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Periodic Monitoring Report for Technical Area 54 Monitoring Group, April 8–April 25, 2013

Prepared by the Environmental Programs Directorate

EP2013-0150

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EXECUTIVE SUMMARY

This periodic monitoring report (PMR) provides the results of the fiscal year 2013, third quarter, periodic monitoring event (PME) conducted by Los Alamos National Laboratory in the Technical Area 54 monitoring group. This PME was conducted pursuant to the Interim Facility-Wide Groundwater Monitoring Plan for the 2013 Monitoring Year, October 2012–September 2013, prepared in accordance with the Compliance Order on Consent.

The PME documented in this report occurred from April 8 to April 25, 2013, and included the monitoring of groundwater wells and well screens. This report also includes any results from previous PMEs that were unreported in their respective PMRs because validated laboratory data were not available (in some cases because of data release agreements). Any additional results from sampling that occurred outside the time frame of a PME are also included in this report.

Water samples collected from various locations during this PME were analyzed for metals; volatile organic compounds; semivolatile organic compounds; high explosives; radionuclides, including low-level tritium; general inorganic chemicals, including perchlorate; stable isotopes; and field parameters (alkalinity, dissolved oxygen, pH, specific conductance, temperature, and turbidity).

No surface-water locations are sampled for this monitoring group.

No results from previous sampling of PME monitoring locations reported in this PMR were above screening levels. One result from groundwater samples collected during this PME was above applicable screening levels.

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Acronyms and Abbreviations

amsl	above mean sea level
AQA	Analytical Quality Associates, Inc.
BCG	Biota Concentration Guide (DOE)
CAS	Chemical Abstracts Service
CFR	Code of Federal Regulations (U.S.)
Consent Order	Compliance Order on Consent
DCG	Derived Concentration Guide (DOE)
DOE	Department of Energy (U.S.)
EPA	Environmental Protection Agency (U.S.)
F	filtered
gpm	gallons per minute
IFGMP	Interim Facility-Wide Groundwater Monitoring Plan
LANL	Los Alamos National Laboratory
MCL	maximum contaminant level (EPA)
MCPA	2-methyl-4-chlorophenoxyacetic acid
MCPP	2-(4-chloro-2-methylphenoxy)propanoic acid
MDA	material disposal area
MDL	method detection limit
N	no (best value flag code)
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NMWQCC	New Mexico Water Quality Control Commission
PME	periodic monitoring event
PMR	periodic monitoring report
PQL	practical quantitation limit
QC	quality control
RPF	Records Processing Facility
SOP	standard operating procedure
TA	technical area
Y	yes (best value flag code)

1.0 INTRODUCTION

This periodic monitoring report (PMR) provides documentation of fiscal year 2013, third quarter, semiannual groundwater monitoring conducted by Los Alamos National Laboratory (LANL or the Laboratory) in the Technical Area 54 (TA-54) monitoring group. Monitoring was conducted pursuant to the Interim Facility-Wide Groundwater Monitoring Plan for the 2013 Monitoring Year, October 2012–September 2013 (2013 IFGMP) (LANL 2012, 225493), which was prepared in accordance with the Compliance Order on Consent (the Consent Order). The periodic monitoring event (PME) occurred from April 8 to April 25, 2013, and included sampling of groundwater wells and well screens.

This report also includes any results from previous PMEs that were unreported in their respective PMRs because validated laboratory data were not available (in some cases because of data release agreements). Any additional results from sampling that occurred outside the time frame of a PME are also included in this report.

Sections VIII.A and VIII.C of the Consent Order identify New Mexico Water Quality Control Commission (NMWQCC) groundwater and surface-water standards, including alternative abatement standards and U.S. Environmental Protection Agency (EPA) drinking water maximum contaminant levels (MCLs), as cleanup levels for groundwater when corrective action is implemented. NMWQCC groundwater standards, MCLs, and EPA regional screening levels for tap water are used as screening levels for monitoring data and are provided in this report.

This report presents the following information:

- general background information on the monitoring group
- field-measurement monitoring results
- water-quality monitoring results
- screening analysis results (comparing these PME results with regulatory standards and results from previous reports)
- a summary based on the data and the screening analysis

Information on radioactive materials and radionuclides, including the results of sampling and analysis of radioactive constituents, is voluntarily provided to the New Mexico Environment Department (NMED) in accordance with U.S. Department of Energy (DOE) policy.

1.1 Background

At TA-54, groundwater monitoring is conducted to support both (1) the corrective measures process for solid waste management units and areas of concern (particularly Material Disposal Areas [MDAs] G, H, and L) under the Consent Order and (2) the Resource Conservation and Recovery Act permit. The TA-54 monitoring group was established to address the monitoring requirements for all portions and aspects of TA-54. The TA-54 monitoring group includes both intermediate-perched and regional wells in the near vicinity. Other downgradient wells have general relevance to TA-54 and other upgradient sources but are not considered part of the TA-54 monitoring network and are not included in the monitoring group.

TA-54 is situated in the east-central portion of the Laboratory on Mesita del Buey. TA-54 includes four MDAs designated as G, H, J, and L; a waste characterization, container storage, and transfer facility (TA-54 West); active radioactive waste storage and disposal operations at Area G; hazardous and mixed-

waste storage operations at Area L; and administrative and support areas. The transfer facility is located at the western end of TA-54.

Mesita del Buey is a 100-ft- to 140-ft-high finger-shaped mesa that trends southeast. The elevation of Mesita del Buey ranges from 6750 ft to 6670 ft above mean sea level (amsl) at Area G. The mesa is approximately 500 ft wide and is bounded by Cañada del Buey and Pajarito Canyon.

The TA-54 monitoring group is located predominantly in the Pajarito Canyon watershed, and the occurrence of surface water, alluvial groundwater, and intermediate-perched and regional groundwater is discussed in the Pajarito Canyon Investigation Report, Revision 1 (LANL 2009, 106939).

Pore-gas monitoring data show vapor-phase organic compounds are present in the upper portion of the unsaturated zone beneath MDAs G and L. The primary contaminants that have been transported in the vapor phase at TA-54 are 1,1,1-trichloroethane; trichloroethene; Freon-113; and tritium (LANL 2005, 090513; LANL 2006, 091888; LANL 2007, 096409).

Data from the groundwater monitoring network around TA-54 show sporadic detections of a variety of contaminants, including several vapor-phase organic compounds. The temporal and spatial nature of the occurrences does not, however, clearly indicate the presence of a source related to potential sources at TA-54 (LANL 2009, 106939). Further evaluations of existing groundwater data near TA-54 and detailed descriptions of organic and inorganic contaminants detected in intermediate-perched and regional groundwater at TA-54 are presented in the corrective measures evaluation reports for MDAs G, H, and L (LANL 2011, 205756; LANL 2011, 206319; LANL 2011, 206324).

2.0 SCOPE OF ACTIVITIES

The PME for the TA-54 monitoring group was conducted pursuant to the 2013 IFGMP (LANL 2012, 225493).

Table 2.0-1 provides the location name, sample collection date, screened interval, top and bottom screen depths, casing volume, purge volume, and purge rate for each of the locations scheduled to be monitored. These locations are shown in Figure 2.0-1. Some locations on this map may not have been sampled.

3.0 MONITORING RESULTS

3.1 Methods and Procedures

All methods and procedures used to perform the field activities associated with the PME are documented in the 2013 IFGMP (LANL 2012, 225493).

3.2 Field Parameter Results

Appendix A contains the field parameter results for this PME and the four previous PMEs.

3.3 Groundwater Elevations and Base-Flow Observations

The periodic monitoring water-level data for the previous 2 yr are presented in Appendix B (on CD included with this document). For wells equipped with transducers, the reported water level is the water-level measurement taken earliest on the day of sampling. All manual measurements were recorded

immediately before sampling. The groundwater-elevation measurements are shown graphically on Plate 1. No surface-water locations are sampled for this monitoring group.

3.4 Deviations from Planned Scope

Table 3.4-1 describes the fieldwork deviations from the planned scope of the PME. Table 3.4-2 presents a list of analytes for which the practical quantitation limits (PQLs) are greater than screening levels.

4.0 ANALYTICAL DATA RESULTS

4.1 Methods and Procedures

All methods and procedures used to perform the analytical activities of the PME are documented in the 2013 IFGMP (LANL 2012, 225493). Purge water is managed and characterized in accordance with waste profile form 39268, a copy of which was included in Appendix F of a previous PMR (LANL 2008, 103737), and ENV-RCRA-QP-010.3, Land Application of Groundwater. ENV-RCRA-QP-010.3 implements the NMED-approved Notice of Intent Decision Tree for land application of drilling, development, rehabilitation, and sampling of purge water.

All sampling, data reviews, and data package validations were conducted using standard operating procedures (SOPs) that are part of a comprehensive quality assurance program. The procedures are available at http://www.lanl.gov/community-environment/environmental-stewardship/plans-procedures.php. Completed chain-of-custody forms serve as analytical request forms and include the requester or owner, sample number, program code, date and time of sample collection, total number of bottles, list of analytes to be measured, bottle sizes, and preservatives for each required analysis.

The required analytical laboratory batch quality control (QC) is defined by the analytical method, the analytical statement of work, and generally accepted laboratory practices. The analytical laboratory assigns qualifiers to the data to indicate the quality of the analytical results. The laboratory batch QC is used in the secondary data validation process to evaluate the quality of individual analytical results, evaluate the appropriateness of the analytical methodologies, and measure the routine performance of the analytical laboratory.

In addition to batch QC performed by laboratories, the Laboratory submitted field QC samples to test the overall sampling and analytical laboratory process and to spot-check for analytical problems. These results are used in secondary validation along with information provided by the analytical laboratory.

After the Laboratory receives the analytical laboratory data packages, the packages receive secondary validation. For data collected before March 2012, validation was done by an independent contractor, Analytical Quality Associates, Inc. (AQA). After that date, validation is done by an automated process after data are loaded.

Data validation determines the quality of an analytical data set. Data validation focuses on specific quality assurance samples, such as matrix spikes, duplicates, surrogates, method blanks, and laboratory control samples, and holding times, which indicate the accuracy and precision of the analyses. Based on the results, data qualifiers are applied to indicate data quality issues as well as the usability of results. This process also includes a description of the reasons for any failure to meet method, procedural, or contractual requirements and an evaluation of the impact of such failure on the overall data set.

AQA's reviews follow the guidelines set in the DOE model SOP for data validation, which includes reviewing the data quality and the documentation's correctness and completeness, verifying that holding times were met, and ensuring that analytical laboratory QC measures were applied, documented, and kept within contract requirements. As a result of secondary validation, a second set of qualifiers was assigned to the analytical results.

Auto validation (1) ensures that the electronic data deliverable contains all the required fields, (2) verifies that results of all QC checks and procedures are within valid criteria limits, and (3) applies specific qualifiers and reason codes per the EPA's National Functional Guidelines for data review as well as the Laboratory's SOPs. Once auto validation is complete, the data are uploaded into the Laboratory's database system and the public database (http://intellusnm.com/).

The Laboratory assigns detection status to the analytical result based on the analytical laboratory and secondary validation qualifiers. A detect flag of "N" indicates that, based on the qualifiers, the result was not detected.

4.2 Analytical Data

Appendix C presents the analytical data from this PME and from the four sampling events at these locations immediately before the PME. The analytical laboratory reports (including chain-of-custody forms and data validation forms) are provided in Appendix F (on CD included with this document).

Appendix C contains all data collected during the PME (i.e., all data that have been independently reviewed for conformance with Laboratory requirements) with the following constraints.

- All data
  - ❖ Data that are R-qualified (rejected because of noncompliance regarding QC acceptance criteria) during independent validation are considered unusable but are still reported.
  - ❖ Analytical laboratory QC results, including matrix spike and matrix spike duplicates, and field blanks, trip blanks, and equipment blanks are not included in the data set.
  - ❖ Field duplicates, reanalyses, and results from different analytical methods are reported.
- Radionuclides
  - ❖ Only cesium-137, cobalt-60, neptunium-237, potassium-40, and sodium-22 are reported (or analyzed) for the gamma spectroscopy suite.
  - ❖ Americium-241 and uranium-235 are reported only by chemical separation alpha spectroscopy. No gamma spectroscopy results are presented for these analytes.
  - ❖ Otherwise, all results are reported at all locations.
- Nonradionuclides
  - ❖ All detected results are reported.

Multiple analyses of a sample, including dilutions and reanalyses, create redundant results. These multiple results have the same sample ID, analytical laboratory code, and analytical method. The analytical and validation information are used to designate the preferred result, which is marked with a best value flag of "Y" (yes). The redundant values of lower quality are assigned a best value flag of "N" (no). In cases where a reanalysis gives a significantly different result than an earlier value, the original

result may be rejected and assigned a best value flag of N, and the reanalysis result may be marked with a best value flag of Y. The best value flag is included in Appendix C.

Data for PMRs are evaluated using the following screening process. The sources of screening levels with which the results are compared are listed in Table 4.2-1.

- The base-flow monitoring locations are assigned to one of two screening categories—perennial or ephemeral. Along with a hardness value, this category determines the screening levels used for data at each monitoring location. Hardness-dependent screening levels used to screen data at each base-flow monitoring location are determined using the geometric mean of hardness data (mg/L as calcium carbonate) collected from 2006 to 2010 at each location. Hardness-dependent acute and chronic criteria were used for total aluminum and dissolved cadmium, chromium, copper, lead, manganese, nickel, silver, and zinc in accordance with the requirements of 20 New Mexico Administrative Code (NMAC) 6.4.
- Surface-water and groundwater perchlorate data were compared with the screening level of 4 µg/L established in Section VIII.A.1.a of the Consent Order.
- Other groundwater data are screened to Groundwater Cleanup Levels described in Section VIII.A.1 of the Consent Order; for an individual substance, the lesser of the EPA MCL or the NMWQCC groundwater standard is used.
- If an NMWQCC standard or an MCL has not been established for a specific substance for which toxicological information is published, the EPA Regional Screening Levels for Tap Water (formerly Region 6 Screening Levels for Tap Water) are used as the Groundwater Cleanup Level. These screening levels are for either a cancer- or noncancer-risk type. The Consent Order specifies screening at a 10^{-5} excess cancer risk. The EPA screening levels are for 10^{-6} excess cancer risk, so 10 times the EPA 10^{-6} screening levels are used for screening.
- The NMWQCC groundwater standards apply to the dissolved (filtered) portion of specified contaminants; however, the standards for mercury, organic compounds, and nonaqueous-phase liquids apply to the total unfiltered concentrations of the contaminants. EPA MCLs are applied to both filtered and unfiltered sample results.
- The analytical results for radioactivity are compared with the DOE Biota Concentration Guides (BCGs) for surface water and Derived Concentration Guides (DCGs) for groundwater.

The results of data screening for this PMR are presented in Appendix D. This appendix shows all analytical results greater than half the lowest applicable screening levels. Results with a best value flag of N are included in Appendix D but not discussed in the text.

Table 4.2-2 provides groundwater analytical results (by hydrogeologic zone for a specific analytical suite) that are above screening levels. Multiple detections of a particular constituent at a location are counted as one result. For example, if aluminum is detected above a screening level in both a primary sample and a field duplicate, only the highest result is shown.

Graphs in Appendix E display concentration histories of analytes for locations where the analyte was above its screening level at least once during the three most recent PMEs. Concentrations of the analyte are plotted for a 3-yr period. If 3 yr of data are not available, then all available results for the analyte are plotted. When shown, the solid red lines depict applicable screening levels. Results with a best value flag of N are not included in Appendix E.

No analytes from the current PME exceeded their screening level at more than one sampling location, so no maps showing concentrations are included.

4.2.1 Surface Water (Base Flow)

No surface-water locations are included in this monitoring group.

4.2.2 Groundwater

No results from previous sampling of PME monitoring locations reported in this PMR were above screening levels.

For the current PME, the filtered manganese result of 282 µg/L at intermediate well R-40 Si was above the 200-µg/L NMWQCC groundwater standard screening level (applicable to domestic water supply). The filtered manganese result from another sample collected after purging six casing volumes was 245 µg/L; that sample was collected to evaluate well performance and is not a monitoring sample. Previous manganese concentrations range between 106 µg/L and 398 µg/L.

4.3 Sampling Program Modifications

No modifications to the periodic monitoring sampling for the TA-54 monitoring group are proposed at this time.

5.0 SUMMARY AND INTERPRETATIONS

5.1 Monitoring Results

The field parameter monitoring results are presented in Appendix A.

5.2 Analytical Results

5.2.1 Surface Water (Base Flow)

No surface-water locations are included in this monitoring group.

5.2.2 Groundwater

No results from previous sampling of PME monitoring locations are reported in this PMR. One result from groundwater samples collected during this PME was above screening levels (Table 4.2-2).

For results above screening levels, the types of contaminants detected and their concentrations are consistent with data reported from previous PMEs in this monitoring group.

5.3 Data Gaps

Table 3.4-1 summarizes the field deviations encountered during the PME. The table also provides a detailed account of sampling event deviations.

5.4 Remediation System Monitoring

Remediation system monitoring is not applicable to the TA-54 monitoring group because no systems are installed in the monitoring group area.

6.0 REFERENCES

The following list includes all documents cited in this report. Parenthetical information following each reference provides the author(s), publication date, and ER ID. This information is also included in text citations. ER IDs are assigned by the Environmental Programs Directorate's Records Processing Facility (RPF) and are used to locate the document at the RPF and, where applicable, in the master reference set.

Copies of the master reference set are maintained at the NMED Hazardous Waste Bureau and the Directorate. The set was developed to ensure that the administrative authority has all material needed to review this document, and it is updated with every document submitted to the administrative authority. Documents previously submitted to the administrative authority are not included.

LANL (Los Alamos National Laboratory), September 2005. "Investigation Report for Material Disposal Area G, Consolidated Unit 54-013(b)-99, at Technical Area 54," Los Alamos National Laboratory document LA-UR-05-6398, Los Alamos, New Mexico. (LANL 2005, 090513)

LANL (Los Alamos National Laboratory), March 2006. "Investigation Report for Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54, Revision 1," Los Alamos National Laboratory document LA-UR-06-1564, Los Alamos, New Mexico. (LANL 2006, 091888)

LANL (Los Alamos National Laboratory), May 2007. "Addendum to the Investigation Report for Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54," Los Alamos National Laboratory document LA-UR-07-3214, Los Alamos, New Mexico. (LANL 2007, 096409)

LANL (Los Alamos National Laboratory), September 2008. "Periodic Monitoring Report for White Rock Watershed, April 23–April 30, 2008," Los Alamos National Laboratory document LA-UR-08-5847, Los Alamos, New Mexico. (LANL 2008, 103737)

LANL (Los Alamos National Laboratory), August 2009. "Pajarito Canyon Investigation Report, Revision 1," Los Alamos National Laboratory document LA-UR-09-4670, Los Alamos, New Mexico. (LANL 2009, 106939)

LANL (Los Alamos National Laboratory), September 2011. "Corrective Measures Evaluation Report for Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54, Revision 2," Los Alamos National Laboratory document LA-UR-11-4798, Los Alamos, New Mexico. (LANL 2011, 205756)

LANL (Los Alamos National Laboratory), September 2011. "Corrective Measures Evaluation Report for Material Disposal Area H, Solid Waste Management Unit 54-004, at Technical Area 54, Revision 1," Los Alamos National Laboratory document LA-UR-11-5079, Los Alamos, New Mexico. (LANL 2011, 206319)

LANL (Los Alamos National Laboratory), September 2011. "Corrective Measures Evaluation Report for Material Disposal Area G, Solid Waste Management Unit 54-013(b)-99, at Technical Area 54, Revision 3," Los Alamos National Laboratory document LA-UR-11-4910, Los Alamos, New Mexico. (LANL 2011, 206324)

LANL (Los Alamos National Laboratory), August 2012. "Interim Facility-Wide Groundwater Monitoring Plan for the 2013 Monitoring Year, October 2012–September 2013," Los Alamos National Laboratory document LA-UR-12-21331, Los Alamos, New Mexico. (LANL 2012, 225493)

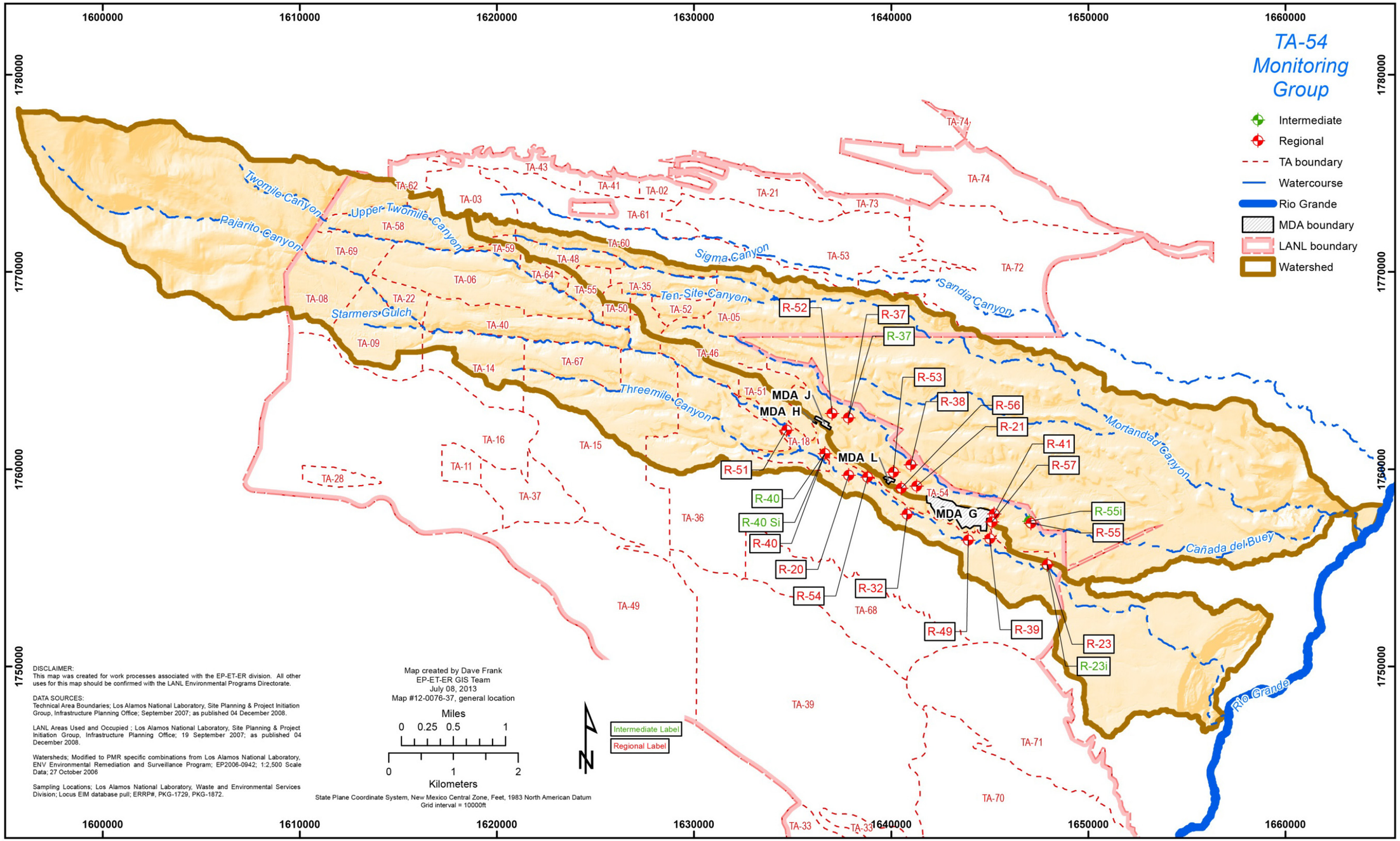


Figure 2.0-1 Locations monitored for this PME. Some locations on this map may not have been sampled (see Table 3.4-1).

