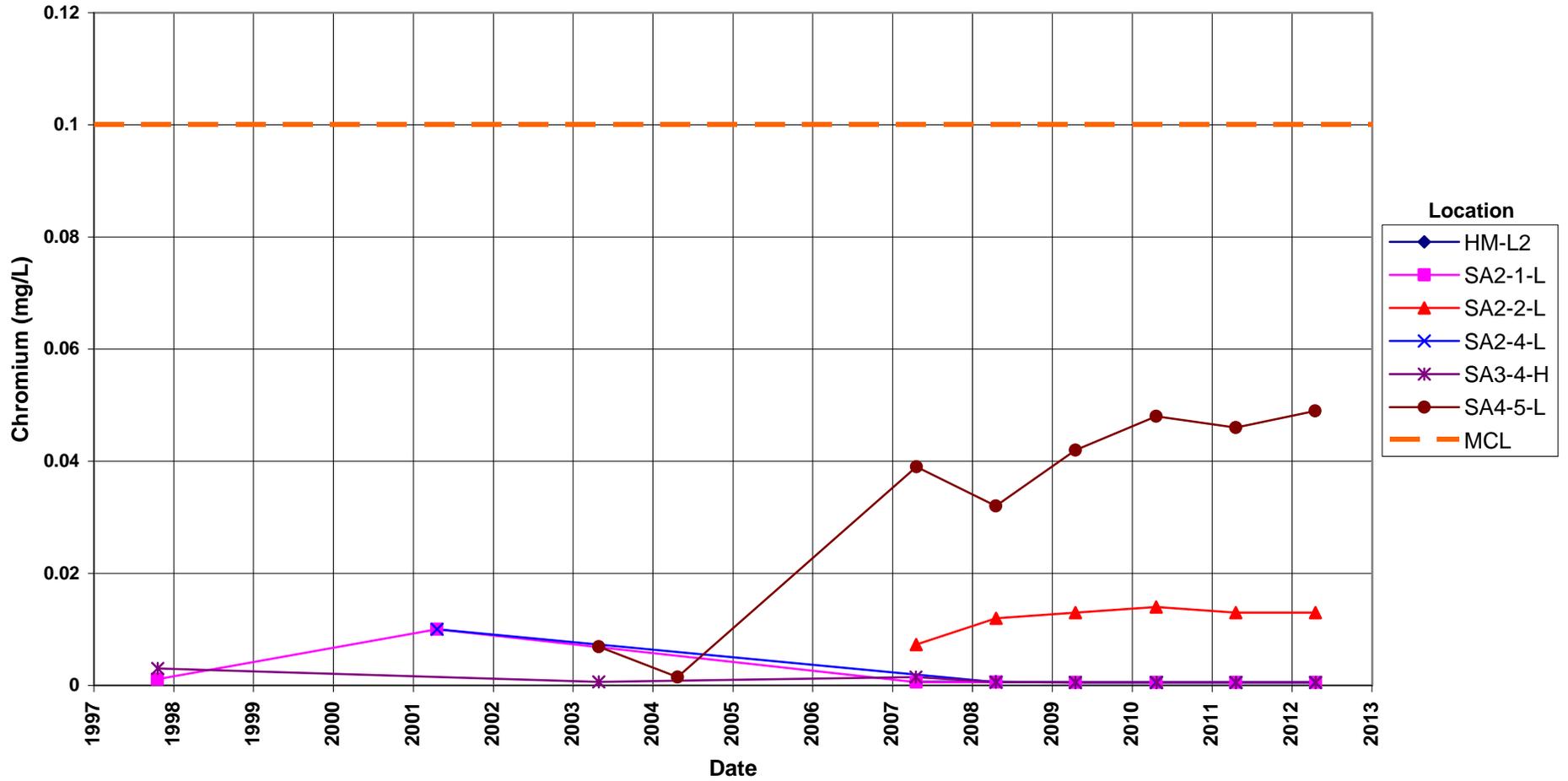
**Salmon Site**  
**Chromium Concentration**  
Maximum Contaminant Level (MCL) = 0.1 mg/L



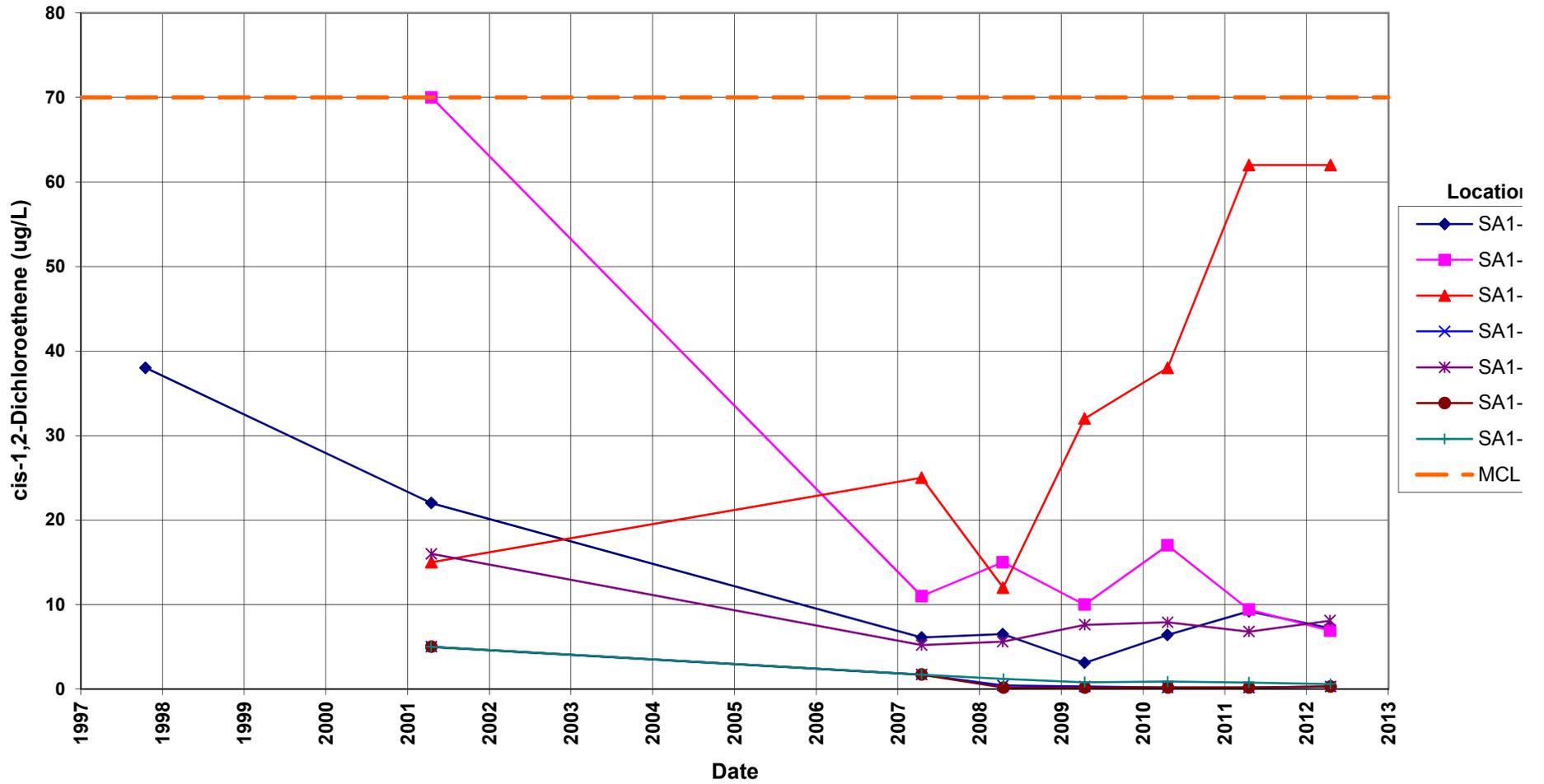
**Salmon Site**  
**Chromium Concentration**  
Maximum Contaminant Level (MCL) = 0.1 mg/L