Table 2.0-1
TA-54 Monitoring Group Locations and General Information

Location Name	Sample Collection Date	Screen Interval (ft)	Top Screen Depth (ft)	Bottom Screen Depth (ft)	Calculated Single Casing Volume (gal.)	Purge Volume (gal.)	Purge Rate (gpm*)
Intermediate							
R-23i S1	04/22/13	19.7	400.3	420	3.33	25.2	1.20
R-23i S2	04/22/13	9.9	470.2	480.1	37	111.60	1.20
R-23i S3	04/23/13	23	524	547	42.5	129.20	1.7
R-37 S1	04/17/13	20.7	929.3	950	50.5	152	0.80
R-40 S1	04/16/13	33.47	751.59	785.06	30.2	36.76	0.50
R-40 Si	04/24/13	19.35	649.67	669.02	12.9	78	0.50
R-55i	04/18/13	21.1	510	531.1	44	175	2.5
Regional							
R-20 S1	04/10/13	7.6	904.6	912.2	70.4	211	0.70
R-20 S2	04/08/13	7.6	1147.1	1154.7	41.0	123.1	1.6
R-21	04/22/13	18	888.8	906.8	202.6	608	3.2
R-23	04/23/13	57.2	816	873.2	45.2	150	10
R-32 S1	04/09/13	7.7	867.5	875.2	88.5	265.5	2.1
R-37 S2	04/11/13	20.6	1026	1046.6	53.5	164	9.4
R-38	04/11/13	10	821.2	831.2	42.3	127.5	2.9
R-39	04/09/13	10	859	869	48.6	165	3
R-40 S2	04/16/13	20.73	849.27	870	39.1	117.3	2
R-41 S2	04/09/13	9.7	965.3	975	36.4	110.2	2.9
R-49 S1	04/15/13	10	845	855	78.8	237.9	1.3
R-49 S2	04/19/13	20.8	905.6	926.4	58.2	175	2.4
R-51 S1	04/25/13	10.28	914.96	925.24	61.1	262.5	3.75
R-51 S2	04/25/13	10.04	1030.96	1041	91.10	274	3.75
R-52 S1	04/11/13	20.5	1035.24	1055.7	63.5	191.4	3.3
R-52 S2	04/11/13	10	1107	1117	43	165	3.30
R-53 S1	04/08/13	10	849.2	859.2	77.5	236	4.0
R-53 S2	04/08/13	20.5	959.7	980.2	94.5	284	4.0
R-54 S1	04/16/13	10	830	840	54.4	170.5	3.1
R-54 S2	04/16/13	10	915	925	61.2	201.5	3.1
R-55 S1	04/18/13	20.6	860	880.6	111.6	335	2.86
R-55 S2	04/18/13	21	994.4	1015.4	72.40	220	2.68
R-56 S1	04/24/13	20.6	945	965.6	84.9	256	4.0
R-56 S2	04/24/13	20.5	1046.6	1067.1	68.7	208	4.0
R-57 S1	04/10/13	20.5	910	930.5	70.5	212	3.5
R-57 S2	04/10/13	20.6	971.5	992.1	51.00	153	3.5

*gpm =Gallons per minute.

Table 3.4-1
TA-54 Monitoring Group PME Observations and Deviations

Location	Deviation	Cause	Comment
n/a*	n/a	n/a	No deviations for this PME

*n/a = Not applicable.

Table 3.4-2
Analytes with PQLs above Screening Levels

Analyte or CAS[a] No.	Analyte Name	MDL[b]	PQL	Screening Level	Unit	Screening-Level Type
Herbicides						
94-74-6	MCPA[c]	12	53	18	µg/L	EPA Regional Tap
93-65-2	MCPP[d]	11	53	37	µg/L	EPA Regional Tap
Metals						
Be	Beryllium	1	5	4	µg/L	EPA MCL
Semivolatile Organic Compounds						
1912-24-9	Atrazine	3	10	3	µg/L	EPA MCL
103-33-3	Azobenzene	2	10	1.3	µg/L	EPA Regional Tap
92-87-5	Benzidine	3	10	0.00094	µg/L	EPA Regional Tap
56-55-3	Benzo(a)anthracene	0.2	1	0.29	µg/L	EPA Regional Tap
50-32-8	Benzo(a)pyrene	0.2	1	0.2	µg/L	EPA MCL
205-99-2	Benzo(b)fluoranthene	0.2	1	0.29	µg/L	EPA Regional Tap
111-44-4	Bis(2-chloroethyl)ether	2	10	0.12	µg/L	EPA Regional Tap
117-81-7	Bis(2-ethylhexyl)phthalate	2	10	6	µg/L	EPA MCL
106-47-8	Chloroaniline[4-]	2	10	3.4	µg/L	EPA Regional Tap
53-70-3	Dibenz(a,h)anthracene	0.2	1	0.029	µg/L	EPA Regional Tap
91-94-1	Dichlorobenzidine[3,3'-]	2	10	1.5	µg/L	EPA Regional Tap
534-52-1	Dinitro-2-methylphenol[4,6-]	3	10	2.9	µg/L	EPA Regional Tap
123-91-1	Dioxane[1,4-]	2	10	6.7	µg/L	EPA Regional Tap
118-74-1	Hexachlorobenzene	2	10	1	µg/L	EPA MCL
193-39-5	Indeno(1,2,3-cd)pyrene	0.2	1	0.29	µg/L	EPA Regional Tap
55-18-5	Nitrosodiethylamine[N-]	2	10	0.0014	µg/L	EPA Regional Tap
62-75-9	Nitrosodimethylamine[N-]	2	10	0.0042	µg/L	EPA Regional Tap
924-16-3	Nitroso-di-n-butylamine[N-]	3	10	0.024	µg/L	EPA Regional Tap
621-64-7	Nitroso-di-n-propylamine[N-]	2	10	0.096	µg/L	EPA Regional Tap
930-55-2	Nitrosopyrrolidine[N-]	2	10	0.32	µg/L	EPA Regional Tap
108-60-1	Oxybis(1-chloropropane) [2,2'-]	2	10	3.2	µg/L	EPA Regional Tap
87-86-5	Pentachlorophenol	2	10	1	µg/L	EPA MCL
108-95-2	Phenol	1	10	5	µg/L	NMWQCC Groundwater Standard

Table 3.4-2 (continued)

Analyte or CAS[a] No.	Analyte Name	MDL[b]	PQL	Screening Level	Unit	Screening-Level Type
Volatile Organic Compounds						
107-02-8	Acrolein	1.3	5	0.042	µg/L	EPA Regional Tap
107-13-1	Acrylonitrile	1	5	0.45	µg/L	EPA Regional Tap
126-99-8	Chloro-1,3-butadiene[2-]	0.3	1	0.16	µg/L	EPA Regional Tap
96-12-8	Dibromo-3-chloropropane[1,2-]	0.3	1	0.2	µg/L	EPA MCL
106-93-4	Dibromoethane[1,2-]	0.25	1	0.05	µg/L	EPA MCL
126-98-7	Methacrylonitrile	1	5	1	µg/L	EPA Regional Tap
75-09-2	Methylene chloride	3	10	5	µg/L	EPA MCL
96-18-4	Trichloropropane[1,2,3-]	0.3	1	0.0072	µg/L	EPA Regional Tap

Note: This table is applicable to all samples reported in all PMRs.

[a] CAS = Chemical Abstracts Service.

[b] MDL = Method detection limit.

[c] MCPA = 2-Methyl-4-chlorophenoxyacetic acid.

[d] MCPP = 2-(4-Chloro-2-methylphenoxy)propanoic acid.

Table 4.2-1
Sources of Screening Levels for Groundwater and Surface Water at Los Alamos National Laboratory

Standard Source	Standard Type	Groundwater	Surface Water
DOE Order 5400.5	DOE BCGs	n/a[a]	X[b]
DOE Order 5400.5	DOE 100-mrem Public Dose DCG	X	n/a
DOE Order 5400.5	DOE 4-mrem Drinking Water DCG	X	n/a
40 CFR[c] 141	EPA Primary Drinking Water Standard	X	n/a
EPA Regional Screening Levels for Chemical Contaminants at Superfund Sites	EPA Regional Screening Levels for Tap Water	X	n/a
20 NMAC.3.4	New Mexico Environmental Improvement Board Radiation Protection Standards	X	X
20 NMAC 6.2	NMWQCC Groundwater Standard	X	n/a
20 NMAC 6.4	NMWQCC Irrigation Standard	n/a	X
20 NMAC 6.4	NMWQCC Livestock Watering Standard	n/a	X
20 NMAC 6.4	NMWQCC Wildlife Habitat Standard	n/a	X
20 NMAC 6.4	NMWQCC Aquatic Life Standards Acute	n/a	X
20 NMAC 6.4	NMWQCC Aquatic Life Standards Chronic	n/a	X
20 NMAC 6.4	NMWQCC Human Health Standard	n/a	X

[a] n/a = Not applicable.

[b] X = Applied to data screen for this report.

[c] CFR = Code of Federal Regulations.

Table 4.2-2
TA-54 Monitoring Group Groundwater Results above Screening Levels

Location	Date	Analyte	Field Prep Code	Result	Unit	Screening Level	Screening-Level Type
Intermediate Groundwater							
R-40 Si	04/24/13	Manganese	F*	282	µg/L	200	NMWQCC Groundwater Standard

*F = Filtered.

Appendix A

Field Parameter Results, Including Results from Previous Four Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-20 S1	904.6	04/10/13	WG[a]	Dissolved Oxygen	1.92	mg/L	CAPA-13-29560
R-20 S1	904.6	10/16/12	WG	Dissolved Oxygen	1.4	mg/L	CAPA-12-23795
R-20 S1	904.6	05/03/12	WG	Dissolved Oxygen	1.26	mg/L	CAPA-12-13225
R-20 S1	904.6	07/27/11	WG	Dissolved Oxygen	2.27	mg/L	CAPA-11-22877
R-20 S1	904.6	04/20/11	WG	Dissolved Oxygen	1.17	mg/L	CAPA-11-9309
R-20 S1	904.6	04/10/13	WG	Oxidation-Reduction Potential	-149.2	mV	CAPA-13-29560
R-20 S1	904.6	10/16/12	WG	Oxidation-Reduction Potential	-85.7	mV	CAPA-12-23795
R-20 S1	904.6	05/03/12	WG	Oxidation-Reduction Potential	66.9	mV	CAPA-12-13225
R-20 S1	904.6	07/27/11	WG	Oxidation-Reduction Potential	-31.6	mV	CAPA-11-22877
R-20 S1	904.6	04/20/11	WG	Oxidation-Reduction Potential	-101.7	mV	CAPA-11-9309
R-20 S1	904.6	04/10/13	WG	pH	8.43	SU[b]	CAPA-13-29560
R-20 S1	904.6	10/16/12	WG	pH	8.38	SU	CAPA-12-23795
R-20 S1	904.6	05/03/12	WG	pH	8.33	SU	CAPA-12-13225
R-20 S1	904.6	07/27/11	WG	pH	8.5	SU	CAPA-11-22877
R-20 S1	904.6	04/20/11	WG	pH	8.63	SU	CAPA-11-9309
R-20 S1	904.6	04/10/13	WG	Specific Conductance	139	µS/cm	CAPA-13-29560
R-20 S1	904.6	10/16/12	WG	Specific Conductance	143	µS/cm	CAPA-12-23795
R-20 S1	904.6	05/03/12	WG	Specific Conductance	146	µS/cm	CAPA-12-13225
R-20 S1	904.6	07/27/11	WG	Specific Conductance	142	µS/cm	CAPA-11-22877
R-20 S1	904.6	04/20/11	WG	Specific Conductance	145	µS/cm	CAPA-11-9309
R-20 S1	904.6	04/10/13	WG	Temperature	17.7	deg C	CAPA-13-29560
R-20 S1	904.6	10/16/12	WG	Temperature	17.97	deg C	CAPA-12-23795
R-20 S1	904.6	05/03/12	WG	Temperature	18.47	deg C	CAPA-12-13225
R-20 S1	904.6	07/27/11	WG	Temperature	18.5	deg C	CAPA-11-22877
R-20 S1	904.6	04/20/11	WG	Temperature	17.7	deg C	CAPA-11-9309
R-20 S1	904.6	04/10/13	WG	Turbidity	1.1	NTU[c]	CAPA-13-29560
R-20 S1	904.6	10/16/12	WG	Turbidity	1.97	NTU	CAPA-12-23795
R-20 S1	904.6	05/03/12	WG	Turbidity	5.74	NTU	CAPA-12-13225

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-20 S1	904.6	07/27/11	WG	Turbidity	0.75	NTU	CAPA-11-22877
R-20 S1	904.6	04/20/11	WG	Turbidity	1.78	NTU	CAPA-11-9309
R-20 S2	1147.1	04/08/13	WG	Dissolved Oxygen	2.56	mg/L	CAPA-13-29561
R-20 S2	1147.1	04/08/13	WG	Dissolved Oxygen	3.28	mg/L	CAPA-13-30294
R-20 S2	1147.1	10/17/12	WG	Dissolved Oxygen	2.34	mg/L	CAPA-12-23796
R-20 S2	1147.1	05/01/12	WG	Dissolved Oxygen	2.44	mg/L	CAPA-12-13226
R-20 S2	1147.1	05/01/12	WG	Dissolved Oxygen	2.44	mg/L	CAPA-12-13226
R-20 S2	1147.1	10/27/11	WG	Dissolved Oxygen	2.6	mg/L	CAPA-12-1138
R-20 S2	1147.1	07/25/11	WG	Dissolved Oxygen	2.52	mg/L	CAPA-11-22881
R-20 S2	1147.1	04/08/13	WG	Oxidation-Reduction Potential	-141	mV	CAPA-13-29561
R-20 S2	1147.1	04/08/13	WG	Oxidation-Reduction Potential	-118.7	mV	CAPA-13-30294
R-20 S2	1147.1	10/17/12	WG	Oxidation-Reduction Potential	-124.2	mV	CAPA-12-23796
R-20 S2	1147.1	05/01/12	WG	Oxidation-Reduction Potential	-12.2	mV	CAPA-12-13226
R-20 S2	1147.1	05/01/12	WG	Oxidation-Reduction Potential	-12.2	mV	CAPA-12-13226
R-20 S2	1147.1	10/27/11	WG	Oxidation-Reduction Potential	-33	mV	CAPA-12-1138
R-20 S2	1147.1	07/25/11	WG	Oxidation-Reduction Potential	-77.1	mV	CAPA-11-22881
R-20 S2	1147.1	04/08/13	WG	pH	7.93	SU	CAPA-13-29561
R-20 S2	1147.1	04/08/13	WG	pH	7.95	SU	CAPA-13-30294
R-20 S2	1147.1	10/17/12	WG	pH	7.88	SU	CAPA-12-23796
R-20 S2	1147.1	05/01/12	WG	pH	7.82	SU	CAPA-12-13226
R-20 S2	1147.1	05/01/12	WG	pH	7.82	SU	CAPA-12-13226
R-20 S2	1147.1	10/27/11	WG	pH	7.93	SU	CAPA-12-1138
R-20 S2	1147.1	07/25/11	WG	pH	7.96	SU	CAPA-11-22881
R-20 S2	1147.1	04/08/13	WG	Specific Conductance	140	µS/cm	CAPA-13-29561
R-20 S2	1147.1	04/08/13	WG	Specific Conductance	132	µS/cm	CAPA-13-30294
R-20 S2	1147.1	10/17/12	WG	Specific Conductance	136	µS/cm	CAPA-12-23796
R-20 S2	1147.1	05/01/12	WG	Specific Conductance	152	µS/cm	CAPA-12-13226
R-20 S2	1147.1	05/01/12	WG	Specific Conductance	152	µS/cm	CAPA-12-13226

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-20 S2	1147.1	10/27/11	WG	Specific Conductance	142	µS/cm	CAPA-12-1138
R-20 S2	1147.1	07/25/11	WG	Specific Conductance	144	µS/cm	CAPA-11-22881
R-20 S2	1147.1	04/08/13	WG	Temperature	19.47	deg C	CAPA-13-29561
R-20 S2	1147.1	04/08/13	WG	Temperature	20.06	deg C	CAPA-13-30294
R-20 S2	1147.1	10/17/12	WG	Temperature	20.02	deg C	CAPA-12-23796
R-20 S2	1147.1	05/01/12	WG	Temperature	20.46	deg C	CAPA-12-13226
R-20 S2	1147.1	05/01/12	WG	Temperature	20.46	deg C	CAPA-12-13226
R-20 S2	1147.1	10/27/11	WG	Temperature	18.32	deg C	CAPA-12-1138
R-20 S2	1147.1	07/25/11	WG	Temperature	20.45	deg C	CAPA-11-22881
R-20 S2	1147.1	04/08/13	WG	Turbidity	0.16	NTU	CAPA-13-29561
R-20 S2	1147.1	04/08/13	WG	Turbidity	0.22	NTU	CAPA-13-30294
R-20 S2	1147.1	10/17/12	WG	Turbidity	0.51	NTU	CAPA-12-23796
R-20 S2	1147.1	05/01/12	WG	Turbidity	0.71	NTU	CAPA-12-13226
R-20 S2	1147.1	05/01/12	WG	Turbidity	0.71	NTU	CAPA-12-13226
R-20 S2	1147.1	10/27/11	WG	Turbidity	0.53	NTU	CAPA-12-1138
R-20 S2	1147.1	07/25/11	WG	Turbidity	0.44	NTU	CAPA-11-22881
R-21	888.8	04/22/13	WG	Dissolved Oxygen	6.24	mg/L	CAMO-13-29625
R-21	888.8	10/15/12	WG	Dissolved Oxygen	7.98	mg/L	CAMO-12-23851
R-21	888.8	05/02/12	WG	Dissolved Oxygen	6.25	mg/L	CAPA-12-13259
R-21	888.8	11/03/11	WG	Dissolved Oxygen	6.25	mg/L	CAPA-12-1173
R-21	888.8	07/21/11	WG	Dissolved Oxygen	6.2	mg/L	CAPA-11-22884
R-21	888.8	04/22/13	WG	Oxidation-Reduction Potential	121.8	mV	CAMO-13-29625
R-21	888.8	10/15/12	WG	Oxidation-Reduction Potential	61.8	mV	CAMO-12-23851
R-21	888.8	05/02/12	WG	Oxidation-Reduction Potential	165.4	mV	CAPA-12-13259
R-21	888.8	11/03/11	WG	Oxidation-Reduction Potential	124.1	mV	CAPA-12-1173
R-21	888.8	07/21/11	WG	Oxidation-Reduction Potential	85	mV	CAPA-11-22884
R-21	888.8	04/22/13	WG	pH	7.93	SU	CAMO-13-29625
R-21	888.8	10/15/12	WG	pH	7.98	SU	CAMO-12-23851

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-21	888.8	05/02/12	WG	pH	8.09	SU	CAPA-12-13259
R-21	888.8	11/03/11	WG	pH	7.99	SU	CAPA-12-1173
R-21	888.8	07/21/11	WG	pH	8	SU	CAPA-11-22884
R-21	888.8	04/22/13	WG	Specific Conductance	124	µS/cm	CAMO-13-29625
R-21	888.8	10/15/12	WG	Specific Conductance	122	µS/cm	CAMO-12-23851
R-21	888.8	05/02/12	WG	Specific Conductance	129	µS/cm	CAPA-12-13259
R-21	888.8	11/03/11	WG	Specific Conductance	126	µS/cm	CAPA-12-1173
R-21	888.8	07/21/11	WG	Specific Conductance	128	µS/cm	CAPA-11-22884
R-21	888.8	04/22/13	WG	Temperature	21.99	deg C	CAMO-13-29625
R-21	888.8	10/15/12	WG	Temperature	21.33	deg C	CAMO-12-23851
R-21	888.8	05/02/12	WG	Temperature	21.79	deg C	CAPA-12-13259
R-21	888.8	11/03/11	WG	Temperature	20.19	deg C	CAPA-12-1173
R-21	888.8	07/21/11	WG	Temperature	21.49	deg C	CAPA-11-22884
R-21	888.8	04/22/13	WG	Turbidity	0	NTU	CAMO-13-29625
R-21	888.8	10/15/12	WG	Turbidity	0.2	NTU	CAMO-12-23851
R-21	888.8	05/02/12	WG	Turbidity	0.27	NTU	CAPA-12-13259
R-21	888.8	11/03/11	WG	Turbidity	0.51	NTU	CAPA-12-1173
R-21	888.8	07/21/11	WG	Turbidity	0.3	NTU	CAPA-11-22884
R-23	816	04/23/13	WG	Dissolved Oxygen	6.91	mg/L	CAPA-13-29562
R-23	816	10/12/12	WG	Dissolved Oxygen	6.88	mg/L	CAPA-12-23797
R-23	816	04/30/12	WG	Dissolved Oxygen	6.36	mg/L	CAPA-12-13227
R-23	816	10/26/11	WG	Dissolved Oxygen	6.93	mg/L	CAPA-12-1139
R-23	816	07/22/11	WG	Dissolved Oxygen	6.91	mg/L	CAPA-11-22870
R-23	816	04/23/13	WG	Oxidation-Reduction Potential	252.1	mV	CAPA-13-29562
R-23	816	10/12/12	WG	Oxidation-Reduction Potential	69	mV	CAPA-12-23797
R-23	816	04/30/12	WG	Oxidation-Reduction Potential	84	mV	CAPA-12-13227
R-23	816	10/26/11	WG	Oxidation-Reduction Potential	134.8	mV	CAPA-12-1139
R-23	816	07/22/11	WG	Oxidation-Reduction Potential	119.3	mV	CAPA-11-22870

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-23	816	04/23/13	WG	pH	8.02	SU	CAPA-13-29562
R-23	816	10/12/12	WG	pH	8.02	SU	CAPA-12-23797
R-23	816	04/30/12	WG	pH	7.88	SU	CAPA-12-13227
R-23	816	10/26/11	WG	pH	8.03	SU	CAPA-12-1139
R-23	816	07/22/11	WG	pH	8.05	SU	CAPA-11-22870
R-23	816	04/23/13	WG	Specific Conductance	168	µS/cm	CAPA-13-29562
R-23	816	10/12/12	WG	Specific Conductance	162	µS/cm	CAPA-12-23797
R-23	816	04/30/12	WG	Specific Conductance	192	µS/cm	CAPA-12-13227
R-23	816	10/26/11	WG	Specific Conductance	166	µS/cm	CAPA-12-1139
R-23	816	07/22/11	WG	Specific Conductance	174	µS/cm	CAPA-11-22870
R-23	816	04/23/13	WG	Temperature	20.86	deg C	CAPA-13-29562
R-23	816	10/12/12	WG	Temperature	20.75	deg C	CAPA-12-23797
R-23	816	04/30/12	WG	Temperature	20.06	deg C	CAPA-12-13227
R-23	816	10/26/11	WG	Temperature	21.21	deg C	CAPA-12-1139
R-23	816	07/22/11	WG	Temperature	21.82	deg C	CAPA-11-22870
R-23	816	04/23/13	WG	Turbidity	0.6	NTU	CAPA-13-29562
R-23	816	10/12/12	WG	Turbidity	0.6	NTU	CAPA-12-23797
R-23	816	04/30/12	WG	Turbidity	0.84	NTU	CAPA-12-13227
R-23	816	10/26/11	WG	Turbidity	0.57	NTU	CAPA-12-1139
R-23	816	07/22/11	WG	Turbidity	1.26	NTU	CAPA-11-22870
R-23i S1	400.3	04/22/13	WG	Dissolved Oxygen	6.61	mg/L	CAPA-13-29563
R-23i S1	400.3	10/09/12	WG	Dissolved Oxygen	6.93	mg/L	CAPA-12-23798
R-23i S1	400.3	05/10/12	WG	Dissolved Oxygen	6.49	mg/L	CAPA-12-13228
R-23i S1	400.3	11/04/11	WG	Dissolved Oxygen	6.74	mg/L	CAPA-12-1113
R-23i S1	400.3	07/25/11	WG	Dissolved Oxygen	6.62	mg/L	CAPA-11-22843
R-23i S1	400.3	04/22/13	WG	Oxidation-Reduction Potential	237.7	mV	CAPA-13-29563
R-23i S1	400.3	10/09/12	WG	Oxidation-Reduction Potential	248.3	mV	CAPA-12-23798
R-23i S1	400.3	05/10/12	WG	Oxidation-Reduction Potential	191.1	mV	CAPA-12-13228

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-23i S1	400.3	11/04/11	WG	Oxidation-Reduction Potential	219.2	mV	CAPA-12-1113
R-23i S1	400.3	07/25/11	WG	Oxidation-Reduction Potential	203.1	mV	CAPA-11-22843
R-23i S1	400.3	04/22/13	WG	pH	7.66	SU	CAPA-13-29563
R-23i S1	400.3	10/09/12	WG	pH	7.78	SU	CAPA-12-23798
R-23i S1	400.3	05/10/12	WG	pH	7.71	SU	CAPA-12-13228
R-23i S1	400.3	11/04/11	WG	pH	7.58	SU	CAPA-12-1113
R-23i S1	400.3	07/25/11	WG	pH	7.65	SU	CAPA-11-22843
R-23i S1	400.3	04/22/13	WG	Specific Conductance	279	µS/cm	CAPA-13-29563
R-23i S1	400.3	10/09/12	WG	Specific Conductance	282	µS/cm	CAPA-12-23798
R-23i S1	400.3	05/10/12	WG	Specific Conductance	285	µS/cm	CAPA-12-13228
R-23i S1	400.3	11/04/11	WG	Specific Conductance	275	µS/cm	CAPA-12-1113
R-23i S1	400.3	07/25/11	WG	Specific Conductance	295	µS/cm	CAPA-11-22843
R-23i S1	400.3	04/22/13	WG	Temperature	14.81	deg C	CAPA-13-29563
R-23i S1	400.3	10/09/12	WG	Temperature	15.77	deg C	CAPA-12-23798
R-23i S1	400.3	05/10/12	WG	Temperature	15.09	deg C	CAPA-12-13228
R-23i S1	400.3	11/04/11	WG	Temperature	13.8	deg C	CAPA-12-1113
R-23i S1	400.3	07/25/11	WG	Temperature	18	deg C	CAPA-11-22843
R-23i S1	400.3	04/22/13	WG	Turbidity	23.3	NTU	CAPA-13-29563
R-23i S1	400.3	10/09/12	WG	Turbidity	4.94	NTU	CAPA-12-23798
R-23i S1	400.3	05/10/12	WG	Turbidity	5.24	NTU	CAPA-12-13228
R-23i S1	400.3	11/04/11	WG	Turbidity	2.59	NTU	CAPA-12-1113
R-23i S1	400.3	07/25/11	WG	Turbidity	1.34	NTU	CAPA-11-22843
R-23i S2	470.2	04/22/13	WG	Dissolved Oxygen	5.97	mg/L	CAPA-13-29564
R-23i S2	470.2	10/17/12	WG	Dissolved Oxygen	5.77	mg/L	CAPA-12-23799
R-23i S2	470.2	05/01/12	WG	Dissolved Oxygen	5.61	mg/L	CAPA-12-13229
R-23i S2	470.2	05/01/12	WG	Dissolved Oxygen	5.61	mg/L	CAPA-12-13229
R-23i S2	470.2	10/20/11	WG	Dissolved Oxygen	6.16	mg/L	CAPA-12-1119
R-23i S2	470.2	07/26/11	WG	Dissolved Oxygen	5.72	mg/L	CAPA-11-22677

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-23i S2	470.2	04/22/13	WG	Oxidation-Reduction Potential	198.7	mV	CAPA-13-29564
R-23i S2	470.2	10/17/12	WG	Oxidation-Reduction Potential	166	mV	CAPA-12-23799
R-23i S2	470.2	05/01/12	WG	Oxidation-Reduction Potential	93.2	mV	CAPA-12-13229
R-23i S2	470.2	10/20/11	WG	Oxidation-Reduction Potential	117.3	mV	CAPA-12-1119
R-23i S2	470.2	07/26/11	WG	Oxidation-Reduction Potential	214.1	mV	CAPA-11-22677
R-23i S2	470.2	04/22/13	WG	pH	8.15	SU	CAPA-13-29564
R-23i S2	470.2	10/17/12	WG	pH	8.18	SU	CAPA-12-23799
R-23i S2	470.2	05/01/12	WG	pH	8	SU	CAPA-12-13229
R-23i S2	470.2	10/20/11	WG	pH	8.12	SU	CAPA-12-1119
R-23i S2	470.2	07/26/11	WG	pH	8.17	SU	CAPA-11-22677
R-23i S2	470.2	04/22/13	WG	Specific Conductance	202	µS/cm	CAPA-13-29564
R-23i S2	470.2	10/17/12	WG	Specific Conductance	184	µS/cm	CAPA-12-23799
R-23i S2	470.2	05/01/12	WG	Specific Conductance	184	µS/cm	CAPA-12-13229
R-23i S2	470.2	10/20/11	WG	Specific Conductance	182	µS/cm	CAPA-12-1119
R-23i S2	470.2	07/26/11	WG	Specific Conductance	196	µS/cm	CAPA-11-22677
R-23i S2	470.2	04/22/13	WG	Temperature	15.5	deg C	CAPA-13-29564
R-23i S2	470.2	10/17/12	WG	Temperature	15.59	deg C	CAPA-12-23799
R-23i S2	470.2	05/01/12	WG	Temperature	16	deg C	CAPA-12-13229
R-23i S2	470.2	10/20/11	WG	Temperature	15.72	deg C	CAPA-12-1119
R-23i S2	470.2	07/26/11	WG	Temperature	17.36	deg C	CAPA-11-22677
R-23i S2	470.2	04/22/13	WG	Turbidity	7.8	NTU	CAPA-13-29564
R-23i S2	470.2	10/17/12	WG	Turbidity	0.46	NTU	CAPA-12-23799
R-23i S2	470.2	05/01/12	WG	Turbidity	0.71	NTU	CAPA-12-13229
R-23i S2	470.2	10/20/11	WG	Turbidity	0.3	NTU	CAPA-12-1119
R-23i S2	470.2	07/26/11	WG	Turbidity	1.28	NTU	CAPA-11-22677
R-23i S3	524	04/23/13	WG	Dissolved Oxygen	7.46	mg/L	CAPA-13-29565
R-23i S3	524	10/10/12	WG	Dissolved Oxygen	6.79	mg/L	CAPA-12-23800
R-23i S3	524	04/30/12	WG	Dissolved Oxygen	3.6	mg/L	CAPA-12-13230

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-23i S3	524	10/26/11	WG	Dissolved Oxygen	7.25	mg/L	CAPA-12-1121
R-23i S3	524	07/29/11	WG	Dissolved Oxygen	6.6	mg/L	CAPA-11-14694
R-23i S3	524	07/29/11	WG	Dissolved Oxygen	6.89	mg/L	CAPA-11-14696
R-23i S3	524	07/29/11	WG	Dissolved Oxygen	6.99	mg/L	CAPA-11-14698
R-23i S3	524	07/29/11	WG	Dissolved Oxygen	6.99	mg/L	CAPA-11-22845
R-23i S3	524	04/23/13	WG	Oxidation-Reduction Potential	180.2	mV	CAPA-13-29565
R-23i S3	524	10/10/12	WG	Oxidation-Reduction Potential	47.1	mV	CAPA-12-23800
R-23i S3	524	04/30/12	WG	Oxidation-Reduction Potential	-46.7	mV	CAPA-12-13230
R-23i S3	524	10/26/11	WG	Oxidation-Reduction Potential	123.7	mV	CAPA-12-1121
R-23i S3	524	07/29/11	WG	Oxidation-Reduction Potential	141.8	mV	CAPA-11-14694
R-23i S3	524	07/29/11	WG	Oxidation-Reduction Potential	166.1	mV	CAPA-11-14696
R-23i S3	524	07/29/11	WG	Oxidation-Reduction Potential	180.2	mV	CAPA-11-14698
R-23i S3	524	07/29/11	WG	Oxidation-Reduction Potential	180.2	mV	CAPA-11-22845
R-23i S3	524	04/23/13	WG	pH	8.17	SU	CAPA-13-29565
R-23i S3	524	10/10/12	WG	pH	8.21	SU	CAPA-12-23800
R-23i S3	524	04/30/12	WG	pH	7.64	SU	CAPA-12-13230
R-23i S3	524	10/26/11	WG	pH	8.2	SU	CAPA-12-1121
R-23i S3	524	07/29/11	WG	pH	8.15	SU	CAPA-11-14694
R-23i S3	524	07/29/11	WG	pH	8.18	SU	CAPA-11-14696
R-23i S3	524	07/29/11	WG	pH	8.2	SU	CAPA-11-14698
R-23i S3	524	07/29/11	WG	pH	8.2	SU	CAPA-11-22845
R-23i S3	524	04/23/13	WG	Specific Conductance	192	µS/cm	CAPA-13-29565
R-23i S3	524	10/10/12	WG	Specific Conductance	191	µS/cm	CAPA-12-23800
R-23i S3	524	04/30/12	WG	Specific Conductance	235	µS/cm	CAPA-12-13230
R-23i S3	524	10/26/11	WG	Specific Conductance	200	µS/cm	CAPA-12-1121
R-23i S3	524	07/29/11	WG	Specific Conductance	199	µS/cm	CAPA-11-14694
R-23i S3	524	07/29/11	WG	Specific Conductance	183	µS/cm	CAPA-11-14696
R-23i S3	524	07/29/11	WG	Specific Conductance	198	µS/cm	CAPA-11-14698

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-23i S3	524	07/29/11	WG	Specific Conductance	198	µS/cm	CAPA-11-22845
R-23i S3	524	04/23/13	WG	Temperature	17.08	deg C	CAPA-13-29565
R-23i S3	524	10/10/12	WG	Temperature	17.25	deg C	CAPA-12-23800
R-23i S3	524	04/30/12	WG	Temperature	19.15	deg C	CAPA-12-13230
R-23i S3	524	10/26/11	WG	Temperature	17.1	deg C	CAPA-12-1121
R-23i S3	524	07/29/11	WG	Temperature	17.62	deg C	CAPA-11-14694
R-23i S3	524	07/29/11	WG	Temperature	17.86	deg C	CAPA-11-14696
R-23i S3	524	07/29/11	WG	Temperature	18.11	deg C	CAPA-11-14698
R-23i S3	524	07/29/11	WG	Temperature	18.11	deg C	CAPA-11-22845
R-23i S3	524	04/23/13	WG	Turbidity	0.5	NTU	CAPA-13-29565
R-23i S3	524	10/10/12	WG	Turbidity	1.64	NTU	CAPA-12-23800
R-23i S3	524	04/30/12	WG	Turbidity	0.71	NTU	CAPA-12-13230
R-23i S3	524	10/26/11	WG	Turbidity	0.51	NTU	CAPA-12-1121
R-23i S3	524	07/29/11	WG	Turbidity	1.4	NTU	CAPA-11-14694
R-23i S3	524	07/29/11	WG	Turbidity	0.77	NTU	CAPA-11-14696
R-23i S3	524	07/29/11	WG	Turbidity	1.37	NTU	CAPA-11-14698
R-23i S3	524	07/29/11	WG	Turbidity	1.37	NTU	CAPA-11-22845
R-32 S1	867.5	04/09/13	WG	Dissolved Oxygen	4.08	mg/L	CAPA-13-29566
R-32 S1	867.5	10/19/12	WG	Dissolved Oxygen	4.14	mg/L	CAPA-12-23801
R-32 S1	867.5	04/25/12	WG	Dissolved Oxygen	3.96	mg/L	CAPA-12-13231
R-32 S1	867.5	10/20/11	WG	Dissolved Oxygen	4.2	mg/L	CAPA-12-1143
R-32 S1	867.5	07/27/11	WG	Dissolved Oxygen	4.5	mg/L	CAPA-11-14782
R-32 S1	867.5	07/27/11	WG	Dissolved Oxygen	4.5	mg/L	CAPA-11-22695
R-32 S1	867.5	07/27/11	WG	Dissolved Oxygen	4	mg/L	CAPA-11-14778
R-32 S1	867.5	07/27/11	WG	Dissolved Oxygen	4.75	mg/L	CAPA-11-14780
R-32 S1	867.5	04/09/13	WG	Oxidation-Reduction Potential	23.5	mV	CAPA-13-29566
R-32 S1	867.5	10/19/12	WG	Oxidation-Reduction Potential	133.7	mV	CAPA-12-23801
R-32 S1	867.5	04/25/12	WG	Oxidation-Reduction Potential	59.1	mV	CAPA-12-13231

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-32 S1	867.5	10/20/11	WG	Oxidation-Reduction Potential	177.6	mV	CAPA-12-1143
R-32 S1	867.5	07/27/11	WG	Oxidation-Reduction Potential	188.9	mV	CAPA-11-14782
R-32 S1	867.5	07/27/11	WG	Oxidation-Reduction Potential	188.9	mV	CAPA-11-22695
R-32 S1	867.5	07/27/11	WG	Oxidation-Reduction Potential	175.3	mV	CAPA-11-14778
R-32 S1	867.5	07/27/11	WG	Oxidation-Reduction Potential	187.6	mV	CAPA-11-14780
R-32 S1	867.5	04/09/13	WG	pH	6.91	SU	CAPA-13-29566
R-32 S1	867.5	10/19/12	WG	pH	6.94	SU	CAPA-12-23801
R-32 S1	867.5	04/25/12	WG	pH	6.99	SU	CAPA-12-13231
R-32 S1	867.5	10/20/11	WG	pH	6.92	SU	CAPA-12-1143
R-32 S1	867.5	07/27/11	WG	pH	6.95	SU	CAPA-11-14782
R-32 S1	867.5	07/27/11	WG	pH	6.95	SU	CAPA-11-22695
R-32 S1	867.5	07/27/11	WG	pH	7.52	SU	CAPA-11-14778
R-32 S1	867.5	07/27/11	WG	pH	6.98	SU	CAPA-11-14780
R-32 S1	867.5	04/09/13	WG	Specific Conductance	164	µS/cm	CAPA-13-29566
R-32 S1	867.5	10/19/12	WG	Specific Conductance	169	µS/cm	CAPA-12-23801
R-32 S1	867.5	04/25/12	WG	Specific Conductance	169	µS/cm	CAPA-12-13231
R-32 S1	867.5	10/20/11	WG	Specific Conductance	168	µS/cm	CAPA-12-1143
R-32 S1	867.5	07/27/11	WG	Specific Conductance	170	µS/cm	CAPA-11-14782
R-32 S1	867.5	07/27/11	WG	Specific Conductance	170	µS/cm	CAPA-11-22695
R-32 S1	867.5	07/27/11	WG	Specific Conductance	169	µS/cm	CAPA-11-14778
R-32 S1	867.5	07/27/11	WG	Specific Conductance	171	µS/cm	CAPA-11-14780
R-32 S1	867.5	04/09/13	WG	Temperature	16.1	deg C	CAPA-13-29566
R-32 S1	867.5	10/19/12	WG	Temperature	18.77	deg C	CAPA-12-23801
R-32 S1	867.5	04/25/12	WG	Temperature	19.21	deg C	CAPA-12-13231
R-32 S1	867.5	10/20/11	WG	Temperature	19.02	deg C	CAPA-12-1143
R-32 S1	867.5	07/27/11	WG	Temperature	20.16	deg C	CAPA-11-14782
R-32 S1	867.5	07/27/11	WG	Temperature	20.16	deg C	CAPA-11-22695
R-32 S1	867.5	07/27/11	WG	Temperature	19.14	deg C	CAPA-11-14778

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-32 S1	867.5	07/27/11	WG	Temperature	19.73	deg C	CAPA-11-14780
R-32 S1	867.5	04/09/13	WG	Turbidity	0.3	NTU	CAPA-13-29566
R-32 S1	867.5	10/19/12	WG	Turbidity	0.9	NTU	CAPA-12-23801
R-32 S1	867.5	04/25/12	WG	Turbidity	0.81	NTU	CAPA-12-13231
R-32 S1	867.5	10/20/11	WG	Turbidity	0.67	NTU	CAPA-12-1143
R-32 S1	867.5	07/27/11	WG	Turbidity	0.64	NTU	CAPA-11-14782
R-32 S1	867.5	07/27/11	WG	Turbidity	0.64	NTU	CAPA-11-22695
R-32 S1	867.5	07/27/11	WG	Turbidity	1.26	NTU	CAPA-11-14778
R-32 S1	867.5	07/27/11	WG	Turbidity	0.68	NTU	CAPA-11-14780
R-37 S1	929.3	04/17/13	WG	Dissolved Oxygen	1.7	mg/L	CAMO-13-29626
R-37 S1	929.3	01/25/13	WG	Dissolved Oxygen	1.74	mg/L	CAMO-13-26655
R-37 S1	929.3	10/23/12	WG	Dissolved Oxygen	1.54	mg/L	CAMO-12-23859
R-37 S1	929.3	04/25/12	WG	Dissolved Oxygen	1.45	mg/L	CAPA-12-13260
R-37 S1	929.3	10/28/11	WG	Dissolved Oxygen	1.82	mg/L	CAPA-12-1127
R-37 S1	929.3	04/17/13	WG	Oxidation-Reduction Potential	174.7	mV	CAMO-13-29626
R-37 S1	929.3	01/25/13	WG	Oxidation-Reduction Potential	14.5	mV	CAMO-13-26655
R-37 S1	929.3	10/23/12	WG	Oxidation-Reduction Potential	162.8	mV	CAMO-12-23859
R-37 S1	929.3	04/25/12	WG	Oxidation-Reduction Potential	21.2	mV	CAPA-12-13260
R-37 S1	929.3	10/28/11	WG	Oxidation-Reduction Potential	130.1	mV	CAPA-12-1127
R-37 S1	929.3	04/17/13	WG	pH	8.23	SU	CAMO-13-29626
R-37 S1	929.3	01/25/13	WG	pH	8.3	SU	CAMO-13-26655
R-37 S1	929.3	10/23/12	WG	pH	8.23	SU	CAMO-12-23859
R-37 S1	929.3	04/25/12	WG	pH	8.17	SU	CAPA-12-13260
R-37 S1	929.3	10/28/11	WG	pH	8.19	SU	CAPA-12-1127
R-37 S1	929.3	04/17/13	WG	Specific Conductance	222	µS/cm	CAMO-13-29626
R-37 S1	929.3	01/25/13	WG	Specific Conductance	208	µS/cm	CAMO-13-26655
R-37 S1	929.3	10/23/12	WG	Specific Conductance	220	µS/cm	CAMO-12-23859
R-37 S1	929.3	04/25/12	WG	Specific Conductance	213	µS/cm	CAPA-12-13260