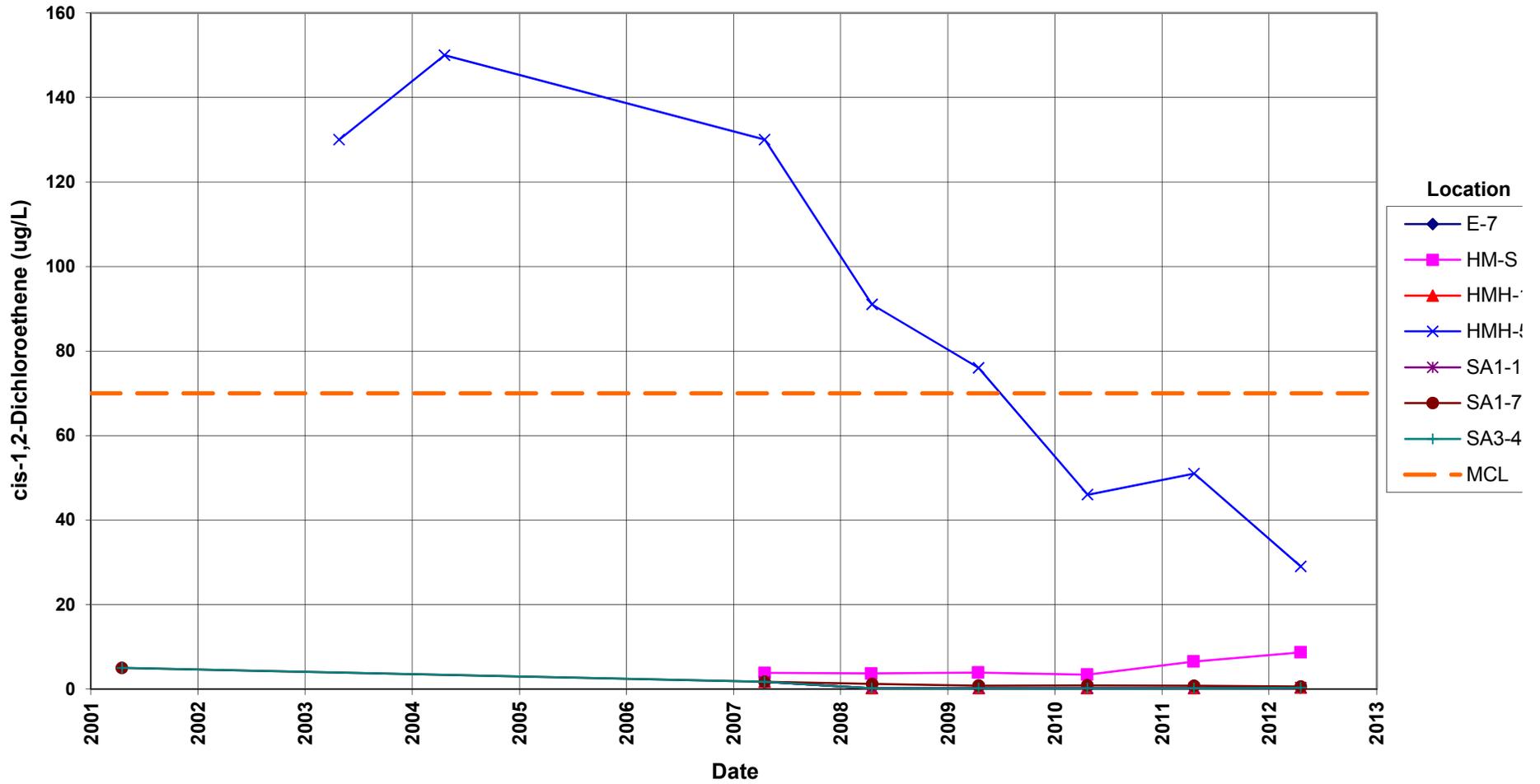
**Salmon Site**  
**Chromium Concentration**  
Maximum Contaminant Level (MCL) = 0.1 mg/L



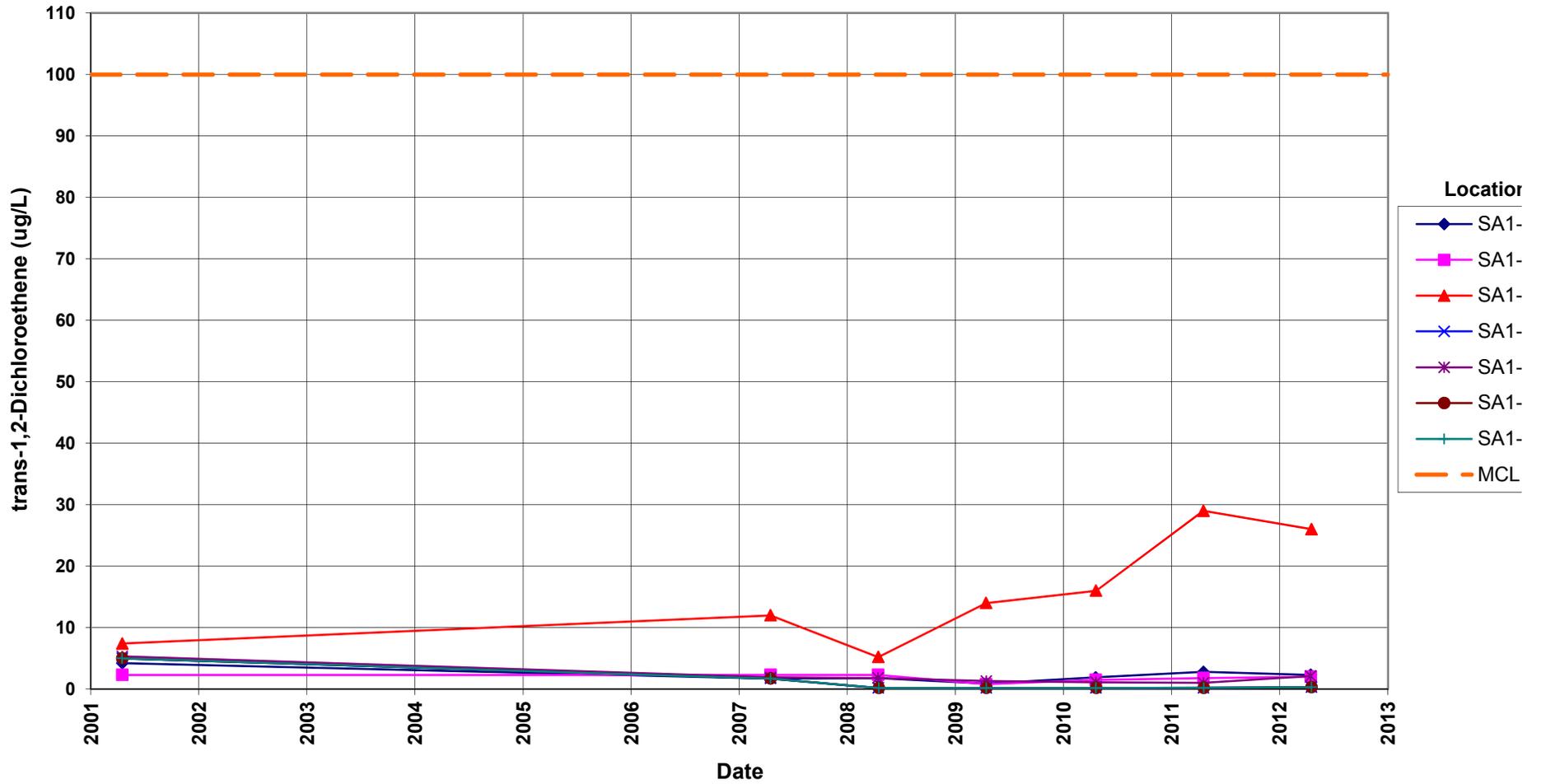
**Salmon Site**  
**cis-1,2-Dichloroethene Concentration**  
Maximum Contaminant Level (MCL) = 70 ug/L