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-37 S1	929.3	10/28/11	WG	Specific Conductance	236	µS/cm	CAPA-12-1127
R-37 S1	929.3	04/17/13	WG	Temperature	17.16	deg C	CAMO-13-29626
R-37 S1	929.3	01/25/13	WG	Temperature	17.2	deg C	CAMO-13-26655
R-37 S1	929.3	10/23/12	WG	Temperature	17.44	deg C	CAMO-12-23859
R-37 S1	929.3	04/25/12	WG	Temperature	18.62	deg C	CAPA-12-13260
R-37 S1	929.3	10/28/11	WG	Temperature	17.42	deg C	CAPA-12-1127
R-37 S1	929.3	04/17/13	WG	Turbidity	1.7	NTU	CAMO-13-29626
R-37 S1	929.3	01/25/13	WG	Turbidity	0.37	NTU	CAMO-13-26655
R-37 S1	929.3	10/23/12	WG	Turbidity	0.44	NTU	CAMO-12-23859
R-37 S1	929.3	04/25/12	WG	Turbidity	0.43	NTU	CAPA-12-13260
R-37 S1	929.3	10/28/11	WG	Turbidity	0.57	NTU	CAPA-12-1127
R-37 S2	1026	04/11/13	WG	Dissolved Oxygen	7.39	mg/L	CAMO-13-29627
R-37 S2	1026	01/24/13	WG	Dissolved Oxygen	7.39	mg/L	CAMO-13-26656
R-37 S2	1026	10/22/12	WG	Dissolved Oxygen	7.59	mg/L	CAMO-12-23860
R-37 S2	1026	04/27/12	WG	Dissolved Oxygen	7.36	mg/L	CAPA-12-13261
R-37 S2	1026	10/31/11	WG	Dissolved Oxygen	6.89	mg/L	CAPA-12-1178
R-37 S2	1026	04/11/13	WG	Oxidation-Reduction Potential	97.9	mV	CAMO-13-29627
R-37 S2	1026	01/24/13	WG	Oxidation-Reduction Potential	28.8	mV	CAMO-13-26656
R-37 S2	1026	10/22/12	WG	Oxidation-Reduction Potential	184.3	mV	CAMO-12-23860
R-37 S2	1026	04/27/12	WG	Oxidation-Reduction Potential	143.9	mV	CAPA-12-13261
R-37 S2	1026	10/31/11	WG	Oxidation-Reduction Potential	124.2	mV	CAPA-12-1178
R-37 S2	1026	04/11/13	WG	pH	7.97	SU	CAMO-13-29627
R-37 S2	1026	01/24/13	WG	pH	8	SU	CAMO-13-26656
R-37 S2	1026	10/22/12	WG	pH	7.91	SU	CAMO-12-23860
R-37 S2	1026	04/27/12	WG	pH	8.1	SU	CAPA-12-13261
R-37 S2	1026	10/31/11	WG	pH	7.89	SU	CAPA-12-1178
R-37 S2	1026	04/11/13	WG	Specific Conductance	129	µS/cm	CAMO-13-29627
R-37 S2	1026	01/24/13	WG	Specific Conductance	128	µS/cm	CAMO-13-26656

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-37 S2	1026	10/22/12	WG	Specific Conductance	131	µS/cm	CAMO-12-23860
R-37 S2	1026	04/27/12	WG	Specific Conductance	134	µS/cm	CAPA-12-13261
R-37 S2	1026	10/31/11	WG	Specific Conductance	135	µS/cm	CAPA-12-1178
R-37 S2	1026	04/11/13	WG	Temperature	17.1	deg C	CAMO-13-29627
R-37 S2	1026	01/24/13	WG	Temperature	20.53	deg C	CAMO-13-26656
R-37 S2	1026	10/22/12	WG	Temperature	20.81	deg C	CAMO-12-23860
R-37 S2	1026	04/27/12	WG	Temperature	20.54	deg C	CAPA-12-13261
R-37 S2	1026	10/31/11	WG	Temperature	19.69	deg C	CAPA-12-1178
R-37 S2	1026	04/11/13	WG	Turbidity	1.2	NTU	CAMO-13-29627
R-37 S2	1026	01/24/13	WG	Turbidity	0.46	NTU	CAMO-13-26656
R-37 S2	1026	10/22/12	WG	Turbidity	0.6	NTU	CAMO-12-23860
R-37 S2	1026	04/27/12	WG	Turbidity	0.78	NTU	CAPA-12-13261
R-37 S2	1026	10/31/11	WG	Turbidity	0.75	NTU	CAPA-12-1178
R-38	821.2	04/11/13	WG	Dissolved Oxygen	6.63	mg/L	CAMO-13-29628
R-38	821.2	10/09/12	WG	Dissolved Oxygen	6.72	mg/L	CAMO-12-23861
R-38	821.2	04/24/12	WG	Dissolved Oxygen	6.87	mg/L	CAPA-12-13262
R-38	821.2	10/25/11	WG	Dissolved Oxygen	6.88	mg/L	CAPA-12-1181
R-38	821.2	07/26/11	WG	Dissolved Oxygen	7.03	mg/L	CAPA-11-22889
R-38	821.2	04/11/13	WG	Oxidation-Reduction Potential	-115.2	mV	CAMO-13-29628
R-38	821.2	10/09/12	WG	Oxidation-Reduction Potential	78.7	mV	CAMO-12-23861
R-38	821.2	04/24/12	WG	Oxidation-Reduction Potential	111.6	mV	CAPA-12-13262
R-38	821.2	10/25/11	WG	Oxidation-Reduction Potential	88	mV	CAPA-12-1181
R-38	821.2	07/26/11	WG	Oxidation-Reduction Potential	113.8	mV	CAPA-11-22889
R-38	821.2	04/11/13	WG	pH	7.19	SU	CAMO-13-29628
R-38	821.2	10/09/12	WG	pH	7.26	SU	CAMO-12-23861
R-38	821.2	04/24/12	WG	pH	7.32	SU	CAPA-12-13262
R-38	821.2	10/25/11	WG	pH	7.41	SU	CAPA-12-1181
R-38	821.2	07/26/11	WG	pH	7.42	SU	CAPA-11-22889

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-38	821.2	04/11/13	WG	Specific Conductance	136	µS/cm	CAMO-13-29628
R-38	821.2	10/09/12	WG	Specific Conductance	138	µS/cm	CAMO-12-23861
R-38	821.2	04/24/12	WG	Specific Conductance	141	µS/cm	CAPA-12-13262
R-38	821.2	10/25/11	WG	Specific Conductance	140	µS/cm	CAPA-12-1181
R-38	821.2	07/26/11	WG	Specific Conductance	135	µS/cm	CAPA-11-22889
R-38	821.2	04/11/13	WG	Temperature	17.93	deg C	CAMO-13-29628
R-38	821.2	10/09/12	WG	Temperature	18.41	deg C	CAMO-12-23861
R-38	821.2	04/24/12	WG	Temperature	18.91	deg C	CAPA-12-13262
R-38	821.2	10/25/11	WG	Temperature	18.57	deg C	CAPA-12-1181
R-38	821.2	07/26/11	WG	Temperature	19.13	deg C	CAPA-11-22889
R-38	821.2	04/11/13	WG	Turbidity	1.5	NTU	CAMO-13-29628
R-38	821.2	10/09/12	WG	Turbidity	0.61	NTU	CAMO-12-23861
R-38	821.2	04/24/12	WG	Turbidity	0.68	NTU	CAPA-12-13262
R-38	821.2	10/25/11	WG	Turbidity	0.97	NTU	CAPA-12-1181
R-38	821.2	07/26/11	WG	Turbidity	0.92	NTU	CAPA-11-22889
R-39	859	04/09/13	WG	Dissolved Oxygen	6.61	mg/L	CAPA-13-29567
R-39	859	01/28/13	WG	Dissolved Oxygen	6.79	mg/L	CAPA-13-26661
R-39	859	10/11/12	WG	Dissolved Oxygen	6.53	mg/L	CAPA-12-23802
R-39	859	04/25/12	WG	Dissolved Oxygen	6.54	mg/L	CAPA-12-13232
R-39	859	10/27/11	WG	Dissolved Oxygen	6.66	mg/L	CAPA-12-1147
R-39	859	04/09/13	WG	Oxidation-Reduction Potential	248.5	mV	CAPA-13-29567
R-39	859	01/28/13	WG	Oxidation-Reduction Potential	218.3	mV	CAPA-13-26661
R-39	859	10/11/12	WG	Oxidation-Reduction Potential	10.9	mV	CAPA-12-23802
R-39	859	04/25/12	WG	Oxidation-Reduction Potential	62.1	mV	CAPA-12-13232
R-39	859	10/27/11	WG	Oxidation-Reduction Potential	193.7	mV	CAPA-12-1147
R-39	859	04/09/13	WG	pH	8.1	SU	CAPA-13-29567
R-39	859	01/28/13	WG	pH	8.07	SU	CAPA-13-26661
R-39	859	10/11/12	WG	pH	8.18	SU	CAPA-12-23802

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-39	859	04/25/12	WG	pH	8.11	SU	CAPA-12-13232
R-39	859	10/27/11	WG	pH	8.07	SU	CAPA-12-1147
R-39	859	04/09/13	WG	Specific Conductance	138	µS/cm	CAPA-13-29567
R-39	859	01/28/13	WG	Specific Conductance	137	µS/cm	CAPA-13-26661
R-39	859	10/11/12	WG	Specific Conductance	134	µS/cm	CAPA-12-23802
R-39	859	04/25/12	WG	Specific Conductance	140	µS/cm	CAPA-12-13232
R-39	859	10/27/11	WG	Specific Conductance	141	µS/cm	CAPA-12-1147
R-39	859	04/09/13	WG	Temperature	18.19	deg C	CAPA-13-29567
R-39	859	01/28/13	WG	Temperature	21.16	deg C	CAPA-13-26661
R-39	859	10/11/12	WG	Temperature	22.44	deg C	CAPA-12-23802
R-39	859	04/25/12	WG	Temperature	22.69	deg C	CAPA-12-13232
R-39	859	10/27/11	WG	Temperature	22.14	deg C	CAPA-12-1147
R-39	859	04/09/13	WG	Turbidity	0.7	NTU	CAPA-13-29567
R-39	859	01/28/13	WG	Turbidity	1.62	NTU	CAPA-13-26661
R-39	859	10/11/12	WG	Turbidity	1.04	NTU	CAPA-12-23802
R-39	859	04/25/12	WG	Turbidity	1.38	NTU	CAPA-12-13232
R-39	859	10/27/11	WG	Turbidity	2.07	NTU	CAPA-12-1147
R-40 S1	751.59	04/17/13	WG	Dissolved Oxygen	3.91	mg/L	CAPA-13-29568
R-40 S1	751.59	10/12/12	WG	Dissolved Oxygen	2.11	mg/L	CAPA-12-23803
R-40 S1	751.59	10/12/12	WG	Dissolved Oxygen	1.21	mg/L	CAPA-13-24285
R-40 S1	751.59	04/26/12	WG	Dissolved Oxygen	0.99	mg/L	CAPA-12-13233
R-40 S1	751.59	11/01/11	WG	Dissolved Oxygen	5.35	mg/L	CAPA-12-1310
R-40 S1	751.59	10/31/11	WG	Dissolved Oxygen	8.39	mg/L	CAPA-12-1307
R-40 S1	751.59	10/31/11	WG	Dissolved Oxygen	4.85	mg/L	CAPA-12-1308
R-40 S1	751.59	10/31/11	WG	Dissolved Oxygen	2.92	mg/L	CAPA-12-1309
R-40 S1	751.59	04/17/13	WG	Oxidation-Reduction Potential	169.8	mV	CAPA-13-29568
R-40 S1	751.59	10/12/12	WG	Oxidation-Reduction Potential	157.2	mV	CAPA-12-23803
R-40 S1	751.59	10/12/12	WG	Oxidation-Reduction Potential	173.8	mV	CAPA-13-24285

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-40 S1	751.59	04/26/12	WG	Oxidation-Reduction Potential	16.6	mV	CAPA-12-13233
R-40 S1	751.59	11/01/11	WG	Oxidation-Reduction Potential	213.8	mV	CAPA-12-1310
R-40 S1	751.59	10/31/11	WG	Oxidation-Reduction Potential	169.1	mV	CAPA-12-1307
R-40 S1	751.59	10/31/11	WG	Oxidation-Reduction Potential	138.3	mV	CAPA-12-1308
R-40 S1	751.59	10/31/11	WG	Oxidation-Reduction Potential	54	mV	CAPA-12-1309
R-40 S1	751.59	04/17/13	WG	pH	9.26	SU	CAPA-13-29568
R-40 S1	751.59	10/12/12	WG	pH	9.22	SU	CAPA-12-23803
R-40 S1	751.59	10/12/12	WG	pH	9.58	SU	CAPA-13-24285
R-40 S1	751.59	04/26/12	WG	pH	9.34	SU	CAPA-12-13233
R-40 S1	751.59	11/01/11	WG	pH	9.04	SU	CAPA-12-1310
R-40 S1	751.59	10/31/11	WG	pH	8.27	SU	CAPA-12-1307
R-40 S1	751.59	10/31/11	WG	pH	9.23	SU	CAPA-12-1308
R-40 S1	751.59	10/31/11	WG	pH	9	SU	CAPA-12-1309
R-40 S1	751.59	04/17/13	WG	Specific Conductance	155	µS/cm	CAPA-13-29568
R-40 S1	751.59	10/12/12	WG	Specific Conductance	162	µS/cm	CAPA-12-23803
R-40 S1	751.59	10/12/12	WG	Specific Conductance	150	µS/cm	CAPA-13-24285
R-40 S1	751.59	04/26/12	WG	Specific Conductance	166	µS/cm	CAPA-12-13233
R-40 S1	751.59	11/01/11	WG	Specific Conductance	178	µS/cm	CAPA-12-1310
R-40 S1	751.59	10/31/11	WG	Specific Conductance	165	µS/cm	CAPA-12-1307
R-40 S1	751.59	10/31/11	WG	Specific Conductance	150	µS/cm	CAPA-12-1308
R-40 S1	751.59	10/31/11	WG	Specific Conductance	169	µS/cm	CAPA-12-1309
R-40 S1	751.59	04/17/13	WG	Temperature	16.19	deg C	CAPA-13-29568
R-40 S1	751.59	10/12/12	WG	Temperature	16	deg C	CAPA-12-23803
R-40 S1	751.59	10/12/12	WG	Temperature	15.8	deg C	CAPA-13-24285
R-40 S1	751.59	04/26/12	WG	Temperature	16.62	deg C	CAPA-12-13233
R-40 S1	751.59	11/01/11	WG	Temperature	15.6	deg C	CAPA-12-1310
R-40 S1	751.59	10/31/11	WG	Temperature	14.6	deg C	CAPA-12-1307
R-40 S1	751.59	10/31/11	WG	Temperature	16.08	deg C	CAPA-12-1308

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-40 S1	751.59	10/31/11	WG	Temperature	15.64	deg C	CAPA-12-1309
R-40 S1	751.59	04/17/13	WG	Turbidity	24.9	NTU	CAPA-13-29568
R-40 S1	751.59	10/12/12	WG	Turbidity	1.02	NTU	CAPA-12-23803
R-40 S1	751.59	10/12/12	WG	Turbidity	0.47	NTU	CAPA-13-24285
R-40 S1	751.59	04/26/12	WG	Turbidity	0.42	NTU	CAPA-12-13233
R-40 S1	751.59	11/01/11	WG	Turbidity	1.48	NTU	CAPA-12-1310
R-40 S1	751.59	10/31/11	WG	Turbidity	1.02	NTU	CAPA-12-1307
R-40 S1	751.59	10/31/11	WG	Turbidity	0.84	NTU	CAPA-12-1308
R-40 S1	751.59	10/31/11	WG	Turbidity	1.1	NTU	CAPA-12-1309
R-40 S2	849.27	04/16/13	WG	Dissolved Oxygen	6.58	mg/L	CAPA-13-29569
R-40 S2	849.27	10/12/12	WG	Dissolved Oxygen	6.85	mg/L	CAPA-12-23804
R-40 S2	849.27	05/01/12	WG	Dissolved Oxygen	7.39	mg/L	CAPA-12-13234
R-40 S2	849.27	10/20/11	WG	Dissolved Oxygen	6.67	mg/L	CAPA-12-1150
R-40 S2	849.27	07/08/11	WG	Dissolved Oxygen	7.32	mg/L	CAPA-11-22899
R-40 S2	849.27	04/16/13	WG	Oxidation-Reduction Potential	164	mV	CAPA-13-29569
R-40 S2	849.27	10/12/12	WG	Oxidation-Reduction Potential	183.7	mV	CAPA-12-23804
R-40 S2	849.27	05/01/12	WG	Oxidation-Reduction Potential	170.4	mV	CAPA-12-13234
R-40 S2	849.27	10/20/11	WG	Oxidation-Reduction Potential	81.7	mV	CAPA-12-1150
R-40 S2	849.27	07/08/11	WG	Oxidation-Reduction Potential	102.3	mV	CAPA-11-22899
R-40 S2	849.27	04/16/13	WG	pH	8.01	SU	CAPA-13-29569
R-40 S2	849.27	10/12/12	WG	pH	7.85	SU	CAPA-12-23804
R-40 S2	849.27	05/01/12	WG	pH	7.92	SU	CAPA-12-13234
R-40 S2	849.27	10/20/11	WG	pH	7.99	SU	CAPA-12-1150
R-40 S2	849.27	07/08/11	WG	pH	8.19	SU	CAPA-11-22899
R-40 S2	849.27	04/16/13	WG	Specific Conductance	129	µS/cm	CAPA-13-29569
R-40 S2	849.27	10/12/12	WG	Specific Conductance	127	µS/cm	CAPA-12-23804
R-40 S2	849.27	05/01/12	WG	Specific Conductance	131	µS/cm	CAPA-12-13234
R-40 S2	849.27	10/20/11	WG	Specific Conductance	125	µS/cm	CAPA-12-1150

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-40 S2	849.27	07/08/11	WG	Specific Conductance	119	µS/cm	CAPA-11-22899
R-40 S2	849.27	04/16/13	WG	Temperature	20.26	deg C	CAPA-13-29569
R-40 S2	849.27	10/12/12	WG	Temperature	19.46	deg C	CAPA-12-23804
R-40 S2	849.27	05/01/12	WG	Temperature	20.6	deg C	CAPA-12-13234
R-40 S2	849.27	10/20/11	WG	Temperature	20.47	deg C	CAPA-12-1150
R-40 S2	849.27	07/08/11	WG	Temperature	21.35	deg C	CAPA-11-22899
R-40 S2	849.27	04/16/13	WG	Turbidity	0.2	NTU	CAPA-13-29569
R-40 S2	849.27	10/12/12	WG	Turbidity	0.86	NTU	CAPA-12-23804
R-40 S2	849.27	05/01/12	WG	Turbidity	0.63	NTU	CAPA-12-13234
R-40 S2	849.27	10/20/11	WG	Turbidity	3.15	NTU	CAPA-12-1150
R-40 S2	849.27	07/08/11	WG	Turbidity	0.73	NTU	CAPA-11-22899
R-40 Si	649.67	04/24/13	WG	Dissolved Oxygen	0.58	mg/L	CAPA-13-30295
R-40 Si	649.67	04/24/13	WG	Dissolved Oxygen	0.48	mg/L	CAPA-13-30300
R-40 Si	649.67	10/22/12	WG	Dissolved Oxygen	6.44	mg/L	CAPA-12-23805
R-40 Si	649.67	05/07/12	WG	Dissolved Oxygen	7.14	mg/L	CAPA-12-13235
R-40 Si	649.67	11/01/11	WG	Dissolved Oxygen	0.18	mg/L	CAPA-12-1124
R-40 Si	649.67	11/01/11	WG	Dissolved Oxygen	0.44	mg/L	CAPA-12-1294
R-40 Si	649.67	11/01/11	WG	Dissolved Oxygen	1.1	mg/L	CAPA-12-1296
R-40 Si	649.67	11/01/11	WG	Dissolved Oxygen	0.32	mg/L	CAPA-12-1298
R-40 Si	649.67	11/01/11	WG	Dissolved Oxygen	0.25	mg/L	CAPA-12-1300
R-40 Si	649.67	11/01/11	WG	Dissolved Oxygen	0.46	mg/L	CAPA-12-1302
R-40 Si	649.67	11/01/11	WG	Dissolved Oxygen	0.18	mg/L	CAPA-12-1304
R-40 Si	649.67	07/12/11	WG	Dissolved Oxygen	0.26	mg/L	CAPA-11-23041
R-40 Si	649.67	07/12/11	WG	Dissolved Oxygen	0.22	mg/L	CAPA-11-23043
R-40 Si	649.67	07/12/11	WG	Dissolved Oxygen	0.21	mg/L	CAPA-11-23045
R-40 Si	649.67	07/12/11	WG	Dissolved Oxygen	0.18	mg/L	CAPA-11-23047
R-40 Si	649.67	04/24/13	WG	Oxidation-Reduction Potential	-170.9	mV	CAPA-13-30295
R-40 Si	649.67	04/24/13	WG	Oxidation-Reduction Potential	-161.6	mV	CAPA-13-30300

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-40 Si	649.67	10/22/12	WG	Oxidation-Reduction Potential	124.9	mV	CAPA-12-23805
R-40 Si	649.67	05/07/12	WG	Oxidation-Reduction Potential	-88.9	mV	CAPA-12-13235
R-40 Si	649.67	11/01/11	WG	Oxidation-Reduction Potential	-127	mV	CAPA-12-1124
R-40 Si	649.67	11/01/11	WG	Oxidation-Reduction Potential	-147.2	mV	CAPA-12-1294
R-40 Si	649.67	11/01/11	WG	Oxidation-Reduction Potential	-123	mV	CAPA-12-1296
R-40 Si	649.67	11/01/11	WG	Oxidation-Reduction Potential	-148	mV	CAPA-12-1298
R-40 Si	649.67	11/01/11	WG	Oxidation-Reduction Potential	-152.7	mV	CAPA-12-1300
R-40 Si	649.67	11/01/11	WG	Oxidation-Reduction Potential	-116.7	mV	CAPA-12-1302
R-40 Si	649.67	11/01/11	WG	Oxidation-Reduction Potential	-127	mV	CAPA-12-1304
R-40 Si	649.67	07/12/11	WG	Oxidation-Reduction Potential	-127.9	mV	CAPA-11-23041
R-40 Si	649.67	07/12/11	WG	Oxidation-Reduction Potential	-130.1	mV	CAPA-11-23043
R-40 Si	649.67	07/12/11	WG	Oxidation-Reduction Potential	-129.8	mV	CAPA-11-23045
R-40 Si	649.67	07/12/11	WG	Oxidation-Reduction Potential	-117	mV	CAPA-11-23047
R-40 Si	649.67	04/24/13	WG	pH	7.5	SU	CAPA-13-30295
R-40 Si	649.67	04/24/13	WG	pH	7.51	SU	CAPA-13-30300
R-40 Si	649.67	10/22/12	WG	pH	7.5	SU	CAPA-12-23805
R-40 Si	649.67	05/07/12	WG	pH	7.52	SU	CAPA-12-13235
R-40 Si	649.67	11/01/11	WG	pH	7.5	SU	CAPA-12-1124
R-40 Si	649.67	11/01/11	WG	pH	7.49	SU	CAPA-12-1294
R-40 Si	649.67	11/01/11	WG	pH	7.46	SU	CAPA-12-1296
R-40 Si	649.67	11/01/11	WG	pH	7.47	SU	CAPA-12-1298
R-40 Si	649.67	11/01/11	WG	pH	7.48	SU	CAPA-12-1300
R-40 Si	649.67	11/01/11	WG	pH	7.48	SU	CAPA-12-1302
R-40 Si	649.67	11/01/11	WG	pH	7.5	SU	CAPA-12-1304
R-40 Si	649.67	07/12/11	WG	pH	7.45	SU	CAPA-11-23041
R-40 Si	649.67	07/12/11	WG	pH	7.46	SU	CAPA-11-23043
R-40 Si	649.67	07/12/11	WG	pH	7.47	SU	CAPA-11-23045
R-40 Si	649.67	07/12/11	WG	pH	7.48	SU	CAPA-11-23047

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-40 Si	649.67	04/24/13	WG	Specific Conductance	245	µS/cm	CAPA-13-30295
R-40 Si	649.67	04/24/13	WG	Specific Conductance	234	µS/cm	CAPA-13-30300
R-40 Si	649.67	10/22/12	WG	Specific Conductance	247	µS/cm	CAPA-12-23805
R-40 Si	649.67	05/07/12	WG	Specific Conductance	247	µS/cm	CAPA-12-13235
R-40 Si	649.67	11/01/11	WG	Specific Conductance	234	µS/cm	CAPA-12-1124
R-40 Si	649.67	11/01/11	WG	Specific Conductance	255	µS/cm	CAPA-12-1294
R-40 Si	649.67	11/01/11	WG	Specific Conductance	250	µS/cm	CAPA-12-1296
R-40 Si	649.67	11/01/11	WG	Specific Conductance	247	µS/cm	CAPA-12-1298
R-40 Si	649.67	11/01/11	WG	Specific Conductance	241	µS/cm	CAPA-12-1300
R-40 Si	649.67	11/01/11	WG	Specific Conductance	235	µS/cm	CAPA-12-1302
R-40 Si	649.67	11/01/11	WG	Specific Conductance	234	µS/cm	CAPA-12-1304
R-40 Si	649.67	07/12/11	WG	Specific Conductance	255	µS/cm	CAPA-11-23041
R-40 Si	649.67	07/12/11	WG	Specific Conductance	251	µS/cm	CAPA-11-23043
R-40 Si	649.67	07/12/11	WG	Specific Conductance	249	µS/cm	CAPA-11-23045
R-40 Si	649.67	07/12/11	WG	Specific Conductance	242	µS/cm	CAPA-11-23047
R-40 Si	649.67	04/24/13	WG	Temperature	15.45	deg C	CAPA-13-30295
R-40 Si	649.67	04/24/13	WG	Temperature	15.96	deg C	CAPA-13-30300
R-40 Si	649.67	10/22/12	WG	Temperature	16.04	deg C	CAPA-12-23805
R-40 Si	649.67	05/07/12	WG	Temperature	16.29	deg C	CAPA-12-13235
R-40 Si	649.67	11/01/11	WG	Temperature	16.82	deg C	CAPA-12-1124
R-40 Si	649.67	11/01/11	WG	Temperature	16.69	deg C	CAPA-12-1294
R-40 Si	649.67	11/01/11	WG	Temperature	15.88	deg C	CAPA-12-1296
R-40 Si	649.67	11/01/11	WG	Temperature	16.81	deg C	CAPA-12-1298
R-40 Si	649.67	11/01/11	WG	Temperature	16.82	deg C	CAPA-12-1300
R-40 Si	649.67	11/01/11	WG	Temperature	16.5	deg C	CAPA-12-1302
R-40 Si	649.67	11/01/11	WG	Temperature	16.82	deg C	CAPA-12-1304
R-40 Si	649.67	07/12/11	WG	Temperature	16.98	deg C	CAPA-11-23041
R-40 Si	649.67	07/12/11	WG	Temperature	16.9	deg C	CAPA-11-23043

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-40 Si	649.67	07/12/11	WG	Temperature	16.94	deg C	CAPA-11-23045
R-40 Si	649.67	07/12/11	WG	Temperature	16.94	deg C	CAPA-11-23047
R-40 Si	649.67	04/24/13	WG	Turbidity	0.3	NTU	CAPA-13-30295
R-40 Si	649.67	04/24/13	WG	Turbidity	0.3	NTU	CAPA-13-30300
R-40 Si	649.67	10/22/12	WG	Turbidity	1.11	NTU	CAPA-12-23805
R-40 Si	649.67	05/07/12	WG	Turbidity	0.48	NTU	CAPA-12-13235
R-40 Si	649.67	11/01/11	WG	Turbidity	0.46	NTU	CAPA-12-1124
R-40 Si	649.67	11/01/11	WG	Turbidity	0.44	NTU	CAPA-12-1294
R-40 Si	649.67	11/01/11	WG	Turbidity	0.52	NTU	CAPA-12-1296
R-40 Si	649.67	11/01/11	WG	Turbidity	0.38	NTU	CAPA-12-1298
R-40 Si	649.67	11/01/11	WG	Turbidity	0.94	NTU	CAPA-12-1300
R-40 Si	649.67	11/01/11	WG	Turbidity	0.58	NTU	CAPA-12-1302
R-40 Si	649.67	11/01/11	WG	Turbidity	0.46	NTU	CAPA-12-1304
R-40 Si	649.67	07/12/11	WG	Turbidity	0.29	NTU	CAPA-11-23041
R-40 Si	649.67	07/12/11	WG	Turbidity	0.64	NTU	CAPA-11-23043
R-40 Si	649.67	07/12/11	WG	Turbidity	0.23	NTU	CAPA-11-23045
R-40 Si	649.67	07/12/11	WG	Turbidity	0.96	NTU	CAPA-11-23047
R-41 S2	965.3	04/09/13	WG	Dissolved Oxygen	6.14	mg/L	CAPA-13-29571
R-41 S2	965.3	01/28/13	WG	Dissolved Oxygen	5.77	mg/L	CAPA-13-26662
R-41 S2	965.3	10/11/12	WG	Dissolved Oxygen	6.21	mg/L	CAPA-12-23806
R-41 S2	965.3	04/24/12	WG	Dissolved Oxygen	6.03	mg/L	CAPA-12-13236
R-41 S2	965.3	10/25/11	WG	Dissolved Oxygen	5.61	mg/L	CAPA-12-1182
R-41 S2	965.3	04/09/13	WG	Oxidation-Reduction Potential	185.4	mV	CAPA-13-29571
R-41 S2	965.3	01/28/13	WG	Oxidation-Reduction Potential	-23.2	mV	CAPA-13-26662
R-41 S2	965.3	10/11/12	WG	Oxidation-Reduction Potential	-25.7	mV	CAPA-12-23806
R-41 S2	965.3	04/24/12	WG	Oxidation-Reduction Potential	57.9	mV	CAPA-12-13236
R-41 S2	965.3	10/25/11	WG	Oxidation-Reduction Potential	49.3	mV	CAPA-12-1182
R-41 S2	965.3	04/09/13	WG	pH	8.09	SU	CAPA-13-29571

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-41 S2	965.3	01/28/13	WG	pH	8.15	SU	CAPA-13-26662
R-41 S2	965.3	10/11/12	WG	pH	8.08	SU	CAPA-12-23806
R-41 S2	965.3	04/24/12	WG	pH	8.13	SU	CAPA-12-13236
R-41 S2	965.3	10/25/11	WG	pH	8.1	SU	CAPA-12-1182
R-41 S2	965.3	04/09/13	WG	Specific Conductance	161	µS/cm	CAPA-13-29571
R-41 S2	965.3	01/28/13	WG	Specific Conductance	158	µS/cm	CAPA-13-26662
R-41 S2	965.3	10/11/12	WG	Specific Conductance	147	µS/cm	CAPA-12-23806
R-41 S2	965.3	04/24/12	WG	Specific Conductance	164	µS/cm	CAPA-12-13236
R-41 S2	965.3	10/25/11	WG	Specific Conductance	165	µS/cm	CAPA-12-1182
R-41 S2	965.3	04/09/13	WG	Temperature	18.74	deg C	CAPA-13-29571
R-41 S2	965.3	01/28/13	WG	Temperature	20.85	deg C	CAPA-13-26662
R-41 S2	965.3	10/11/12	WG	Temperature	21.74	deg C	CAPA-12-23806
R-41 S2	965.3	04/24/12	WG	Temperature	22.14	deg C	CAPA-12-13236
R-41 S2	965.3	10/25/11	WG	Temperature	21.41	deg C	CAPA-12-1182
R-41 S2	965.3	04/09/13	WG	Turbidity	0.3	NTU	CAPA-13-29571
R-41 S2	965.3	01/28/13	WG	Turbidity	0.48	NTU	CAPA-13-26662
R-41 S2	965.3	10/11/12	WG	Turbidity	0.42	NTU	CAPA-12-23806
R-41 S2	965.3	04/24/12	WG	Turbidity	0.97	NTU	CAPA-12-13236
R-41 S2	965.3	10/25/11	WG	Turbidity	0.56	NTU	CAPA-12-1182
R-49 S1	845	04/15/13	WG	Dissolved Oxygen	4.27	mg/L	CAPA-13-29572
R-49 S1	845	10/15/12	WG	Dissolved Oxygen	4.35	mg/L	CAPA-12-23807
R-49 S1	845	04/26/12	WG	Dissolved Oxygen	4.47	mg/L	CAPA-12-13237
R-49 S1	845	10/26/11	WG	Dissolved Oxygen	4.62	mg/L	CAPA-12-1153
R-49 S1	845	07/08/11	WG	Dissolved Oxygen	4.63	mg/L	CAPA-11-22697
R-49 S1	845	04/15/13	WG	Oxidation-Reduction Potential	137	mV	CAPA-13-29572
R-49 S1	845	10/15/12	WG	Oxidation-Reduction Potential	41.2	mV	CAPA-12-23807
R-49 S1	845	04/26/12	WG	Oxidation-Reduction Potential	-18.6	mV	CAPA-12-13237
R-49 S1	845	10/26/11	WG	Oxidation-Reduction Potential	23.7	mV	CAPA-12-1153

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-49 S1	845	07/08/11	WG	Oxidation-Reduction Potential	23.2	mV	CAPA-11-22697
R-49 S1	845	04/15/13	WG	pH	7.71	SU	CAPA-13-29572
R-49 S1	845	10/15/12	WG	pH	7	SU	CAPA-12-23807
R-49 S1	845	04/26/12	WG	pH	8.07	SU	CAPA-12-13237
R-49 S1	845	10/26/11	WG	pH	8.05	SU	CAPA-12-1153
R-49 S1	845	07/08/11	WG	pH	8.04	SU	CAPA-11-22697
R-49 S1	845	04/15/13	WG	Specific Conductance	152	µS/cm	CAPA-13-29572
R-49 S1	845	10/15/12	WG	Specific Conductance	152	µS/cm	CAPA-12-23807
R-49 S1	845	04/26/12	WG	Specific Conductance	166	µS/cm	CAPA-12-13237
R-49 S1	845	10/26/11	WG	Specific Conductance	156	µS/cm	CAPA-12-1153
R-49 S1	845	07/08/11	WG	Specific Conductance	160	µS/cm	CAPA-11-22697
R-49 S1	845	04/15/13	WG	Temperature	22.29	deg C	CAPA-13-29572
R-49 S1	845	10/15/12	WG	Temperature	22.65	deg C	CAPA-12-23807
R-49 S1	845	04/26/12	WG	Temperature	23.04	deg C	CAPA-12-13237
R-49 S1	845	10/26/11	WG	Temperature	20.93	deg C	CAPA-12-1153
R-49 S1	845	07/08/11	WG	Temperature	23.17	deg C	CAPA-11-22697
R-49 S1	845	04/15/13	WG	Turbidity	1	NTU	CAPA-13-29572
R-49 S1	845	10/15/12	WG	Turbidity	1.94	NTU	CAPA-12-23807
R-49 S1	845	04/26/12	WG	Turbidity	5.28	NTU	CAPA-12-13237
R-49 S1	845	10/26/11	WG	Turbidity	2.98	NTU	CAPA-12-1153
R-49 S1	845	07/08/11	WG	Turbidity	1.69	NTU	CAPA-11-22697
R-49 S2	905.6	04/19/13	WG	Dissolved Oxygen	6.65	mg/L	CAPA-13-29573
R-49 S2	905.6	10/25/12	WG	Dissolved Oxygen	6.54	mg/L	CAPA-12-23808
R-49 S2	905.6	05/01/12	WG	Dissolved Oxygen	6.53	mg/L	CAPA-12-13238
R-49 S2	905.6	10/27/11	WG	Dissolved Oxygen	6.68	mg/L	CAPA-12-1156
R-49 S2	905.6	07/25/11	WG	Dissolved Oxygen	6.48	mg/L	CAPA-11-22909
R-49 S2	905.6	04/19/13	WG	Oxidation-Reduction Potential	173.5	mV	CAPA-13-29573
R-49 S2	905.6	10/25/12	WG	Oxidation-Reduction Potential	186.2	mV	CAPA-12-23808

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-49 S2	905.6	05/01/12	WG	Oxidation-Reduction Potential	55.4	mV	CAPA-12-13238
R-49 S2	905.6	10/27/11	WG	Oxidation-Reduction Potential	151.1	mV	CAPA-12-1156
R-49 S2	905.6	07/25/11	WG	Oxidation-Reduction Potential	220.7	mV	CAPA-11-22909
R-49 S2	905.6	04/19/13	WG	pH	7.81	SU	CAPA-13-29573
R-49 S2	905.6	10/25/12	WG	pH	8.03	SU	CAPA-12-23808
R-49 S2	905.6	05/01/12	WG	pH	8.08	SU	CAPA-12-13238
R-49 S2	905.6	10/27/11	WG	pH	8.04	SU	CAPA-12-1156
R-49 S2	905.6	07/25/11	WG	pH	7.97	SU	CAPA-11-22909
R-49 S2	905.6	04/19/13	WG	Specific Conductance	141	µS/cm	CAPA-13-29573
R-49 S2	905.6	10/25/12	WG	Specific Conductance	141	µS/cm	CAPA-12-23808
R-49 S2	905.6	05/01/12	WG	Specific Conductance	144	µS/cm	CAPA-12-13238
R-49 S2	905.6	10/27/11	WG	Specific Conductance	141	µS/cm	CAPA-12-1156
R-49 S2	905.6	07/25/11	WG	Specific Conductance	146	µS/cm	CAPA-11-22909
R-49 S2	905.6	04/19/13	WG	Temperature	21.59	deg C	CAPA-13-29573
R-49 S2	905.6	10/25/12	WG	Temperature	21.59	deg C	CAPA-12-23808
R-49 S2	905.6	05/01/12	WG	Temperature	22.17	deg C	CAPA-12-13238
R-49 S2	905.6	10/27/11	WG	Temperature	21.65	deg C	CAPA-12-1156
R-49 S2	905.6	07/25/11	WG	Temperature	22.72	deg C	CAPA-11-22909
R-49 S2	905.6	04/19/13	WG	Turbidity	0.1	NTU	CAPA-13-29573
R-49 S2	905.6	10/25/12	WG	Turbidity	0.55	NTU	CAPA-12-23808
R-49 S2	905.6	05/01/12	WG	Turbidity	0.36	NTU	CAPA-12-13238
R-49 S2	905.6	10/27/11	WG	Turbidity	0.78	NTU	CAPA-12-1156
R-49 S2	905.6	07/25/11	WG	Turbidity	0.16	NTU	CAPA-11-22909
R-51 S1	914.96	04/25/13	WG	Dissolved Oxygen	8.03	mg/L	CAPA-13-29574
R-51 S1	914.96	10/10/12	WG	Dissolved Oxygen	8.15	mg/L	CAPA-12-23809
R-51 S1	914.96	04/23/12	WG	Dissolved Oxygen	8.06	mg/L	CAPA-12-13239
R-51 S1	914.96	10/21/11	WG	Dissolved Oxygen	9.37	mg/L	CAPA-12-1159
R-51 S1	914.96	07/28/11	WG	Dissolved Oxygen	7.44	mg/L	CAPA-11-22912

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-51 S1	914.96	04/25/13	WG	Oxidation-Reduction Potential	232.5	mV	CAPA-13-29574
R-51 S1	914.96	10/10/12	WG	Oxidation-Reduction Potential	39.4	mV	CAPA-12-23809
R-51 S1	914.96	04/23/12	WG	Oxidation-Reduction Potential	34.1	mV	CAPA-12-13239
R-51 S1	914.96	10/21/11	WG	Oxidation-Reduction Potential	83.5	mV	CAPA-12-1159
R-51 S1	914.96	07/28/11	WG	Oxidation-Reduction Potential	178.4	mV	CAPA-11-22912
R-51 S1	914.96	04/25/13	WG	pH	8.05	SU	CAPA-13-29574
R-51 S1	914.96	10/10/12	WG	pH	8.07	SU	CAPA-12-23809
R-51 S1	914.96	04/23/12	WG	pH	8.16	SU	CAPA-12-13239
R-51 S1	914.96	10/21/11	WG	pH	8.2	SU	CAPA-12-1159
R-51 S1	914.96	07/28/11	WG	pH	8.16	SU	CAPA-11-22912
R-51 S1	914.96	04/25/13	WG	Specific Conductance	122	µS/cm	CAPA-13-29574
R-51 S1	914.96	10/10/12	WG	Specific Conductance	111	µS/cm	CAPA-12-23809
R-51 S1	914.96	04/23/12	WG	Specific Conductance	119	µS/cm	CAPA-12-13239
R-51 S1	914.96	10/21/11	WG	Specific Conductance	123	µS/cm	CAPA-12-1159
R-51 S1	914.96	07/28/11	WG	Specific Conductance	103	µS/cm	CAPA-11-22912
R-51 S1	914.96	04/25/13	WG	Temperature	20.24	deg C	CAPA-13-29574
R-51 S1	914.96	10/10/12	WG	Temperature	20.47	deg C	CAPA-12-23809
R-51 S1	914.96	04/23/12	WG	Temperature	21.24	deg C	CAPA-12-13239
R-51 S1	914.96	10/21/11	WG	Temperature	20.69	deg C	CAPA-12-1159
R-51 S1	914.96	07/28/11	WG	Temperature	21.1	deg C	CAPA-11-22912
R-51 S1	914.96	04/25/13	WG	Turbidity	7.8	NTU	CAPA-13-29574
R-51 S1	914.96	10/10/12	WG	Turbidity	0.68	NTU	CAPA-12-23809
R-51 S1	914.96	04/23/12	WG	Turbidity	1.29	NTU	CAPA-12-13239
R-51 S1	914.96	10/21/11	WG	Turbidity	0.59	NTU	CAPA-12-1159
R-51 S1	914.96	07/28/11	WG	Turbidity	2.4	NTU	CAPA-11-22912
R-51 S2	1030.96	04/25/13	WG	Dissolved Oxygen	6.33	mg/L	CAPA-13-29575
R-51 S2	1030.96	10/10/12	WG	Dissolved Oxygen	6.44	mg/L	CAPA-12-23810
R-51 S2	1030.96	04/23/12	WG	Dissolved Oxygen	6	mg/L	CAPA-12-13240