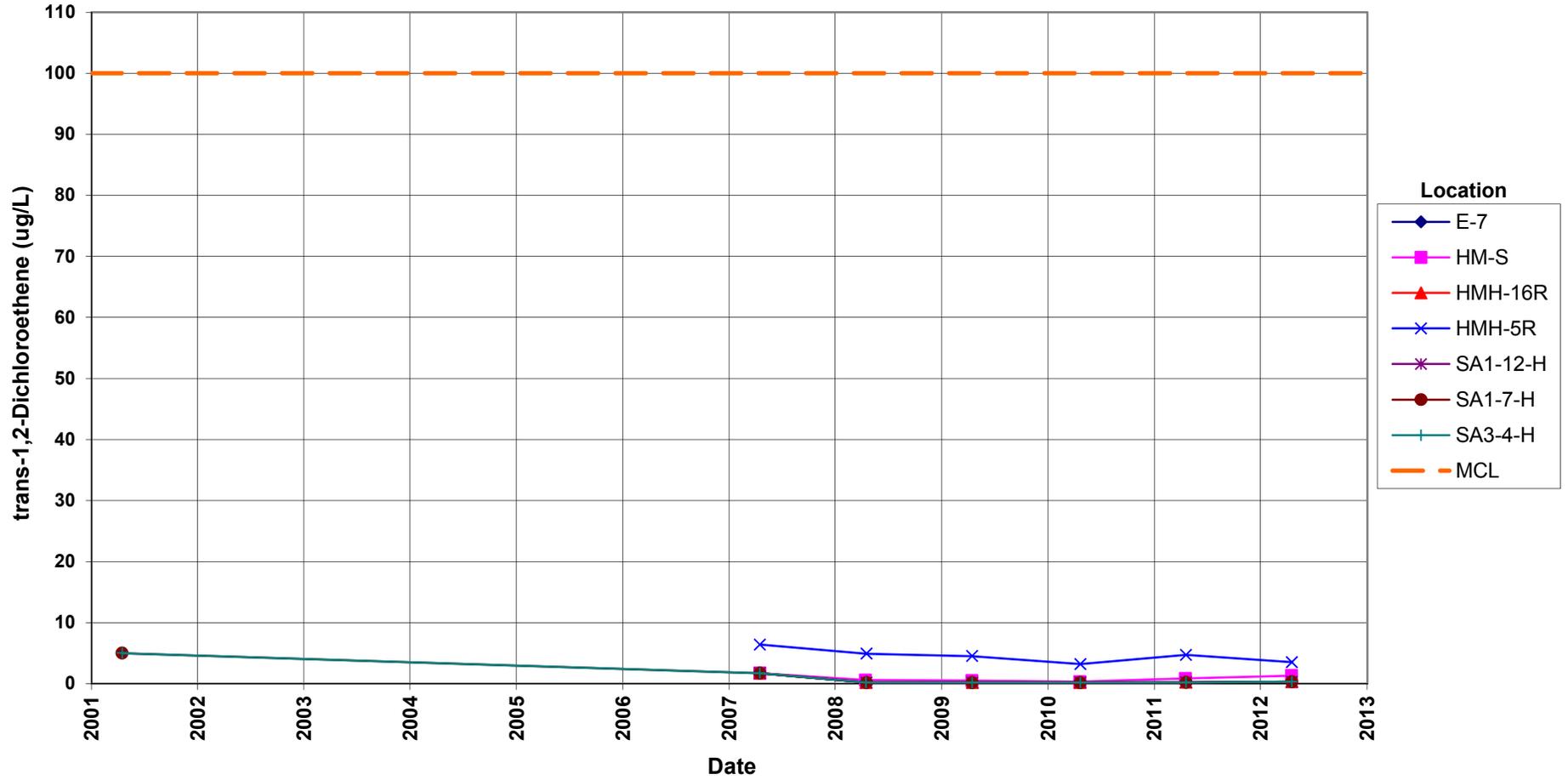
**Salmon Site**  
**cis-1,2-Dichloroethene Concentration**  
Maximum Contaminant Level (MCL) = 70 ug/L



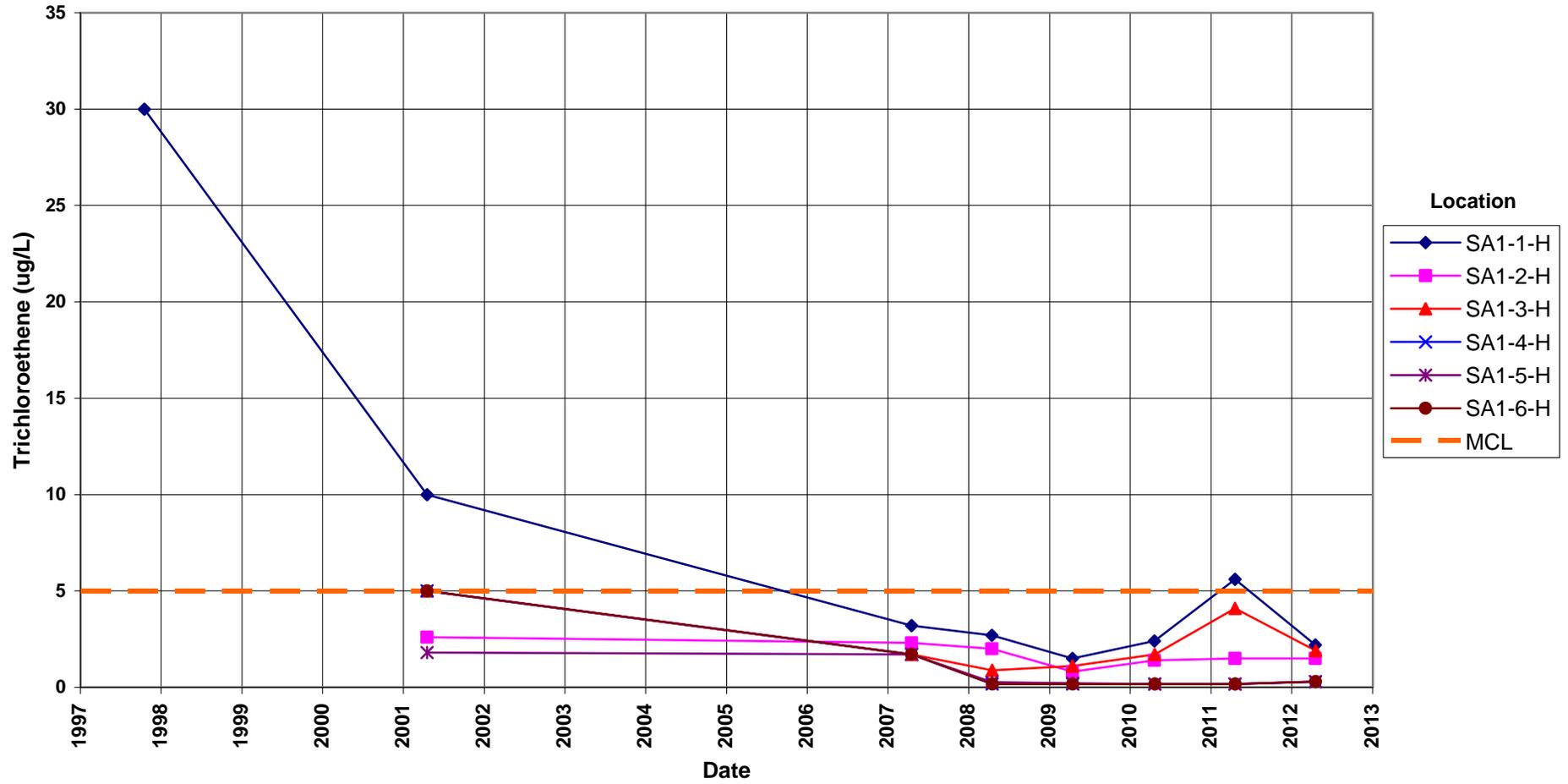
**Salmon Site**  
**trans-1,2-Dichloroethene Concentration**  
Maximum Contaminant Level (MCL) = 100 ug/L



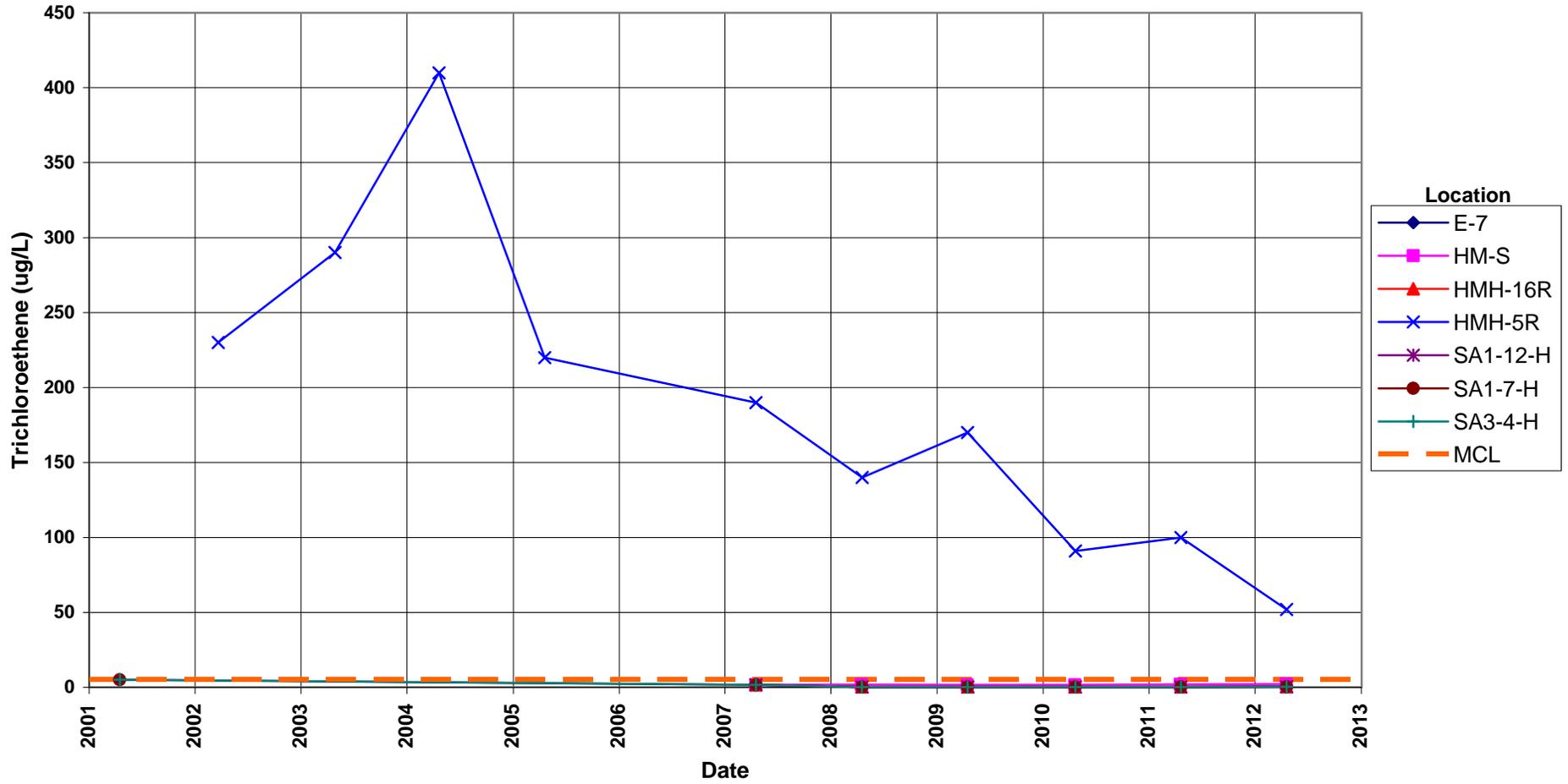
**Salmon Site**  
***trans*-1,2-Dichloroethene Concentration**  
Maximum Contaminant Level (MCL) = 100 ug/L



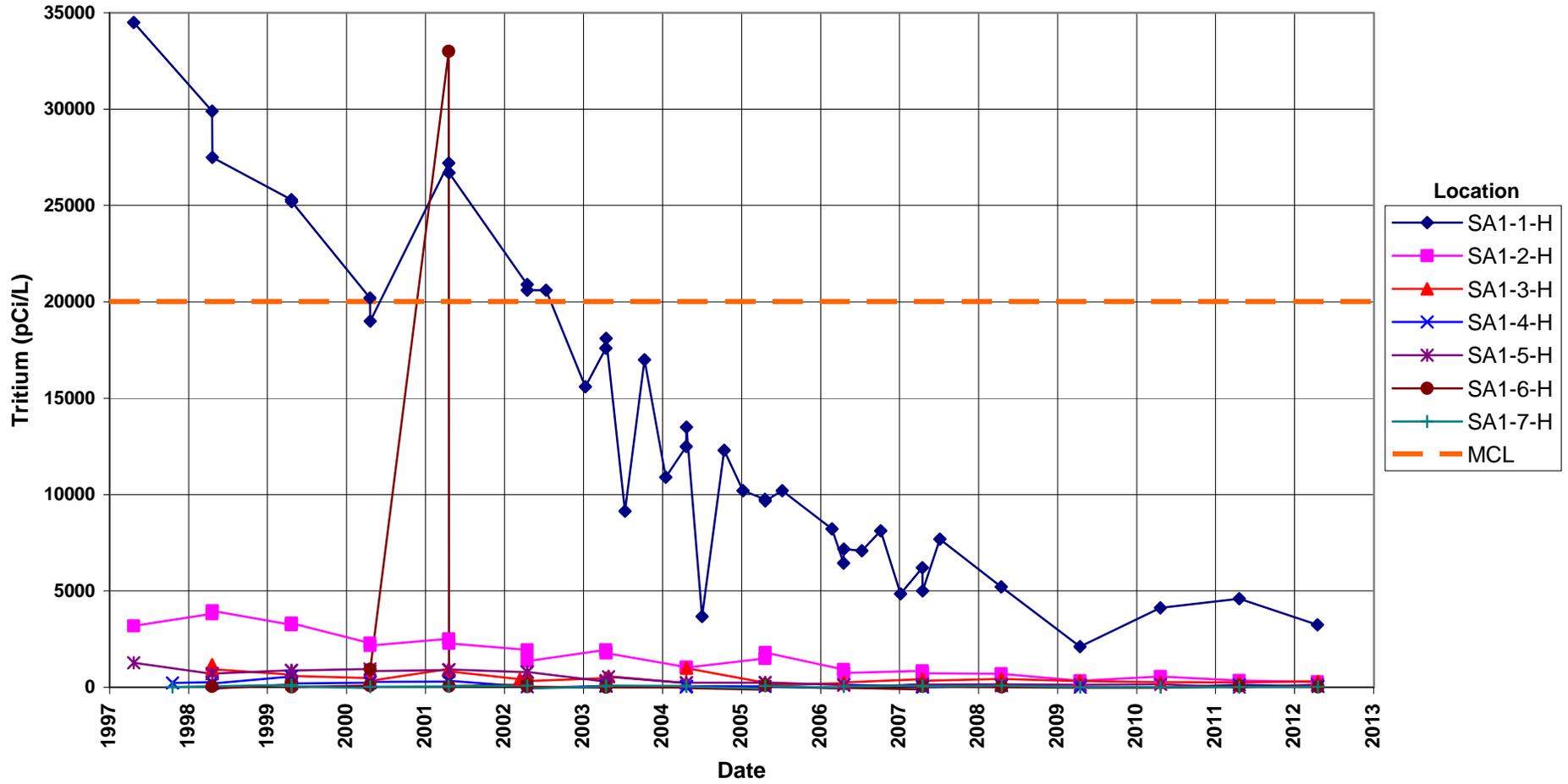
**Salmon Site**  
**Trichloroethene Concentration**  
Maximum Contaminant Level (MCL) = 5.0 ug/L



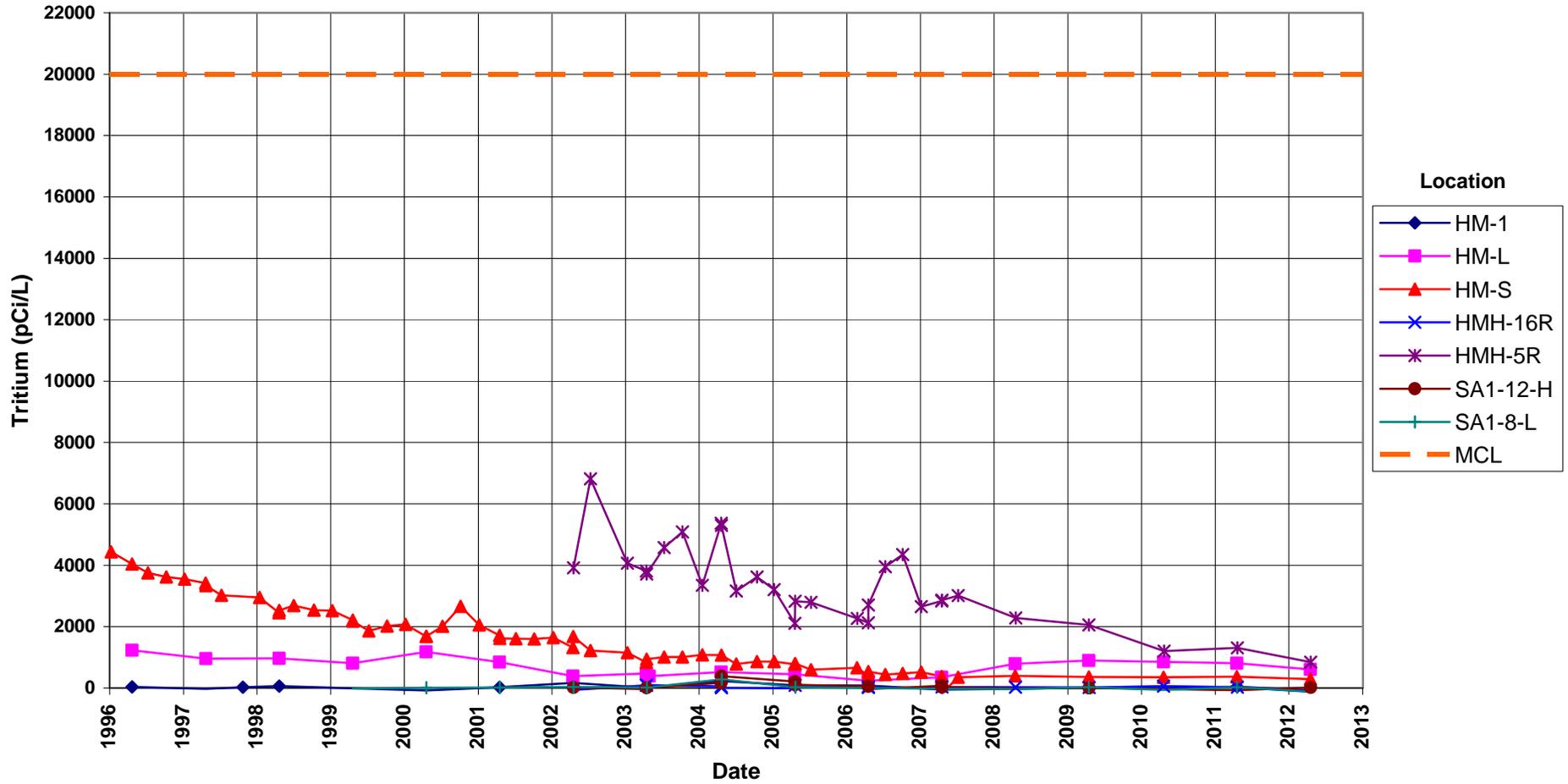
**Salmon Site**  
**Trichloroethene Concentration**  
Maximum Contaminant Level (MCL) = 5.0 ug/L