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-51 S2	1030.96	10/21/11	WG	Dissolved Oxygen	5.81	mg/L	CAPA-12-1164
R-51 S2	1030.96	07/28/11	WG	Dissolved Oxygen	6.52	mg/L	CAPA-11-14786
R-51 S2	1030.96	07/28/11	WG	Dissolved Oxygen	6.28	mg/L	CAPA-11-14788
R-51 S2	1030.96	07/28/11	WG	Dissolved Oxygen	6.49	mg/L	CAPA-11-14700
R-51 S2	1030.96	07/28/11	WG	Dissolved Oxygen	6.01	mg/L	CAPA-11-22928
R-51 S2	1030.96	04/25/13	WG	Oxidation-Reduction Potential	188.3	mV	CAPA-13-29575
R-51 S2	1030.96	10/10/12	WG	Oxidation-Reduction Potential	12.5	mV	CAPA-12-23810
R-51 S2	1030.96	04/23/12	WG	Oxidation-Reduction Potential	17.3	mV	CAPA-12-13240
R-51 S2	1030.96	10/21/11	WG	Oxidation-Reduction Potential	39.5	mV	CAPA-12-1164
R-51 S2	1030.96	07/28/11	WG	Oxidation-Reduction Potential	91.8	mV	CAPA-11-14786
R-51 S2	1030.96	07/28/11	WG	Oxidation-Reduction Potential	113.8	mV	CAPA-11-14788
R-51 S2	1030.96	07/28/11	WG	Oxidation-Reduction Potential	130.9	mV	CAPA-11-14700
R-51 S2	1030.96	07/28/11	WG	Oxidation-Reduction Potential	140.8	mV	CAPA-11-22928
R-51 S2	1030.96	04/25/13	WG	pH	8.11	SU	CAPA-13-29575
R-51 S2	1030.96	10/10/12	WG	pH	8.12	SU	CAPA-12-23810
R-51 S2	1030.96	04/23/12	WG	pH	8.25	SU	CAPA-12-13240
R-51 S2	1030.96	10/21/11	WG	pH	8.27	SU	CAPA-12-1164
R-51 S2	1030.96	07/28/11	WG	pH	8.19	SU	CAPA-11-14786
R-51 S2	1030.96	07/28/11	WG	pH	8.19	SU	CAPA-11-14788
R-51 S2	1030.96	07/28/11	WG	pH	8.17	SU	CAPA-11-14700
R-51 S2	1030.96	07/28/11	WG	pH	8.07	SU	CAPA-11-22928
R-51 S2	1030.96	04/25/13	WG	Specific Conductance	124	µS/cm	CAPA-13-29575
R-51 S2	1030.96	10/10/12	WG	Specific Conductance	118	µS/cm	CAPA-12-23810
R-51 S2	1030.96	04/23/12	WG	Specific Conductance	127	µS/cm	CAPA-12-13240
R-51 S2	1030.96	10/21/11	WG	Specific Conductance	122	µS/cm	CAPA-12-1164
R-51 S2	1030.96	07/28/11	WG	Specific Conductance	118	µS/cm	CAPA-11-14786
R-51 S2	1030.96	07/28/11	WG	Specific Conductance	111	µS/cm	CAPA-11-14788
R-51 S2	1030.96	07/28/11	WG	Specific Conductance	101	µS/cm	CAPA-11-14700

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-51 S2	1030.96	07/28/11	WG	Specific Conductance	114	µS/cm	CAPA-11-22928
R-51 S2	1030.96	04/25/13	WG	Temperature	21.3	deg C	CAPA-13-29575
R-51 S2	1030.96	10/10/12	WG	Temperature	21.81	deg C	CAPA-12-23810
R-51 S2	1030.96	04/23/12	WG	Temperature	21.61	deg C	CAPA-12-13240
R-51 S2	1030.96	10/21/11	WG	Temperature	21.63	deg C	CAPA-12-1164
R-51 S2	1030.96	07/28/11	WG	Temperature	21.6	deg C	CAPA-11-14786
R-51 S2	1030.96	07/28/11	WG	Temperature	21.79	deg C	CAPA-11-14788
R-51 S2	1030.96	07/28/11	WG	Temperature	21.93	deg C	CAPA-11-14700
R-51 S2	1030.96	07/28/11	WG	Temperature	21.93	deg C	CAPA-11-22928
R-51 S2	1030.96	04/25/13	WG	Turbidity	0.9	NTU	CAPA-13-29575
R-51 S2	1030.96	10/10/12	WG	Turbidity	0.56	NTU	CAPA-12-23810
R-51 S2	1030.96	04/23/12	WG	Turbidity	0.63	NTU	CAPA-12-13240
R-51 S2	1030.96	10/21/11	WG	Turbidity	1.36	NTU	CAPA-12-1164
R-51 S2	1030.96	07/28/11	WG	Turbidity	2.59	NTU	CAPA-11-14786
R-51 S2	1030.96	07/28/11	WG	Turbidity	1.05	NTU	CAPA-11-14788
R-51 S2	1030.96	07/28/11	WG	Turbidity	0.82	NTU	CAPA-11-14700
R-51 S2	1030.96	07/28/11	WG	Turbidity	0.74	NTU	CAPA-11-22928
R-52 S1	1035.2	04/11/13	WG	Dissolved Oxygen	8.68	mg/L	CAPA-13-29576
R-52 S1	1035.2	10/16/12	WG	Dissolved Oxygen	8.46	mg/L	CAPA-12-23811
R-52 S1	1035.2	04/27/12	WG	Dissolved Oxygen	7.87	mg/L	CAPA-12-13241
R-52 S1	1035.2	11/01/11	WG	Dissolved Oxygen	7.51	mg/L	CAPA-12-1187
R-52 S1	1035.2	07/18/11	WG	Dissolved Oxygen	8.68	mg/L	CAPA-11-22933
R-52 S1	1035.2	04/11/13	WG	Oxidation-Reduction Potential	134.2	mV	CAPA-13-29576
R-52 S1	1035.2	10/16/12	WG	Oxidation-Reduction Potential	42.8	mV	CAPA-12-23811
R-52 S1	1035.2	04/27/12	WG	Oxidation-Reduction Potential	41.2	mV	CAPA-12-13241
R-52 S1	1035.2	11/01/11	WG	Oxidation-Reduction Potential	132.6	mV	CAPA-12-1187
R-52 S1	1035.2	07/18/11	WG	Oxidation-Reduction Potential	141.4	mV	CAPA-11-22933
R-52 S1	1035.2	04/11/13	WG	pH	8.14	SU	CAPA-13-29576

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-52 S1	1035.2	10/16/12	WG	pH	8.03	SU	CAPA-12-23811
R-52 S1	1035.2	04/27/12	WG	pH	8.15	SU	CAPA-12-13241
R-52 S1	1035.2	11/01/11	WG	pH	8.35	SU	CAPA-12-1187
R-52 S1	1035.2	07/18/11	WG	pH	8.13	SU	CAPA-11-22933
R-52 S1	1035.2	04/11/13	WG	Specific Conductance	144	µS/cm	CAPA-13-29576
R-52 S1	1035.2	10/16/12	WG	Specific Conductance	132	µS/cm	CAPA-12-23811
R-52 S1	1035.2	04/27/12	WG	Specific Conductance	143	µS/cm	CAPA-12-13241
R-52 S1	1035.2	11/01/11	WG	Specific Conductance	139	µS/cm	CAPA-12-1187
R-52 S1	1035.2	07/18/11	WG	Specific Conductance	140	µS/cm	CAPA-11-22933
R-52 S1	1035.2	04/11/13	WG	Temperature	21.39	deg C	CAPA-13-29576
R-52 S1	1035.2	10/16/12	WG	Temperature	22.05	deg C	CAPA-12-23811
R-52 S1	1035.2	04/27/12	WG	Temperature	21.74	deg C	CAPA-12-13241
R-52 S1	1035.2	11/01/11	WG	Temperature	21.66	deg C	CAPA-12-1187
R-52 S1	1035.2	07/18/11	WG	Temperature	22.06	deg C	CAPA-11-22933
R-52 S1	1035.2	04/11/13	WG	Turbidity	0.8	NTU	CAPA-13-29576
R-52 S1	1035.2	10/16/12	WG	Turbidity	0.8	NTU	CAPA-12-23811
R-52 S1	1035.2	04/27/12	WG	Turbidity	0.5	NTU	CAPA-12-13241
R-52 S1	1035.2	11/01/11	WG	Turbidity	0.46	NTU	CAPA-12-1187
R-52 S1	1035.2	07/18/11	WG	Turbidity	0.68	NTU	CAPA-11-22933
R-52 S2	1107	04/11/13	WG	Dissolved Oxygen	7.34	mg/L	CAPA-13-29577
R-52 S2	1107	10/16/12	WG	Dissolved Oxygen	7.22	mg/L	CAPA-12-23812
R-52 S2	1107	04/27/12	WG	Dissolved Oxygen	7.12	mg/L	CAPA-12-13242
R-52 S2	1107	11/01/11	WG	Dissolved Oxygen	7.04	mg/L	CAPA-12-1189
R-52 S2	1107	11/01/11	WG	Dissolved Oxygen	7.44	mg/L	CAPA-12-1313
R-52 S2	1107	11/01/11	WG	Dissolved Oxygen	7.31	mg/L	CAPA-12-1315
R-52 S2	1107	07/18/11	WG	Dissolved Oxygen	7.86	mg/L	CAPA-11-14716
R-52 S2	1107	07/18/11	WG	Dissolved Oxygen	7.66	mg/L	CAPA-11-22936
R-52 S2	1107	07/18/11	WG	Dissolved Oxygen	7.66	mg/L	CAPA-11-14784

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-52 S2	1107	07/18/11	WG	Dissolved Oxygen	6.65	mg/L	CAPA-11-14712
R-52 S2	1107	07/18/11	WG	Dissolved Oxygen	7.8	mg/L	CAPA-11-14714
R-52 S2	1107	04/11/13	WG	Oxidation-Reduction Potential	164.6	mV	CAPA-13-29577
R-52 S2	1107	10/16/12	WG	Oxidation-Reduction Potential	12	mV	CAPA-12-23812
R-52 S2	1107	04/27/12	WG	Oxidation-Reduction Potential	47.1	mV	CAPA-12-13242
R-52 S2	1107	11/01/11	WG	Oxidation-Reduction Potential	78.2	mV	CAPA-12-1189
R-52 S2	1107	11/01/11	WG	Oxidation-Reduction Potential	-15.1	mV	CAPA-12-1313
R-52 S2	1107	11/01/11	WG	Oxidation-Reduction Potential	30.6	mV	CAPA-12-1315
R-52 S2	1107	07/18/11	WG	Oxidation-Reduction Potential	86.5	mV	CAPA-11-14716
R-52 S2	1107	07/18/11	WG	Oxidation-Reduction Potential	97.7	mV	CAPA-11-22936
R-52 S2	1107	07/18/11	WG	Oxidation-Reduction Potential	97.7	mV	CAPA-11-14784
R-52 S2	1107	07/18/11	WG	Oxidation-Reduction Potential	1.3	mV	CAPA-11-14712
R-52 S2	1107	07/18/11	WG	Oxidation-Reduction Potential	61.6	mV	CAPA-11-14714
R-52 S2	1107	04/11/13	WG	pH	7.82	SU	CAPA-13-29577
R-52 S2	1107	10/16/12	WG	pH	7.82	SU	CAPA-12-23812
R-52 S2	1107	04/27/12	WG	pH	7.87	SU	CAPA-12-13242
R-52 S2	1107	11/01/11	WG	pH	7.7	SU	CAPA-12-1189
R-52 S2	1107	11/01/11	WG	pH	7.85	SU	CAPA-12-1313
R-52 S2	1107	11/01/11	WG	pH	7.7	SU	CAPA-12-1315
R-52 S2	1107	07/18/11	WG	pH	7.87	SU	CAPA-11-14716
R-52 S2	1107	07/18/11	WG	pH	7.88	SU	CAPA-11-22936
R-52 S2	1107	07/18/11	WG	pH	7.88	SU	CAPA-11-14784
R-52 S2	1107	07/18/11	WG	pH	7.83	SU	CAPA-11-14712
R-52 S2	1107	07/18/11	WG	pH	7.86	SU	CAPA-11-14714
R-52 S2	1107	04/11/13	WG	Specific Conductance	126	µS/cm	CAPA-13-29577
R-52 S2	1107	10/16/12	WG	Specific Conductance	117	µS/cm	CAPA-12-23812
R-52 S2	1107	04/27/12	WG	Specific Conductance	12.6	µS/cm	CAPA-12-13242
R-52 S2	1107	11/01/11	WG	Specific Conductance	114	µS/cm	CAPA-12-1189

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-52 S2	1107	11/01/11	WG	Specific Conductance	125	µS/cm	CAPA-12-1313
R-52 S2	1107	11/01/11	WG	Specific Conductance	120	µS/cm	CAPA-12-1315
R-52 S2	1107	07/18/11	WG	Specific Conductance	119	µS/cm	CAPA-11-14716
R-52 S2	1107	07/18/11	WG	Specific Conductance	113	µS/cm	CAPA-11-22936
R-52 S2	1107	07/18/11	WG	Specific Conductance	113	µS/cm	CAPA-11-14784
R-52 S2	1107	07/18/11	WG	Specific Conductance	118	µS/cm	CAPA-11-14712
R-52 S2	1107	07/18/11	WG	Specific Conductance	113	µS/cm	CAPA-11-14714
R-52 S2	1107	04/11/13	WG	Temperature	21.14	deg C	CAPA-13-29577
R-52 S2	1107	10/16/12	WG	Temperature	21.27	deg C	CAPA-12-23812
R-52 S2	1107	04/27/12	WG	Temperature	21.4	deg C	CAPA-12-13242
R-52 S2	1107	11/01/11	WG	Temperature	21.31	deg C	CAPA-12-1189
R-52 S2	1107	11/01/11	WG	Temperature	20.36	deg C	CAPA-12-1313
R-52 S2	1107	11/01/11	WG	Temperature	21.04	deg C	CAPA-12-1315
R-52 S2	1107	07/18/11	WG	Temperature	21.88	deg C	CAPA-11-14716
R-52 S2	1107	07/18/11	WG	Temperature	21.98	deg C	CAPA-11-22936
R-52 S2	1107	07/18/11	WG	Temperature	21.98	deg C	CAPA-11-14784
R-52 S2	1107	07/18/11	WG	Temperature	20.89	deg C	CAPA-11-14712
R-52 S2	1107	07/18/11	WG	Temperature	21.63	deg C	CAPA-11-14714
R-52 S2	1107	04/11/13	WG	Turbidity	0.3	NTU	CAPA-13-29577
R-52 S2	1107	10/16/12	WG	Turbidity	0.24	NTU	CAPA-12-23812
R-52 S2	1107	04/27/12	WG	Turbidity	0.28	NTU	CAPA-12-13242
R-52 S2	1107	11/01/11	WG	Turbidity	0.96	NTU	CAPA-12-1189
R-52 S2	1107	11/01/11	WG	Turbidity	1.74	NTU	CAPA-12-1313
R-52 S2	1107	11/01/11	WG	Turbidity	1.06	NTU	CAPA-12-1315
R-52 S2	1107	07/18/11	WG	Turbidity	0.4	NTU	CAPA-11-14716
R-52 S2	1107	07/18/11	WG	Turbidity	0.23	NTU	CAPA-11-22936
R-52 S2	1107	07/18/11	WG	Turbidity	0.23	NTU	CAPA-11-14784
R-52 S2	1107	07/18/11	WG	Turbidity	0.38	NTU	CAPA-11-14712

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-52 S2	1107	07/18/11	WG	Turbidity	0.38	NTU	CAPA-11-14714
R-53 S1	849.2	04/08/13	WG	Dissolved Oxygen	6.09	mg/L	CAPA-13-29578
R-53 S1	849.2	10/11/12	WG	Dissolved Oxygen	6.09	mg/L	CAPA-12-23813
R-53 S1	849.2	04/24/12	WG	Dissolved Oxygen	6.12	mg/L	CAPA-12-13243
R-53 S1	849.2	10/25/11	WG	Dissolved Oxygen	6.15	mg/L	CAPA-12-1192
R-53 S1	849.2	07/14/11	WG	Dissolved Oxygen	5.84	mg/L	CAPA-11-22939
R-53 S1	849.2	04/08/13	WG	Oxidation-Reduction Potential	104.8	mV	CAPA-13-29578
R-53 S1	849.2	10/11/12	WG	Oxidation-Reduction Potential	67.3	mV	CAPA-12-23813
R-53 S1	849.2	04/24/12	WG	Oxidation-Reduction Potential	18.8	mV	CAPA-12-13243
R-53 S1	849.2	10/25/11	WG	Oxidation-Reduction Potential	107.9	mV	CAPA-12-1192
R-53 S1	849.2	07/14/11	WG	Oxidation-Reduction Potential	118.1	mV	CAPA-11-22939
R-53 S1	849.2	04/08/13	WG	pH	8	SU	CAPA-13-29578
R-53 S1	849.2	10/11/12	WG	pH	8.09	SU	CAPA-12-23813
R-53 S1	849.2	04/24/12	WG	pH	7.97	SU	CAPA-12-13243
R-53 S1	849.2	10/25/11	WG	pH	7.98	SU	CAPA-12-1192
R-53 S1	849.2	07/14/11	WG	pH	8.02	SU	CAPA-11-22939
R-53 S1	849.2	04/08/13	WG	Specific Conductance	127	µS/cm	CAPA-13-29578
R-53 S1	849.2	10/11/12	WG	Specific Conductance	129	µS/cm	CAPA-12-23813
R-53 S1	849.2	04/24/12	WG	Specific Conductance	129	µS/cm	CAPA-12-13243
R-53 S1	849.2	10/25/11	WG	Specific Conductance	123	µS/cm	CAPA-12-1192
R-53 S1	849.2	07/14/11	WG	Specific Conductance	127	µS/cm	CAPA-11-22939
R-53 S1	849.2	04/08/13	WG	Temperature	21.03	deg C	CAPA-13-29578
R-53 S1	849.2	10/11/12	WG	Temperature	21.44	deg C	CAPA-12-23813
R-53 S1	849.2	04/24/12	WG	Temperature	21.91	deg C	CAPA-12-13243
R-53 S1	849.2	10/25/11	WG	Temperature	21.37	deg C	CAPA-12-1192
R-53 S1	849.2	07/14/11	WG	Temperature	22.39	deg C	CAPA-11-22939
R-53 S1	849.2	04/08/13	WG	Turbidity	0.2	NTU	CAPA-13-29578
R-53 S1	849.2	10/11/12	WG	Turbidity	0.37	NTU	CAPA-12-23813

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-53 S1	849.2	04/24/12	WG	Turbidity	0.46	NTU	CAPA-12-13243
R-53 S1	849.2	10/25/11	WG	Turbidity	0.54	NTU	CAPA-12-1192
R-53 S1	849.2	07/14/11	WG	Turbidity	0.4	NTU	CAPA-11-22939
R-53 S2	959.7	04/08/13	WG	Dissolved Oxygen	6.38	mg/L	CAPA-13-29579
R-53 S2	959.7	10/11/12	WG	Dissolved Oxygen	6.01	mg/L	CAPA-12-23814
R-53 S2	959.7	04/24/12	WG	Dissolved Oxygen	6.39	mg/L	CAPA-12-13244
R-53 S2	959.7	10/25/11	WG	Dissolved Oxygen	6.3	mg/L	CAPA-12-1196
R-53 S2	959.7	07/14/11	WG	Dissolved Oxygen	6.4	mg/L	CAPA-11-22941
R-53 S2	959.7	04/08/13	WG	Oxidation-Reduction Potential	106.6	mV	CAPA-13-29579
R-53 S2	959.7	10/11/12	WG	Oxidation-Reduction Potential	104.5	mV	CAPA-12-23814
R-53 S2	959.7	04/24/12	WG	Oxidation-Reduction Potential	12.4	mV	CAPA-12-13244
R-53 S2	959.7	10/25/11	WG	Oxidation-Reduction Potential	95	mV	CAPA-12-1196
R-53 S2	959.7	07/14/11	WG	Oxidation-Reduction Potential	121.6	mV	CAPA-11-22941
R-53 S2	959.7	04/08/13	WG	pH	8.03	SU	CAPA-13-29579
R-53 S2	959.7	10/11/12	WG	pH	8.2	SU	CAPA-12-23814
R-53 S2	959.7	04/24/12	WG	pH	8.2	SU	CAPA-12-13244
R-53 S2	959.7	10/25/11	WG	pH	8.13	SU	CAPA-12-1196
R-53 S2	959.7	07/14/11	WG	pH	8.1	SU	CAPA-11-22941
R-53 S2	959.7	04/08/13	WG	Specific Conductance	124	µS/cm	CAPA-13-29579
R-53 S2	959.7	10/11/12	WG	Specific Conductance	126	µS/cm	CAPA-12-23814
R-53 S2	959.7	04/24/12	WG	Specific Conductance	125	µS/cm	CAPA-12-13244
R-53 S2	959.7	10/25/11	WG	Specific Conductance	120	µS/cm	CAPA-12-1196
R-53 S2	959.7	07/14/11	WG	Specific Conductance	126	µS/cm	CAPA-11-22941
R-53 S2	959.7	04/08/13	WG	Temperature	21.58	deg C	CAPA-13-29579
R-53 S2	959.7	10/11/12	WG	Temperature	21.31	deg C	CAPA-12-23814
R-53 S2	959.7	04/24/12	WG	Temperature	22.54	deg C	CAPA-12-13244
R-53 S2	959.7	10/25/11	WG	Temperature	21.56	deg C	CAPA-12-1196
R-53 S2	959.7	07/14/11	WG	Temperature	22.04	deg C	CAPA-11-22941

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-53 S2	959.7	04/08/13	WG	Turbidity	0	NTU	CAPA-13-29579
R-53 S2	959.7	10/11/12	WG	Turbidity	0.39	NTU	CAPA-12-23814
R-53 S2	959.7	04/24/12	WG	Turbidity	0.31	NTU	CAPA-12-13244
R-53 S2	959.7	10/25/11	WG	Turbidity	0.36	NTU	CAPA-12-1196
R-53 S2	959.7	07/14/11	WG	Turbidity	0.08	NTU	CAPA-11-22941
R-54 S1	830	04/16/13	WG	Dissolved Oxygen	0.55	mg/L	CAPA-13-29580
R-54 S1	830	10/24/12	WG	Dissolved Oxygen	1.05	mg/L	CAPA-12-23815
R-54 S1	830	05/04/12	WG	Dissolved Oxygen	1.21	mg/L	CAPA-12-13245
R-54 S1	830	11/02/11	WG	Dissolved Oxygen	2.13	mg/L	CAPA-12-1325
R-54 S1	830	11/02/11	WG	Dissolved Oxygen	2.76	mg/L	CAPA-12-1327
R-54 S1	830	11/02/11	WG	Dissolved Oxygen	0.88	mg/L	CAPA-12-1321
R-54 S1	830	11/02/11	WG	Dissolved Oxygen	1.21	mg/L	CAPA-12-1323
R-54 S1	830	11/02/11	WG	Dissolved Oxygen	3.03	mg/L	CAPA-12-1168
R-54 S1	830	11/02/11	WG	Dissolved Oxygen	1.36	mg/L	CAPA-12-1319
R-54 S1	830	11/02/11	WG	Dissolved Oxygen	3.36	mg/L	CAPA-12-1333
R-54 S1	830	11/02/11	WG	Dissolved Oxygen	4	mg/L	CAPA-12-1335
R-54 S1	830	11/02/11	WG	Dissolved Oxygen	3.03	mg/L	CAPA-12-1329
R-54 S1	830	11/02/11	WG	Dissolved Oxygen	3.51	mg/L	CAPA-12-1331
R-54 S1	830	07/12/11	WG	Dissolved Oxygen	0.77	mg/L	CAPA-11-14720
R-54 S1	830	07/12/11	WG	Dissolved Oxygen	1.13	mg/L	CAPA-11-14723
R-54 S1	830	07/12/11	WG	Dissolved Oxygen	0.67	mg/L	CAPA-11-14718
R-54 S1	830	07/12/11	WG	Dissolved Oxygen	1.5	mg/L	CAPA-11-22972
R-54 S1	830	04/16/13	WG	Oxidation-Reduction Potential	-71.6	mV	CAPA-13-29580
R-54 S1	830	10/24/12	WG	Oxidation-Reduction Potential	53.5	mV	CAPA-12-23815
R-54 S1	830	05/04/12	WG	Oxidation-Reduction Potential	-45.4	mV	CAPA-12-13245
R-54 S1	830	11/02/11	WG	Oxidation-Reduction Potential	-51.5	mV	CAPA-12-1325
R-54 S1	830	11/02/11	WG	Oxidation-Reduction Potential	-54.5	mV	CAPA-12-1327
R-54 S1	830	11/02/11	WG	Oxidation-Reduction Potential	-26.1	mV	CAPA-12-1321

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-54 S1	830	11/02/11	WG	Oxidation-Reduction Potential	-31.2	mV	CAPA-12-1323
R-54 S1	830	11/02/11	WG	Oxidation-Reduction Potential	-50.5	mV	CAPA-12-1168
R-54 S1	830	11/02/11	WG	Oxidation-Reduction Potential	-6.5	mV	CAPA-12-1319
R-54 S1	830	11/02/11	WG	Oxidation-Reduction Potential	-45	mV	CAPA-12-1333
R-54 S1	830	11/02/11	WG	Oxidation-Reduction Potential	-36.2	mV	CAPA-12-1335
R-54 S1	830	11/02/11	WG	Oxidation-Reduction Potential	-50.5	mV	CAPA-12-1329
R-54 S1	830	11/02/11	WG	Oxidation-Reduction Potential	-52.3	mV	CAPA-12-1331
R-54 S1	830	07/12/11	WG	Oxidation-Reduction Potential	-49.2	mV	CAPA-11-14720
R-54 S1	830	07/12/11	WG	Oxidation-Reduction Potential	-53.7	mV	CAPA-11-14723
R-54 S1	830	07/12/11	WG	Oxidation-Reduction Potential	-31.7	mV	CAPA-11-14718
R-54 S1	830	07/12/11	WG	Oxidation-Reduction Potential	-59.3	mV	CAPA-11-22972
R-54 S1	830	04/16/13	WG	pH	6.58	SU	CAPA-13-29580
R-54 S1	830	10/24/12	WG	pH	6.79	SU	CAPA-12-23815
R-54 S1	830	05/04/12	WG	pH	6.77	SU	CAPA-12-13245
R-54 S1	830	11/02/11	WG	pH	7.02	SU	CAPA-12-1325
R-54 S1	830	11/02/11	WG	pH	7.1	SU	CAPA-12-1327
R-54 S1	830	11/02/11	WG	pH	6.75	SU	CAPA-12-1321
R-54 S1	830	11/02/11	WG	pH	6.79	SU	CAPA-12-1323
R-54 S1	830	11/02/11	WG	pH	7.16	SU	CAPA-12-1168
R-54 S1	830	11/02/11	WG	pH	6.79	SU	CAPA-12-1319
R-54 S1	830	11/02/11	WG	pH	7.22	SU	CAPA-12-1333
R-54 S1	830	11/02/11	WG	pH	7.19	SU	CAPA-12-1335
R-54 S1	830	11/02/11	WG	pH	7.16	SU	CAPA-12-1329
R-54 S1	830	11/02/11	WG	pH	7.19	SU	CAPA-12-1331
R-54 S1	830	07/12/11	WG	pH	6.89	SU	CAPA-11-14720
R-54 S1	830	07/12/11	WG	pH	6.92	SU	CAPA-11-14723
R-54 S1	830	07/12/11	WG	pH	6.98	SU	CAPA-11-14718
R-54 S1	830	07/12/11	WG	pH	7.01	SU	CAPA-11-22972

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-54 S1	830	04/16/13	WG	Specific Conductance	178	µS/cm	CAPA-13-29580
R-54 S1	830	10/24/12	WG	Specific Conductance	184	µS/cm	CAPA-12-23815
R-54 S1	830	05/04/12	WG	Specific Conductance	177	µS/cm	CAPA-12-13245
R-54 S1	830	11/02/11	WG	Specific Conductance	151	µS/cm	CAPA-12-1325
R-54 S1	830	11/02/11	WG	Specific Conductance	135	µS/cm	CAPA-12-1327
R-54 S1	830	11/02/11	WG	Specific Conductance	195	µS/cm	CAPA-12-1321
R-54 S1	830	11/02/11	WG	Specific Conductance	187	µS/cm	CAPA-12-1323
R-54 S1	830	11/02/11	WG	Specific Conductance	130	µS/cm	CAPA-12-1168
R-54 S1	830	11/02/11	WG	Specific Conductance	163	µS/cm	CAPA-12-1319
R-54 S1	830	11/02/11	WG	Specific Conductance	114	µS/cm	CAPA-12-1333
R-54 S1	830	11/02/11	WG	Specific Conductance	115	µS/cm	CAPA-12-1335
R-54 S1	830	11/02/11	WG	Specific Conductance	130	µS/cm	CAPA-12-1329
R-54 S1	830	11/02/11	WG	Specific Conductance	122	µS/cm	CAPA-12-1331
R-54 S1	830	07/12/11	WG	Specific Conductance	197	µS/cm	CAPA-11-14720
R-54 S1	830	07/12/11	WG	Specific Conductance	184	µS/cm	CAPA-11-14723
R-54 S1	830	07/12/11	WG	Specific Conductance	176	µS/cm	CAPA-11-22972
R-54 S1	830	07/12/11	WG	Specific Conductance	170	µS/cm	CAPA-11-14718
R-54 S1	830	04/16/13	WG	Temperature	21.5	deg C	CAPA-13-29580
R-54 S1	830	10/24/12	WG	Temperature	21.16	deg C	CAPA-12-23815
R-54 S1	830	05/04/12	WG	Temperature	21.25	deg C	CAPA-12-13245
R-54 S1	830	11/02/11	WG	Temperature	19.89	deg C	CAPA-12-1325
R-54 S1	830	11/02/11	WG	Temperature	19.52	deg C	CAPA-12-1327
R-54 S1	830	11/02/11	WG	Temperature	19.13	deg C	CAPA-12-1321
R-54 S1	830	11/02/11	WG	Temperature	19.48	deg C	CAPA-12-1323
R-54 S1	830	11/02/11	WG	Temperature	19.31	deg C	CAPA-12-1168
R-54 S1	830	11/02/11	WG	Temperature	17.98	deg C	CAPA-12-1319
R-54 S1	830	11/02/11	WG	Temperature	20.83	deg C	CAPA-12-1333
R-54 S1	830	11/02/11	WG	Temperature	21.02	deg C	CAPA-12-1335

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-54 S1	830	11/02/11	WG	Temperature	19.31	deg C	CAPA-12-1329
R-54 S1	830	11/02/11	WG	Temperature	20.7	deg C	CAPA-12-1331
R-54 S1	830	07/12/11	WG	Temperature	22.22	deg C	CAPA-11-14720
R-54 S1	830	07/12/11	WG	Temperature	22.4	deg C	CAPA-11-14723
R-54 S1	830	07/12/11	WG	Temperature	21.05	deg C	CAPA-11-14718
R-54 S1	830	07/12/11	WG	Temperature	22.26	deg C	CAPA-11-22972
R-54 S1	830	04/16/13	WG	Turbidity	0.58	NTU	CAPA-13-29580
R-54 S1	830	10/24/12	WG	Turbidity	0.61	NTU	CAPA-12-23815
R-54 S1	830	05/04/12	WG	Turbidity	0.6	NTU	CAPA-12-13245
R-54 S1	830	11/02/11	WG	Turbidity	0.61	NTU	CAPA-12-1325
R-54 S1	830	11/02/11	WG	Turbidity	0.47	NTU	CAPA-12-1327
R-54 S1	830	11/02/11	WG	Turbidity	1.25	NTU	CAPA-12-1321
R-54 S1	830	11/02/11	WG	Turbidity	0.82	NTU	CAPA-12-1323
R-54 S1	830	11/02/11	WG	Turbidity	0.84	NTU	CAPA-12-1168
R-54 S1	830	11/02/11	WG	Turbidity	0.68	NTU	CAPA-12-1319
R-54 S1	830	11/02/11	WG	Turbidity	0.4	NTU	CAPA-12-1333
R-54 S1	830	11/02/11	WG	Turbidity	0.72	NTU	CAPA-12-1335
R-54 S1	830	11/02/11	WG	Turbidity	0.84	NTU	CAPA-12-1329
R-54 S1	830	11/02/11	WG	Turbidity	0.47	NTU	CAPA-12-1331
R-54 S1	830	07/12/11	WG	Turbidity	1.11	NTU	CAPA-11-14720
R-54 S1	830	07/12/11	WG	Turbidity	0.92	NTU	CAPA-11-14723
R-54 S1	830	07/12/11	WG	Turbidity	3.17	NTU	CAPA-11-14718
R-54 S1	830	07/12/11	WG	Turbidity	0.38	NTU	CAPA-11-22972
R-54 S2	915	04/16/13	WG	Dissolved Oxygen	6.41	mg/L	CAPA-13-29581
R-54 S2	915	10/24/12	WG	Dissolved Oxygen	6.3	mg/L	CAPA-12-23816
R-54 S2	915	05/04/12	WG	Dissolved Oxygen	6.31	mg/L	CAPA-12-13246
R-54 S2	915	10/31/11	WG	Dissolved Oxygen	6.46	mg/L	CAPA-12-1172
R-54 S2	915	07/12/11	WG	Dissolved Oxygen	6.8	mg/L	CAPA-11-22976

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-54 S2	915	04/16/13	WG	Oxidation-Reduction Potential	66.9	mV	CAPA-13-29581
R-54 S2	915	10/24/12	WG	Oxidation-Reduction Potential	98.5	mV	CAPA-12-23816
R-54 S2	915	05/04/12	WG	Oxidation-Reduction Potential	30	mV	CAPA-12-13246
R-54 S2	915	10/31/11	WG	Oxidation-Reduction Potential	100.6	mV	CAPA-12-1172
R-54 S2	915	07/12/11	WG	Oxidation-Reduction Potential	56.4	mV	CAPA-11-22976
R-54 S2	915	04/16/13	WG	pH	8.22	SU	CAPA-13-29581
R-54 S2	915	10/24/12	WG	pH	8.37	SU	CAPA-12-23816
R-54 S2	915	05/04/12	WG	pH	8.31	SU	CAPA-12-13246
R-54 S2	915	10/31/11	WG	pH	8.28	SU	CAPA-12-1172
R-54 S2	915	07/12/11	WG	pH	8.27	SU	CAPA-11-22976
R-54 S2	915	04/16/13	WG	Specific Conductance	126	µS/cm	CAPA-13-29581
R-54 S2	915	10/24/12	WG	Specific Conductance	131	µS/cm	CAPA-12-23816
R-54 S2	915	05/04/12	WG	Specific Conductance	121	µS/cm	CAPA-12-13246
R-54 S2	915	10/31/11	WG	Specific Conductance	129	µS/cm	CAPA-12-1172
R-54 S2	915	07/12/11	WG	Specific Conductance	125	µS/cm	CAPA-11-22976
R-54 S2	915	04/16/13	WG	Temperature	21.47	deg C	CAPA-13-29581
R-54 S2	915	10/24/12	WG	Temperature	21.03	deg C	CAPA-12-23816
R-54 S2	915	05/04/12	WG	Temperature	21.77	deg C	CAPA-12-13246
R-54 S2	915	10/31/11	WG	Temperature	21.43	deg C	CAPA-12-1172
R-54 S2	915	07/12/11	WG	Temperature	22.41	deg C	CAPA-11-22976
R-54 S2	915	04/16/13	WG	Turbidity	0.61	NTU	CAPA-13-29581
R-54 S2	915	10/24/12	WG	Turbidity	0.55	NTU	CAPA-12-23816
R-54 S2	915	05/04/12	WG	Turbidity	0.63	NTU	CAPA-12-13246
R-54 S2	915	10/31/11	WG	Turbidity	0.83	NTU	CAPA-12-1172
R-54 S2	915	07/12/11	WG	Turbidity	0.46	NTU	CAPA-11-22976
R-55 S1	860	04/18/13	WG	Dissolved Oxygen	6.32	mg/L	CAMO-13-29629
R-55 S1	860	10/24/12	WG	Dissolved Oxygen	6.29	mg/L	CAMO-12-23862
R-55 S1	860	04/26/12	WG	Dissolved Oxygen	6.27	mg/L	CAPA-12-13263

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-55 S1	860	10/28/11	WG	Dissolved Oxygen	6.39	mg/L	CAPA-12-1201
R-55 S1	860	07/15/11	WG	Dissolved Oxygen	6.22	mg/L	CAPA-11-14731
R-55 S1	860	07/15/11	WG	Dissolved Oxygen	6.4	mg/L	CAPA-11-14733
R-55 S1	860	07/15/11	WG	Dissolved Oxygen	6.3	mg/L	CAPA-11-14735
R-55 S1	860	07/15/11	WG	Dissolved Oxygen	6.56	mg/L	CAPA-11-23022
R-55 S1	860	04/18/13	WG	Oxidation-Reduction Potential	61.8	mV	CAMO-13-29629
R-55 S1	860	10/24/12	WG	Oxidation-Reduction Potential	89.2	mV	CAMO-12-23862
R-55 S1	860	04/26/12	WG	Oxidation-Reduction Potential	193.9	mV	CAPA-12-13263
R-55 S1	860	07/15/11	WG	Oxidation-Reduction Potential	266.9	mV	CAPA-11-14731
R-55 S1	860	07/15/11	WG	Oxidation-Reduction Potential	260.2	mV	CAPA-11-14733
R-55 S1	860	07/15/11	WG	Oxidation-Reduction Potential	265.4	mV	CAPA-11-14735
R-55 S1	860	07/15/11	WG	Oxidation-Reduction Potential	265.2	mV	CAPA-11-23022
R-55 S1	860	04/28/11	WG	Oxidation-Reduction Potential	45.7	mV	CAPA-11-9505
R-55 S1	860	04/18/13	WG	pH	8.22	SU	CAMO-13-29629
R-55 S1	860	10/24/12	WG	pH	8.19	SU	CAMO-12-23862
R-55 S1	860	04/26/12	WG	pH	8.26	SU	CAPA-12-13263
R-55 S1	860	10/28/11	WG	pH	8.15	SU	CAPA-12-1201
R-55 S1	860	07/15/11	WG	pH	8.17	SU	CAPA-11-14731
R-55 S1	860	07/15/11	WG	pH	8.08	SU	CAPA-11-14733
R-55 S1	860	07/15/11	WG	pH	8.08	SU	CAPA-11-14735
R-55 S1	860	07/15/11	WG	pH	8.08	SU	CAPA-11-23022
R-55 S1	860	04/18/13	WG	Specific Conductance	174	µS/cm	CAMO-13-29629
R-55 S1	860	10/24/12	WG	Specific Conductance	173	µS/cm	CAMO-12-23862
R-55 S1	860	04/26/12	WG	Specific Conductance	177	µS/cm	CAPA-12-13263
R-55 S1	860	10/28/11	WG	Specific Conductance	176	µS/cm	CAPA-12-1201
R-55 S1	860	07/15/11	WG	Specific Conductance	174	µS/cm	CAPA-11-14731
R-55 S1	860	07/15/11	WG	Specific Conductance	167	µS/cm	CAPA-11-14733
R-55 S1	860	07/15/11	WG	Specific Conductance	168	µS/cm	CAPA-11-14735

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-55 S1	860	07/15/11	WG	Specific Conductance	168	µS/cm	CAPA-11-23022
R-55 S1	860	04/18/13	WG	Temperature	20.45	deg C	CAMO-13-29629
R-55 S1	860	10/24/12	WG	Temperature	22.26	deg C	CAMO-12-23862
R-55 S1	860	04/26/12	WG	Temperature	22.7	deg C	CAPA-12-13263
R-55 S1	860	10/28/11	WG	Temperature	22.12	deg C	CAPA-12-1201
R-55 S1	860	07/15/11	WG	Temperature	22.24	deg C	CAPA-11-14731
R-55 S1	860	07/15/11	WG	Temperature	22.43	deg C	CAPA-11-14733
R-55 S1	860	07/15/11	WG	Temperature	22.52	deg C	CAPA-11-14735
R-55 S1	860	07/15/11	WG	Temperature	22.63	deg C	CAPA-11-23022
R-55 S1	860	04/18/13	WG	Turbidity	0	NTU	CAMO-13-29629
R-55 S1	860	10/24/12	WG	Turbidity	0.25	NTU	CAMO-12-23862
R-55 S1	860	04/26/12	WG	Turbidity	0.21	NTU	CAPA-12-13263
R-55 S1	860	10/28/11	WG	Turbidity	0.36	NTU	CAPA-12-1201
R-55 S1	860	07/15/11	WG	Turbidity	0.47	NTU	CAPA-11-14731
R-55 S1	860	07/15/11	WG	Turbidity	0.41	NTU	CAPA-11-14733
R-55 S1	860	07/15/11	WG	Turbidity	0.26	NTU	CAPA-11-14735
R-55 S1	860	07/15/11	WG	Turbidity	0.21	NTU	CAPA-11-23022
R-55 S2	994.4	04/18/13	WG	Dissolved Oxygen	5.42	mg/L	CAMO-13-29630
R-55 S2	994.4	10/24/12	WG	Dissolved Oxygen	5.21	mg/L	CAMO-12-23863
R-55 S2	994.4	04/26/12	WG	Dissolved Oxygen	5.03	mg/L	CAPA-12-13264
R-55 S2	994.4	10/31/11	WG	Dissolved Oxygen	4.84	mg/L	CAPA-12-1204
R-55 S2	994.4	07/14/11	WG	Dissolved Oxygen	5.9	mg/L	CAPA-11-14737
R-55 S2	994.4	07/14/11	WG	Dissolved Oxygen	6.32	mg/L	CAPA-11-14739
R-55 S2	994.4	07/14/11	WG	Dissolved Oxygen	6.45	mg/L	CAPA-11-23024
R-55 S2	994.4	04/18/13	WG	Oxidation-Reduction Potential	55.8	mV	CAMO-13-29630
R-55 S2	994.4	10/24/12	WG	Oxidation-Reduction Potential	83.3	mV	CAMO-12-23863
R-55 S2	994.4	04/26/12	WG	Oxidation-Reduction Potential	130.3	mV	CAPA-12-13264
R-55 S2	994.4	10/31/11	WG	Oxidation-Reduction Potential	93.8	mV	CAPA-12-1204