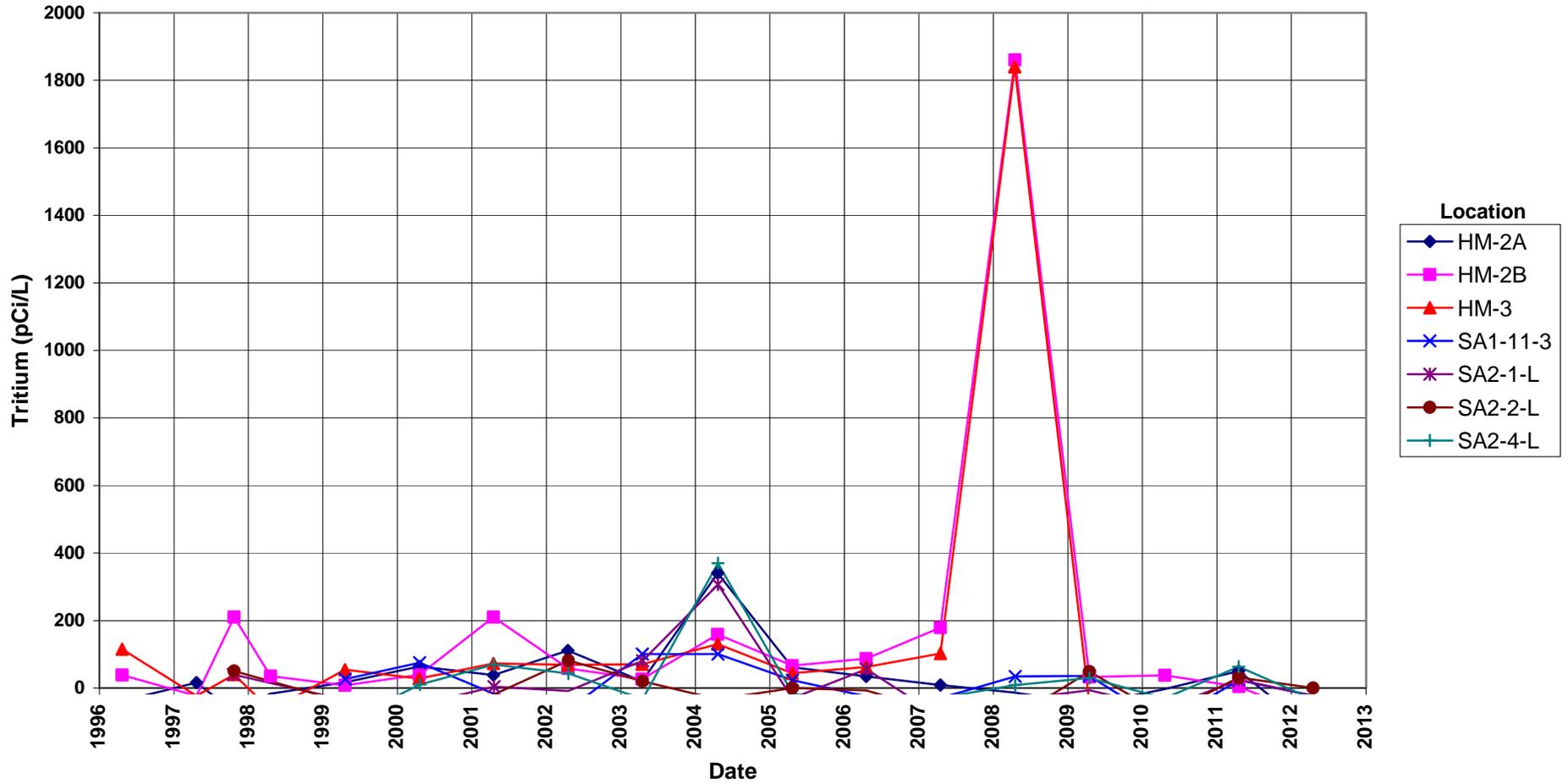
**Salmon Site**  
**Tritium Concentration**  
Maximum Contaminant Level (MCL) = 20,000 pCi/L



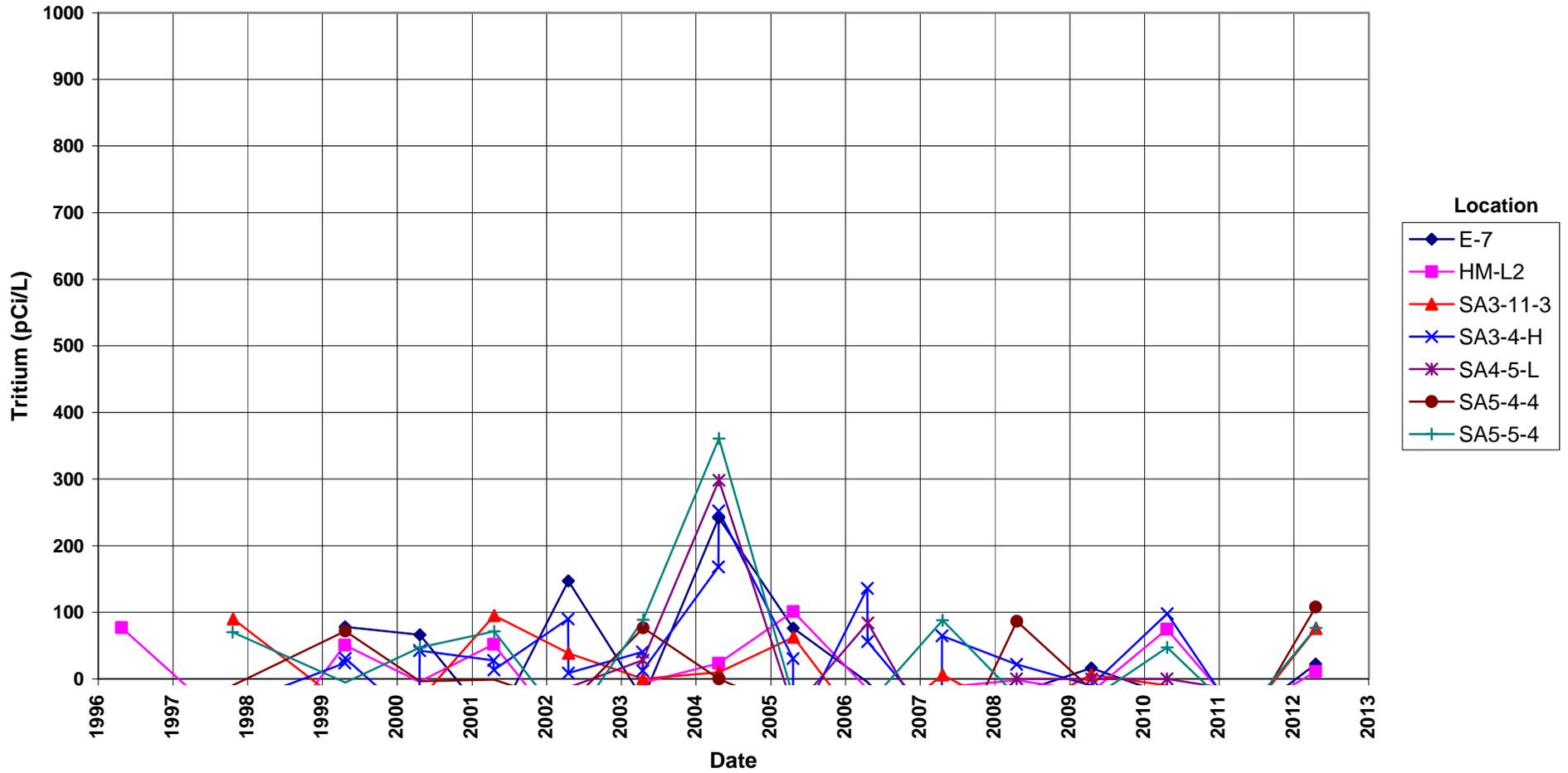
**Salmon Site**  
**Tritium Concentration**  
Maximum Contaminant Level (MCL) = 20,000 pCi/L



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



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



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**Attachment 3**  
**Sampling and Analysis Work Order**

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established 1959

Task Order LM00-502  
Control Number 12-0468

March 12, 2012

U.S. Department of Energy  
Office of Legacy Management  
ATTN: Art Kleinrath  
Site Manager  
2597 Legacy Way  
Grand Junction, CO 81503

SUBJECT: Contract No. DE-AM01-07LM00060, S.M. Stoller Corporation (Stoller)  
April 2012 Environmental Sampling at Salmon, Mississippi

REFERENCE: Task Order LM00-502-07-620, Salmon, Mississippi Site

Dear Mr. Kleinrath:

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 monitoring at the Salmon, Mississippi site. Water quality data will be collected at this site as part of the routine environmental sampling scheduled to begin the week of April 16, 2012.

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

**Monitoring Wells**

SA1-1-H	SA1-5-H	HMH-5R	HM-L	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-S	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 Sites*. Notification for access to locations on private property will be conducted prior to the beginning of fieldwork.

Please call me at (970) 248-7647 if you have any questions.

Sincerely,

**John R. Duray**

Digitally signed by John R. Duray  
DN: cn=John R. Duray, c=us, o=U.S.  
government, ou=Department of Energy,  
headquarters, people  
Date: 2012.03.12 13:06:38 -0600

Jack Duray  
Site Lead

The S.M. Stoller Corporation    2597 Legacy Way    Grand Junction, CO 81503    (970) 248-6000    Fax (970) 248-6040

Art Kleinrath  
Control Number 12-0468  
Page 2

JD/lcg/dc

Enclosures (3)

cc: (electronic)  
Steve Donovan, Stoller  
Jack Duray, Stoller  
Bev Gallagher, Stoller  
Lauren Goodknight, Stoller  
Rick Hutton, Stoller  
re-grand.junction  
File: SAL 410.02(A)

### Sampling Frequencies for Locations at Salmon, Mississippi

Location ID	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
<b>Monitoring Wells</b>						
<b>On-Site</b>						
<b>Source Area 1</b>						
SA1-1-H			X			
SA1-2-H			X			
SA1-3-H			X			
SA1-4-H			X			
SA1-5-H			X			
SA1-6-H			X			
SA1-7-H			X			
SA1-12-H			X			
HMH-5R			X			
HMH-16R			X			
HM-S			X			
SA1-8-L			X			
HM-L			X			
HM-1			X			
HM-2A			X			
HM-2B			X			
HM-3			X			
SA1-11-3			X			
<b>Source Area 2</b>						
SA2-1-L			X			
SA2-2-L			X			
SA2-4-L			X			
<b>Source Area 3</b>						
SA3-4-H			X			
E-7			X			
SA3-11-3			X			
<b>Source Area 4</b>						
HM-L2			X			
SA4-5-L			X			
<b>Source Area 5</b>						
SA5-4-4			X			
SA5-5-4			X			

Sampling conducted in April

<b>Surface Locations</b>					
<b>On-Site</b>					
HALFMOON CREEK			X		
HALFMOONCRKOVERFLOW			X		
Pond west of GZ			X		
REECO Pit (A)			X		
REECO Pit (B)			X		
REECO Pit (C)			X		
Grantham Ck Entry			X		
Half Moon Ck Entry			X		
Hick Hollow Ck Entry			X		
Half Moon Ck Exit			X		
<b>Off-Site</b>					
HickHCrTSD-East			X		Hickory Hollow Creek where it exits under the east side of Tatum Salt dome road

Sampling conducted in April

### Constituent Sampling Breakdown

Site	Salmon		Required Detection Limit (mg/L)	Analytical Method	Line Item Code
Analyte	Groundwater	Surface Water			
<b>Approx. No. Samples/yr</b>	28	11			
<b>Field Measurements</b>					
Alkalinity					
Dissolved Oxygen					
Redox Potential					
pH	X	X			
Specific Conductance	X	X			
Turbidity	X				
Temperature	X	X			
<b>Laboratory Measurements</b>					
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
Iron					
Lead	Selected wells only	Selected locations only	0.002	SW-846 6020	LMM-02
Mercury	Selected wells only	Selected locations only	0.0001	SW-846 7470	LMM-01
Nickel	Selected wells only	Selected locations only	0.02	SW-846 6010	LMM-01
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
Tritium	X	X	400 pCi/L	Liquid Scintillation	LSC-A-001

### Constituent Sampling Breakdown

Site	Salmon		Required Detection Limit (mg/L)	Analytical Method	Line Item Code
Analyte	Groundwater	Surface Water			
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
<b>Total No. of Analytes</b>	16	15			

Note: 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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*Memorandum*

DATE: 15 May 2012  
TO: Rick Hutton  
FROM: Jeff Walters and Jack Duray  
SUBJECT: Trip Report—2012 Water-Sample Collection and Inspection at the Salmon, MS,  
Site (Revised)

**Dates:** 16–20 April 2012

**Sampling Team:** David Atkinson, Cassie Gauthier, Jeff Walters, Tom Welton, and Tim Zirbes, S.M. Stoller; Karl Barber and Pam Moore, Mississippi Department of Health Radiologic Health Division

**Visitors:** See the appended list

**Monument Plaque Replacement:** Jack Duray

**Subcontractor:** Fred Windham, Fred Windham Signs, Purvis, MS

Water Sampling

**Number of Locations Sampled:** All planned samples were collected. Groundwater samples were collected from 28 onsite wells. Surface water samples were collected at 10 onsite locations and one offsite location. All well and surface locations are identified in the sampling notification letter from Stoller to the Department of Energy Office of Legacy Management (LM) on 12 March 2012.

**Locations Not Sampled/Reason:** none.

**Sampling Information:**

- Purge waters from wells SA1-1-H, SA1-3-H, SA1-7-H, SA4-5-L, and HM-3 were contained, mixed, and afterwards discarded onsite per the *Notice to File*<sup>1</sup>.
- Purge water from HMH-5R was contained and vigorously sparged for 1.7 hours. Afterwards, the purge water was sampled for volatile organic analysis (VOA). The purge water was then discarded onto the ground per the *Notice to File*.
- Surface water samples were collected to analyze for metals and tritium and to perform gamma spectroscopy analysis. Per the sampling plan, no samples were collected at the REECO pits for analysis by gamma spectroscopy.

**Quality Control Sample Cross Reference:** The keys to blind-sample identifications and the location names are given in Table 1.

*Table 1. Aliases assigned to duplicate, treated, and trip blank samples.*

Sample Ticket	Alias Name	Location Name	Sample Type	Associated Matrix	Lab
KFS 269	2323	SA1-1-H	Duplicate	Groundwater	ALS
KFS 270	2324	HMH-5R	Duplicate	Groundwater	ALS
KFS 271	2325	SA3-4-H	Duplicate	Groundwater	ALS
KFS 272	2326	SA1-2-H	Duplicate	Groundwater	ALS
KFS 273	2327	2327	Treated sample*	Groundwater	ALS
KFS 809**	2136	Trip Blank	Trip Blank	Analyte Free Water	ALS
KFS 307	2589	Pond W of GZ	Duplicate	Surface water	GEL
KFS 308	2590	SA5-4-4	Duplicate	Groundwater	GEL

\* Sparged purge water collected from well HMH-5R

\*\* Assigned temporary ticket number, ABC 123, in the field

**RIN Numbers Assigned:** Samples shipped to ALS Group Laboratory for non-radiochemistry were assigned to RIN 12044462. Samples shipped to the GEL Laboratories for radiochemistry were assigned to RIN 12044463.

**Sample Shipment:** Groundwater and surface water samples for metals analyses and VOA were shipped to ALS Group Laboratory, Fort Collins, CO. Groundwater and surface-water samples collected for tritium and enriched tritium analyses, and analyses by gamma spectroscopy, were shipped to the GEL Laboratories, Charleston, SC. These samples were shipped to ALS and GEL, respectively, via Federal Express (FedEx) from Hattiesburg, MS, on 19 April 2012.

Table 2 contains information about the samples shipped to GEL Laboratories. Table 3 contains information about the samples shipped to the ALS Group Laboratory.

---

<sup>1</sup> *Management of Purge Water for the Annual Sampling at the Salmon Site*, Notice to File, 22 February 2012

Table 2. Information about 41 samples collected at 39 locations plus 2 duplicate samples. The samples were sent to GEL Laboratories (RIN: 12044463) for radiochemistry analyses.

Sample Ticket	Location Name	Type	Sample Date	Sample Time (CT)	Analytes		Notes	Number of bottles		
					Tritium ( <sup>3</sup> H)	G-Spec		0.5 L	0.5 L	1 L
								<sup>3</sup> H	Enrich <sup>3</sup> H	G-spec
KFS 308	2590	WL	16-Apr-12	1230	X	X	D	1		2
KFS 297	HM-L2	WL	16-Apr-12	1247	X	X		1		2
KFS 274	SA1-1-H	WL	16-Apr-12	1335	X			1		
KFS 275	SA1-2-H	WL	16-Apr-12	1445	X			1		
KFS 298	SA4-5-L	WL	16-Apr-12	1502	X	X		1		2
KFS 287	HM-2A	WL	16-Apr-12	1555	X	X		1	1	2
KFS 295	E-7	WL	16-Apr-12	1648	X	X		1		2
KFS 299	SA5-4-4	WL	16-Apr-12	1655	X	X		1	1	2
KFS 289	HM-3	WL	16-Apr-12	1730	X	X		1	1	2
KFS 278	SA1-5-H	WL	16-Apr-12	1817	X		W	1	1	
KFS 296	SA3-11-3	WL	17-Apr-12	954	X	X		1		2
KFS 288	HM-2B	WL	17-Apr-12	1100	X	X		1	1	2
KFS 290	SA1-11-3	WL	17-Apr-12	1102	X	X		1		2
KFS 311	Half Moon Ck Entry	SL	17-Apr-12	1105	X	X		1		2
KFS 284	SA1-8-L	WL	17-Apr-12	1149	X	X		1	1	2
KFS 286	HM-1	WL	17-Apr-12	1225	X	X	W	1	1	2
KFS 293	SA2-4-L	WL	17-Apr-12	1313	X	X		1		2
KFS 304	REECo Pit (A)	SL	17-Apr-12	1323	X			1		
KFS 283	HM-S	WL	17-Apr-12	1330	X	X(F)		1		2
KFS 313	REECo Pit (B)	SL	17-Apr-12	1332	X			1		
KFS 314	REECo Pit (C)	SL	17-Apr-12	1340	X			1		
KFS 306	Half Moon Ck Exit	SL	17-Apr-12	1400	X	X		1		2
KFS 285	HM-L	WL	17-Apr-12	1430	X	X		1		2
KFS 292	SA2-2-L	WL	17-Apr-12	1546	X	X		1		2
KFS 300	SA5-5-4	WL	17-Apr-12	1600	X	X		1	1	2
KFS 301	HALFMOON CREEK	SL	18-Apr-12	910	X	X		1		2
KFS 305	Grantham Ck Entry	SL	18-Apr-12	935	X	X		1		2
KFS 291	SA2-1-L	WL	18-Apr-12	956	X	X		1		2
KFS 281	HMH-5R	WL	18-Apr-12	1010	X			1		
KFS 309	HickHCr.tsd East	SL	18-Apr-12	1025	X	X		1		2
KFS 310	SA1-12-H	WL	18-Apr-12	1112	X			1		
KFS 277	SA1-4-H	WL	18-Apr-12	1159	X			1		
KFS 307	2589	SL	18-Apr-12	1200	X	X	D	1		2
KFS 282	HMH-16R	WL	18-Apr-12	1227	X		W	1	1	
KFS 303	Pond west of GZ	SL	18-Apr-12	1250	X	X		1		2
KFS 312	Hick Hollow Ck Entry	SL	18-Apr-12	1340	X	X		1		2
KFS 280	SA1-7-H	WL	18-Apr-12	1342	X		W	1	1	
KFS 294	SA3-4-H	WL	18-Apr-12	1342	X			1		
KFS 302	HALFMOONCRKOVER FLOW	SL	18-Apr-12	1410	X	X(F)		1		2
KFS 279	SA 1-6-H	WL	18-Apr-12	1437	X		W	1		
KFS 276	SA1-3-H	WL	18-Apr-12	1506	X			1		

CT: Central daylight time  
 D: Duplicate sample  
 W: Well cap replaced

L: Liter  
 WL: Well location

SL: Surface location  
 X(F): Sample filtered

Table 3. Information about 38 samples collected at 32 locations plus 4 duplicate samples, 1 trip blank, and 1 treated sample. The samples were sent to ALS Group Laboratory (RIN: 12044462) for metals analyses and volatile organic analysis (VOA).

Sample Ticket	Location Name	Type	Sample Date	Sample Time (CT)	Analytes		Notes	Number of bottles	
					VOA	Metals		40 ml	250 ml
								VOA	Metals
KFS 267	HM-L2	WL	16-Apr-12	1247		X			1
KFS 248	SA1-1-H	WL	16-Apr-12	1335	X	X		3	1
KFS 269	2323	WL	16-Apr-12	1340	X	X	D	3	1
KFS 272	2326	WL	16-Apr-12	1440	X		D	3	
KFS 249	SA1-2-H	WL	16-Apr-12	1445	X	X(F)		3	1
KFS 268	SA4-5-L	WL	16-Apr-12	1502		X			1
KFS 266	E-7	WL	16-Apr-12	1648	X			3	
KFS 261	HM-3	WL	16-Apr-12	1730		X			1
KFS 252	SA1-5-H	WL	16-Apr-12	1817	X	X	W	3	1
KFS 244	Half Moon Ck Entry	SL	17-Apr-12	1105		X			1
KFS 259	SA1-8-L	WL	17-Apr-12	1149		X			1
KFS 264	SA2-4-L	WL	17-Apr-12	1313		X			1
KFS 240	REECo Pit (A)	SL	17-Apr-12	1323		X			1
KFS 258	HM-S	WL	17-Apr-12	1330	X	X(F)		3	1
KFS 246	REECo Pit (B)	SL	17-Apr-12	1332		X			1
KFS 247	REECo Pit (C)	SL	17-Apr-12	1340		X			1
KFS 242	Half Moon Ck Exit	SL	17-Apr-12	1400		X			1
KFS 260	HM-L	WL	17-Apr-12	1430		X			1
KFS 263	SA2-2-L	WL	17-Apr-12	1546		X			1
KFS 237	HALFMOON CREEK	SL	18-Apr-12	910		X			1
KFS 241	Grantham Ck Entry	SL	18-Apr-12	935		X			1
KFS 262	SA2-1-L	WL	18-Apr-12	956		X			1
KFS 256	HMH-5R	WL	18-Apr-12	1010	X	X(F)		3	1
KFS 243	HickHCr.tsd East	SL	18-Apr-12	1025		X			1
KFS 255	SA1-12-H	WL	18-Apr-12	1112	X	X		3	1
KFS 251	SA1-4-H	WL	18-Apr-12	1159	X	X		3	1
KFS 257	HMH-16R	WL	18-Apr-12	1227	X	X	W	3	1
KFS 270	2324	WL	18-Apr-12	1230	X	X(F)	D	3	1
KFS 239	Pond west of GZ	SL	18-Apr-12	1250		X			1
KFS 271	2325*	WL	18-Apr-12	1337	X	X	D	3	1
KFS 245	Hick Hollow Ck Entry	SL	18-Apr-12	1340		X			1
KFS 254	SA1-7-H	WL	18-Apr-12	1342	X	X	W	3	1
KFS 265	SA3-4-H	WL	18-Apr-12	1342	X	X		3	1
KFS 238	HALFMOONCRKOVER FLOW	SL	18-Apr-12	1410		X(F)			1
KFS 253	SA 1-6-H	WL	18-Apr-12	1437	X	X(F)	W	3	1
KFS 250	SA1-3-H	WL	18-Apr-12	1506	X	X(F)		3	1
KFS 809**	2136	NA	19-Apr-12	1030			TB		
KFS 273	2327***	TS	19-Apr-12	1130	X		TS	3	

\* Not listed in FDOS summary files. See comment in data file SAL01\_SA3-4-H\_04182012.pdf .

\*\* Assigned temporary ticket number, ABC 123, in the field

\*\*\* WasteWater\_HMH-5R

D: Duplicate sample ml: milli-liter

SL: Surface location

TB: Trip blank

TS: Treated sample

W: Well cap replaced

WL: Well location

X(F): Sample filtered

Well caps with cracked fittings were replaced prior to sample collection. A cracked fitting lets air in the bladder pump's water-line to the sample container. Wells receiving new well caps are indicated in Tables 2 and 3. The leaking connector in well HM-L2 was not replaced due to time constraints.

## Water Level Measurements

### Measurement Information:

- The cable suspending the vented water-level transducer/data logger (Troll 300, S/N 178993) in well SA5-4-4 was shortened from ~190 feet so the bottom of the transducer is at 178 feet in the water-level tube. The water-level tube is 178-feet deep.
- The cable suspending the vented water-level transducer/data logger (Troll 300, S/N 178499) in well SA5-5-4 was shortened from ~190 feet so the bottom of the transducer is at 172 feet in the water-level tube. The water-level tube is 172-feet deep.
- Data loggers were downloaded from wells HM-L, SA2-2-L, SA2-4-L, SA5-4-4, and SA5-5-4. After review, the data downloaded from HM-L was judged worthless. A faulty cable between the transducer and the surface is suspected.
- Data could not be downloaded in the field from three wells: HM-L2, SA1-8-L, and SA4-5-L. The three transducers with their cables were returned to Grand Junction. Data was retrieved from well SA4-5-L (through 12 December 2011). No data could be downloaded from the other two transducers.
- Depth-to-water-level (DTW) measurements were made in 26 of 28 wells between 0830 and 1130 on 19 April 2012. Two of the 26 measurements were not recorded in the Field Data Control System (FDCS). Measurements in the remaining two wells were done later on 19 April and recorded in FDCS at 1600 hours. Data recorded in the FDCS is stored in the data file SAL01\_4242012.pdf<sup>2</sup> and supplemented by Table 4, which lists the two unrecorded measurements. The data file is stored in the folder [\\crow\SMS\FDCS\WATER LEVELS](#).

Table 4. Depth-to-water (DTW) level data not included in file SAL01\_4242012.pdf

Site	Location	DTW (ft)	Date	Time
SAL01	SA5-5-4	164.80	19 April 2012	1015
SAL01	SA5-4-4	169.46	19 April 2012	1048

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<sup>2</sup> The date and time of the measurement recorded for well location SA1-1-H is erroneous. The actual date is 19 April 2012 and the estimated measurement time is 0834 hours, local time.

## Inspection

**Site Inspection:** A site inspection was conducted upon arrival. The primary purpose of the inspection is to assess roadways used by samplers to get to well locations. The Salmon Site Visit Report (form LMS 2135) was submitted to the NVOs Subtask Manager. Observation highlights are:

- All roads to the wells are passable but deep ruts are developing on the Main Road, the Main Road NE, and the Main Road SW. The lower roadway of Sandpit Road has severe ruts due to improper grading.
- The area surrounding each well is clear of weeds for most wells.

**Other observations:**

- The southwest gate was locked and is in good condition. A combination lock has been added to the daisy chain.
- The chain on the main gate has been tampered with; the chain is not well secured to the post.
- White paint is peeling off the protective casing surrounding well HMH-5R.
- There are new roads or opened trails onsite for logging trees. Logging began on 180 acres in the northwest corner<sup>3</sup> but was temporarily halted due to wet ground.
- There is evidence of numerous small controlled burns throughout the site.
- The Mississippi Forestry Commission was marking trees for sale while we were collecting samples.

**Institutional controls:** The deed restriction asks that the DOE be notified if a change in zoning is planned. Duray met with Lamar County Planning Department personnel to ask if a change in zoning for the site is planned.

- The site and surrounding lands are not zoned.
- Planning department personnel believe zoning this land is unlikely to change.

**Purvis Public Library:** Duray inspected the library's Salmon document collection. A new cover and spine for a binder of annual reports prepared for DOE Environmental Management from 1994 through 2006 should be replaced if an appropriate cover/spine can be printed. A binder is needed for annual reports issued since 2007. Reports since 2007 are currently stored with other reports in an egg-crate on the top shelf.

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<sup>3</sup> The land west of Half Moon Creek to the western site boundary and north, to the northern site boundary, from the line parallel with the northern boundary and passing through the drainage at the end for Red Hill Road (near well HM-L2).

## Monument Maintenance

The plaque on the monument was replaced on Friday, 20 April 2012. The language on the new plaque specifies that DOE permission is required before penetration “into the subsurface below” the site. The old plaque restriction level was “below mean sea level”. The new language is consistent with the deed restriction.

The template used by the installer, Fred Windham Signs, was returned to Grand Junction so the location of the plaque anchors can be recorded. A drawing, S0895700, has been created to show the location of the blind anchor studs on the plaque.

The old plaque was returned to the LM Salmon Site Manager.

## Other Activities

**Visitors:** Thirteen visitors including a three-person WDAM-TV news crew were visitors on Wednesday to video-tape the site and the interviews about it. The list of visitors and their affiliation is appended.

Art Kleinrath, Judy Miller, and Cassie Gauthier attended a Tuesday evening dinner in Hattiesburg with Wednesday’s site visitors to discuss the video taping.

**Emergency Response:** Duray met with Mr. James Smith, Director of the Emergency Management Agency for Lamar County, Mississippi, and his deputy, Mr. Vann Byrd. The purpose was to discuss responses to emergency scenarios (cavity breach, unauthorized cavity penetration, nearby drilling into the injection aquifer, etc.). Neither Smith nor Byrd were familiar with the Salmon site. After a brief summary about the site, both agreed with the need for cooperative planning. Smith said they were willing to mobilize if the need arises. Smith pointed out that Mississippi is in the seismic zone of the New Madrid fault. (The 1811-1812 New Madrid earthquakes are the most powerful recorded earthquakes in the eastern US.)

**Equipment:** All sampling and measurement equipment functioned properly except for four the water-level transducers. Wells were sampled using a dedicated bladder pump in each of 26 wells or by a dedicated submersible Grundfos electric pump in each of the two SA5 wells. All surface-water samples were collected by container immersion.

The two fire extinguishers used for stand-by during refueling were re-inspected and tagged by an inspection service in Hattiesburg, MS

Twenty-six, 10-foot long by 1.25-inch diameter, flush-joint PVC pipe was retrieved from Griner Drilling Service in Columbia and put in the Purvis storage unit. The pipe was excess after the July 2011 installation of a water level tube in well SA5-4-4 by Griner Drilling Service.

**Wells:** Defective well caps were returned to Grand Junction for refurbishment.

Rick Hutton  
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The distance between the top of the well-cover plate and the ground surface between the protective casing and the well was measured for both SA5 wells. The distance is 25.75 inches in well SA5-5-4 and 11.125 inches in well SA5-4-4. The engineering drawing for these wells was updated (see S08127-ASB00-001-D+).

**Field Variance:** None

**Safety Issues:** None.

**Corrective Action Required/Taken:** None.

Images taken during site activities are stored in the folder  
[\\Gull/sites\\_prod/Sites/MS/SALMON/Images/2012](\\Gull/sites_prod/Sites/MS/SALMON/Images/2012)

#### Recommendations

- Replace the transducer batteries in wells SA4-5-L (Troll 4000, S/N 11532), SA1-8-L (Troll 4000, S/N 11317) and HM-L2 (Troll 4000, S/N 11085). Test functionality. Send the transducers and their respective cables to the MS Department of Health. Ask Karl Barber to hang the assemblies in the wells during his next quarterly site visit to measure water levels.
- Replace the readout cable for the non-vented transducer in well HM-L (Troll 4000, S/N 12796). The approximate depth of the transducer is 130 feet.
- Replace well-cap flex-flow adapter (QED, Model C24) in well HM-L2.
- Consider mowing weeds around the on-site wells as needed to reduce the available fuel near each well should there be a fire. The bladder pump in each of the 26 wells is supported from the well cap by polyethylene tubing. The maximum temperature rating of polyethylene tubing is about 175 °F (79 °C).
- Remove the DOE no trespassing signs when the State of Mississippi installs its signs on the perimeter. Install an information sign to contact LM regarding surface penetration.
- Install signs indicating the 500-foot perimeter centered about the surface-ground-zero monument.
- In the next two to three years, paint the protective casings for all the wells. The casings were last painted and name tags affixed in 2007.

(JRD/JW/le)

cc: (electronic):  
Art Kleinrath, DOE  
David Atkinson  
Brian Dietz  
Darlene DePinho  
Steve Donovan

Rick Hutton  
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Cassie Gauthier  
Lauren Goodknight  
Tom Welton  
Tim Zirbes  
EDD Delivery

Site Visitors, Wednesday, 18 April 2012

<b>Name</b>	<b>Affiliation</b>
Dave Burke, Ph.D., Historian	Auburn University
Art Kleinrath	Department of Energy Office of Legacy Management
Julie McRoberts B.J. Smith	Mississippi Department of Health Radiologic Health Division
Russell Bozeman Kevin Saul Wayne Tucker	Mississippi Forestry Commission
Judy Miller	S.M. Stoller Corporation
Lois Sumrall	University of Southern Mississippi
Mon Musfielt (cameraman) Will Nunnery (producer) Ashley Surlea (reporter)	WDAM-TV, Hattiesburg, MS
Daniel Coggin	Wildlife Mississippi