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-55 S2	994.4	07/14/11	WG	Oxidation-Reduction Potential	50.2	mV	CAPA-11-14737
R-55 S2	994.4	07/14/11	WG	Oxidation-Reduction Potential	69.9	mV	CAPA-11-14739
R-55 S2	994.4	07/14/11	WG	Oxidation-Reduction Potential	96.8	mV	CAPA-11-23024
R-55 S2	994.4	04/18/13	WG	pH	8.49	SU	CAMO-13-29630
R-55 S2	994.4	10/24/12	WG	pH	8.48	SU	CAMO-12-23863
R-55 S2	994.4	04/26/12	WG	pH	8.55	SU	CAPA-12-13264
R-55 S2	994.4	10/31/11	WG	pH	8.53	SU	CAPA-12-1204
R-55 S2	994.4	07/14/11	WG	pH	8.3	SU	CAPA-11-14737
R-55 S2	994.4	07/14/11	WG	pH	8.17	SU	CAPA-11-14739
R-55 S2	994.4	07/14/11	WG	pH	8.13	SU	CAPA-11-23024
R-55 S2	994.4	04/18/13	WG	Specific Conductance	175	µS/cm	CAMO-13-29630
R-55 S2	994.4	10/24/12	WG	Specific Conductance	175	µS/cm	CAMO-12-23863
R-55 S2	994.4	04/26/12	WG	Specific Conductance	178	µS/cm	CAPA-12-13264
R-55 S2	994.4	10/31/11	WG	Specific Conductance	174	µS/cm	CAPA-12-1204
R-55 S2	994.4	07/14/11	WG	Specific Conductance	182	µS/cm	CAPA-11-14737
R-55 S2	994.4	07/14/11	WG	Specific Conductance	181	µS/cm	CAPA-11-14739
R-55 S2	994.4	07/14/11	WG	Specific Conductance	181	µS/cm	CAPA-11-23024
R-55 S2	994.4	04/18/13	WG	Temperature	21.12	deg C	CAMO-13-29630
R-55 S2	994.4	10/24/12	WG	Temperature	22.52	deg C	CAMO-12-23863
R-55 S2	994.4	04/26/12	WG	Temperature	22.94	deg C	CAPA-12-13264
R-55 S2	994.4	10/31/11	WG	Temperature	21.98	deg C	CAPA-12-1204
R-55 S2	994.4	07/14/11	WG	Temperature	22.23	deg C	CAPA-11-14737
R-55 S2	994.4	07/14/11	WG	Temperature	22.54	deg C	CAPA-11-14739
R-55 S2	994.4	07/14/11	WG	Temperature	22.6	deg C	CAPA-11-23024
R-55 S2	994.4	04/18/13	WG	Turbidity	0	NTU	CAMO-13-29630
R-55 S2	994.4	10/24/12	WG	Turbidity	0.35	NTU	CAMO-12-23863
R-55 S2	994.4	04/26/12	WG	Turbidity	0.33	NTU	CAPA-12-13264
R-55 S2	994.4	10/31/11	WG	Turbidity	0.45	NTU	CAPA-12-1204

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-55 S2	994.4	07/14/11	WG	Turbidity	0.43	NTU	CAPA-11-14737
R-55 S2	994.4	07/14/11	WG	Turbidity	0.33	NTU	CAPA-11-14739
R-55 S2	994.4	07/14/11	WG	Turbidity	0.33	NTU	CAPA-11-23024
R-55i	510	04/18/13	WG	Dissolved Oxygen	2.85	mg/L	CAMO-13-29631
R-55i	510	10/25/12	WG	Dissolved Oxygen	2.59	mg/L	CAMO-12-23864
R-55i	510	04/30/12	WG	Dissolved Oxygen	5.11	mg/L	CAPA-12-13265
R-55i	510	04/30/12	WG	Dissolved Oxygen	5.11	mg/L	CAPA-12-13348
R-55i	510	11/01/11	WG	Dissolved Oxygen	5.32	mg/L	CAPA-12-1224
R-55i	510	11/01/11	WG	Dissolved Oxygen	0.66	mg/L	CAPA-12-1284
R-55i	510	11/01/11	WG	Dissolved Oxygen	2.58	mg/L	CAPA-12-1286
R-55i	510	11/01/11	WG	Dissolved Oxygen	3.18	mg/L	CAPA-12-1288
R-55i	510	11/01/11	WG	Dissolved Oxygen	4.42	mg/L	CAPA-12-1290
R-55i	510	07/18/11	WG	Dissolved Oxygen	3.75	mg/L	CAPA-11-14771
R-55i	510	07/18/11	WG	Dissolved Oxygen	3.75	mg/L	CAPA-11-22978
R-55i	510	07/18/11	WG	Dissolved Oxygen	0.68	mg/L	CAPA-11-14767
R-55i	510	07/18/11	WG	Dissolved Oxygen	2.98	mg/L	CAPA-11-14769
R-55i	510	04/18/13	WG	Oxidation-Reduction Potential	-81.7	mV	CAMO-13-29631
R-55i	510	10/25/12	WG	Oxidation-Reduction Potential	73.4	mV	CAMO-12-23864
R-55i	510	04/30/12	WG	Oxidation-Reduction Potential	-39.8	mV	CAPA-12-13265
R-55i	510	04/30/12	WG	Oxidation-Reduction Potential	-39.8	mV	CAPA-12-13348
R-55i	510	11/01/11	WG	Oxidation-Reduction Potential	-73.7	mV	CAPA-12-1224
R-55i	510	11/01/11	WG	Oxidation-Reduction Potential	-101.7	mV	CAPA-12-1284
R-55i	510	11/01/11	WG	Oxidation-Reduction Potential	-69.2	mV	CAPA-12-1286
R-55i	510	11/01/11	WG	Oxidation-Reduction Potential	-101.4	mV	CAPA-12-1288
R-55i	510	11/01/11	WG	Oxidation-Reduction Potential	-88.6	mV	CAPA-12-1290
R-55i	510	07/18/11	WG	Oxidation-Reduction Potential	-81	mV	CAPA-11-14771
R-55i	510	07/18/11	WG	Oxidation-Reduction Potential	-81	mV	CAPA-11-22978
R-55i	510	07/18/11	WG	Oxidation-Reduction Potential	-101.1	mV	CAPA-11-14767

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-55i	510	07/18/11	WG	Oxidation-Reduction Potential	-78.4	mV	CAPA-11-14769
R-55i	510	04/18/13	WG	pH	7.16	SU	CAMO-13-29631
R-55i	510	10/25/12	WG	pH	7.28	SU	CAMO-12-23864
R-55i	510	04/30/12	WG	pH	7.39	SU	CAPA-12-13265
R-55i	510	04/30/12	WG	pH	7.39	SU	CAPA-12-13348
R-55i	510	11/01/11	WG	pH	7.37	SU	CAPA-12-1224
R-55i	510	11/01/11	WG	pH	6.88	SU	CAPA-12-1284
R-55i	510	11/01/11	WG	pH	7.07	SU	CAPA-12-1286
R-55i	510	11/01/11	WG	pH	7.15	SU	CAPA-12-1288
R-55i	510	11/01/11	WG	pH	7.28	SU	CAPA-12-1290
R-55i	510	07/18/11	WG	pH	7.37	SU	CAPA-11-14771
R-55i	510	07/18/11	WG	pH	7.37	SU	CAPA-11-22978
R-55i	510	07/18/11	WG	pH	6.96	SU	CAPA-11-14767
R-55i	510	07/18/11	WG	pH	7.24	SU	CAPA-11-14769
R-55i	510	04/18/13	WG	Specific Conductance	318	µS/cm	CAMO-13-29631
R-55i	510	10/25/12	WG	Specific Conductance	319	µS/cm	CAMO-12-23864
R-55i	510	04/30/12	WG	Specific Conductance	313	µS/cm	CAPA-12-13265
R-55i	510	04/30/12	WG	Specific Conductance	313	µS/cm	CAPA-12-13348
R-55i	510	11/01/11	WG	Specific Conductance	307	µS/cm	CAPA-12-1224
R-55i	510	11/01/11	WG	Specific Conductance	333	µS/cm	CAPA-12-1284
R-55i	510	11/01/11	WG	Specific Conductance	322	µS/cm	CAPA-12-1286
R-55i	510	11/01/11	WG	Specific Conductance	320	µS/cm	CAPA-12-1288
R-55i	510	11/01/11	WG	Specific Conductance	311	µS/cm	CAPA-12-1290
R-55i	510	07/18/11	WG	Specific Conductance	317	µS/cm	CAPA-11-14771
R-55i	510	07/18/11	WG	Specific Conductance	317	µS/cm	CAPA-11-22978
R-55i	510	07/18/11	WG	Specific Conductance	333	µS/cm	CAPA-11-14767
R-55i	510	07/18/11	WG	Specific Conductance	321	µS/cm	CAPA-11-14769
R-55i	510	04/18/13	WG	Temperature	16.95	deg C	CAMO-13-29631

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-55i	510	10/25/12	WG	Temperature	16.97	deg C	CAMO-12-23864
R-55i	510	04/30/12	WG	Temperature	18.91	deg C	CAPA-12-13265
R-55i	510	04/30/12	WG	Temperature	18.91	deg C	CAPA-12-13348
R-55i	510	11/01/11	WG	Temperature	17.69	deg C	CAPA-12-1224
R-55i	510	11/01/11	WG	Temperature	17.08	deg C	CAPA-12-1284
R-55i	510	11/01/11	WG	Temperature	17.38	deg C	CAPA-12-1286
R-55i	510	11/01/11	WG	Temperature	17.47	deg C	CAPA-12-1288
R-55i	510	11/01/11	WG	Temperature	17.61	deg C	CAPA-12-1290
R-55i	510	07/18/11	WG	Temperature	18.75	deg C	CAPA-11-14771
R-55i	510	07/18/11	WG	Temperature	18.75	deg C	CAPA-11-22978
R-55i	510	07/18/11	WG	Temperature	18.14	deg C	CAPA-11-14767
R-55i	510	07/18/11	WG	Temperature	18.89	deg C	CAPA-11-14769
R-55i	510	04/18/13	WG	Turbidity	0.5	NTU	CAMO-13-29631
R-55i	510	10/25/12	WG	Turbidity	2.57	NTU	CAMO-12-23864
R-55i	510	04/30/12	WG	Turbidity	0.48	NTU	CAPA-12-13265
R-55i	510	04/30/12	WG	Turbidity	0.48	NTU	CAPA-12-13348
R-55i	510	11/01/11	WG	Turbidity	1.2	NTU	CAPA-12-1224
R-55i	510	11/01/11	WG	Turbidity	1.82	NTU	CAPA-12-1284
R-55i	510	11/01/11	WG	Turbidity	3.5	NTU	CAPA-12-1286
R-55i	510	11/01/11	WG	Turbidity	2.73	NTU	CAPA-12-1288
R-55i	510	11/01/11	WG	Turbidity	2.03	NTU	CAPA-12-1290
R-55i	510	07/18/11	WG	Turbidity	1.43	NTU	CAPA-11-14771
R-55i	510	07/18/11	WG	Turbidity	1.43	NTU	CAPA-11-22978
R-55i	510	07/18/11	WG	Turbidity	2.81	NTU	CAPA-11-14767
R-55i	510	07/18/11	WG	Turbidity	2.48	NTU	CAPA-11-14769
R-56 S1	945	04/24/13	WG	Dissolved Oxygen	6.33	mg/L	CAPA-13-29582
R-56 S1	945	01/30/13	WG	Dissolved Oxygen	6.21	mg/L	CAPA-13-26663
R-56 S1	945	10/18/12	WG	Dissolved Oxygen	6.05	mg/L	CAPA-12-23817

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-56 S1	945	04/25/12	WG	Dissolved Oxygen	5.57	mg/L	CAPA-12-13247
R-56 S1	945	11/02/11	WG	Dissolved Oxygen	5.59	mg/L	CAPA-12-1207
R-56 S1	945	04/24/13	WG	Oxidation-Reduction Potential	137.3	mV	CAPA-13-29582
R-56 S1	945	01/30/13	WG	Oxidation-Reduction Potential	17.3	mV	CAPA-13-26663
R-56 S1	945	10/18/12	WG	Oxidation-Reduction Potential	68.6	mV	CAPA-12-23817
R-56 S1	945	04/25/12	WG	Oxidation-Reduction Potential	91.8	mV	CAPA-12-13247
R-56 S1	945	11/02/11	WG	Oxidation-Reduction Potential	102.9	mV	CAPA-12-1207
R-56 S1	945	04/24/13	WG	pH	7.97	SU	CAPA-13-29582
R-56 S1	945	01/30/13	WG	pH	8.09	SU	CAPA-13-26663
R-56 S1	945	10/18/12	WG	pH	8.11	SU	CAPA-12-23817
R-56 S1	945	04/25/12	WG	pH	8.11	SU	CAPA-12-13247
R-56 S1	945	11/02/11	WG	pH	8.05	SU	CAPA-12-1207
R-56 S1	945	04/24/13	WG	Specific Conductance	147	µS/cm	CAPA-13-29582
R-56 S1	945	01/30/13	WG	Specific Conductance	150	µS/cm	CAPA-13-26663
R-56 S1	945	10/18/12	WG	Specific Conductance	147	µS/cm	CAPA-12-23817
R-56 S1	945	04/25/12	WG	Specific Conductance	151	µS/cm	CAPA-12-13247
R-56 S1	945	11/02/11	WG	Specific Conductance	149	µS/cm	CAPA-12-1207
R-56 S1	945	04/24/13	WG	Temperature	21	deg C	CAPA-13-29582
R-56 S1	945	01/30/13	WG	Temperature	19.03	deg C	CAPA-13-26663
R-56 S1	945	10/18/12	WG	Temperature	20.81	deg C	CAPA-12-23817
R-56 S1	945	04/25/12	WG	Temperature	23.65	deg C	CAPA-12-13247
R-56 S1	945	11/02/11	WG	Temperature	19.46	deg C	CAPA-12-1207
R-56 S1	945	04/24/13	WG	Turbidity	0	NTU	CAPA-13-29582
R-56 S1	945	01/30/13	WG	Turbidity	0.74	NTU	CAPA-13-26663
R-56 S1	945	10/18/12	WG	Turbidity	0.29	NTU	CAPA-12-23817
R-56 S1	945	04/25/12	WG	Turbidity	0.8	NTU	CAPA-12-13247
R-56 S1	945	11/02/11	WG	Turbidity	0.37	NTU	CAPA-12-1207
R-56 S2	1046.6	04/24/13	WG	Dissolved Oxygen	5.54	mg/L	CAPA-13-29583

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-56 S2	1046.6	10/18/12	WG	Dissolved Oxygen	5.27	mg/L	CAPA-12-23818
R-56 S2	1046.6	04/25/12	WG	Dissolved Oxygen	5.39	mg/L	CAPA-12-13248
R-56 S2	1046.6	11/02/11	WG	Dissolved Oxygen	5.03	mg/L	CAPA-12-1213
R-56 S2	1046.6	07/20/11	WG	Dissolved Oxygen	4.05	mg/L	CAPA-11-14750
R-56 S2	1046.6	07/20/11	WG	Dissolved Oxygen	4.87	mg/L	CAPA-11-14752
R-56 S2	1046.6	07/20/11	WG	Dissolved Oxygen	4.9	mg/L	CAPA-11-23032
R-56 S2	1046.6	07/20/11	WG	Dissolved Oxygen	3.51	mg/L	CAPA-11-14748
R-56 S2	1046.6	04/24/13	WG	Oxidation-Reduction Potential	174.1	mV	CAPA-13-29583
R-56 S2	1046.6	10/18/12	WG	Oxidation-Reduction Potential	55.5	mV	CAPA-12-23818
R-56 S2	1046.6	04/25/12	WG	Oxidation-Reduction Potential	83.8	mV	CAPA-12-13248
R-56 S2	1046.6	11/02/11	WG	Oxidation-Reduction Potential	83.5	mV	CAPA-12-1213
R-56 S2	1046.6	07/20/11	WG	Oxidation-Reduction Potential	83.9	mV	CAPA-11-14750
R-56 S2	1046.6	07/20/11	WG	Oxidation-Reduction Potential	113.7	mV	CAPA-11-14752
R-56 S2	1046.6	07/20/11	WG	Oxidation-Reduction Potential	117.9	mV	CAPA-11-23032
R-56 S2	1046.6	07/20/11	WG	Oxidation-Reduction Potential	35.2	mV	CAPA-11-14748
R-56 S2	1046.6	04/24/13	WG	pH	8.31	SU	CAPA-13-29583
R-56 S2	1046.6	10/18/12	WG	pH	8.36	SU	CAPA-12-23818
R-56 S2	1046.6	04/25/12	WG	pH	8.47	SU	CAPA-12-13248
R-56 S2	1046.6	11/02/11	WG	pH	8.38	SU	CAPA-12-1213
R-56 S2	1046.6	07/20/11	WG	pH	8.36	SU	CAPA-11-14750
R-56 S2	1046.6	07/20/11	WG	pH	8.2	SU	CAPA-11-14752
R-56 S2	1046.6	07/20/11	WG	pH	8.18	SU	CAPA-11-23032
R-56 S2	1046.6	07/20/11	WG	pH	8.51	SU	CAPA-11-14748
R-56 S2	1046.6	04/24/13	WG	Specific Conductance	130	µS/cm	CAPA-13-29583
R-56 S2	1046.6	10/18/12	WG	Specific Conductance	131	µS/cm	CAPA-12-23818
R-56 S2	1046.6	04/25/12	WG	Specific Conductance	134	µS/cm	CAPA-12-13248
R-56 S2	1046.6	11/02/11	WG	Specific Conductance	135	µS/cm	CAPA-12-1213
R-56 S2	1046.6	07/20/11	WG	Specific Conductance	21.66	µS/cm	CAPA-11-14750

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-56 S2	1046.6	07/20/11	WG	Specific Conductance	139	µS/cm	CAPA-11-14752
R-56 S2	1046.6	07/20/11	WG	Specific Conductance	135	µS/cm	CAPA-11-23032
R-56 S2	1046.6	07/20/11	WG	Specific Conductance	143	µS/cm	CAPA-11-14748
R-56 S2	1046.6	04/24/13	WG	Temperature	21.2	deg C	CAPA-13-29583
R-56 S2	1046.6	10/18/12	WG	Temperature	20.79	deg C	CAPA-12-23818
R-56 S2	1046.6	04/25/12	WG	Temperature	21.6	deg C	CAPA-12-13248
R-56 S2	1046.6	11/02/11	WG	Temperature	20.7	deg C	CAPA-12-1213
R-56 S2	1046.6	07/20/11	WG	Temperature	21.65	deg C	CAPA-11-14750
R-56 S2	1046.6	07/20/11	WG	Temperature	21.62	deg C	CAPA-11-14752
R-56 S2	1046.6	07/20/11	WG	Temperature	21.63	deg C	CAPA-11-23032
R-56 S2	1046.6	07/20/11	WG	Temperature	20.9	deg C	CAPA-11-14748
R-56 S2	1046.6	04/24/13	WG	Turbidity	0	NTU	CAPA-13-29583
R-56 S2	1046.6	10/18/12	WG	Turbidity	0.59	NTU	CAPA-12-23818
R-56 S2	1046.6	04/25/12	WG	Turbidity	1.02	NTU	CAPA-12-13248
R-56 S2	1046.6	11/02/11	WG	Turbidity	0.63	NTU	CAPA-12-1213
R-56 S2	1046.6	07/20/11	WG	Turbidity	0.71	NTU	CAPA-11-14750
R-56 S2	1046.6	07/20/11	WG	Turbidity	0.64	NTU	CAPA-11-14752
R-56 S2	1046.6	07/20/11	WG	Turbidity	0.5	NTU	CAPA-11-23032
R-56 S2	1046.6	07/20/11	WG	Turbidity	0.82	NTU	CAPA-11-14748
R-57 S1	910	04/10/13	WG	Dissolved Oxygen	5.01	mg/L	CAPA-13-29584
R-57 S1	910	01/29/13	WG	Dissolved Oxygen	4.95	mg/L	CAPA-13-26664
R-57 S1	910	10/10/12	WG	Dissolved Oxygen	4.83	mg/L	CAPA-12-23819
R-57 S1	910	04/23/12	WG	Dissolved Oxygen	4.97	mg/L	CAPA-12-13249
R-57 S1	910	10/21/11	WG	Dissolved Oxygen	4.7	mg/L	CAPA-12-1215
R-57 S1	910	04/10/13	WG	Oxidation-Reduction Potential	46.6	mV	CAPA-13-29584
R-57 S1	910	01/29/13	WG	Oxidation-Reduction Potential	68.4	mV	CAPA-13-26664
R-57 S1	910	10/10/12	WG	Oxidation-Reduction Potential	54	mV	CAPA-12-23819
R-57 S1	910	04/23/12	WG	Oxidation-Reduction Potential	66.2	mV	CAPA-12-13249

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-57 S1	910	10/21/11	WG	Oxidation-Reduction Potential	70.9	mV	CAPA-12-1215
R-57 S1	910	04/10/13	WG	pH	7.83	SU	CAPA-13-29584
R-57 S1	910	01/29/13	WG	pH	7.9	SU	CAPA-13-26664
R-57 S1	910	10/10/12	WG	pH	7.89	SU	CAPA-12-23819
R-57 S1	910	04/23/12	WG	pH	7.74	SU	CAPA-12-13249
R-57 S1	910	10/21/11	WG	pH	7.89	SU	CAPA-12-1215
R-57 S1	910	04/10/13	WG	Specific Conductance	145	µS/cm	CAPA-13-29584
R-57 S1	910	01/29/13	WG	Specific Conductance	143	µS/cm	CAPA-13-26664
R-57 S1	910	10/10/12	WG	Specific Conductance	138	µS/cm	CAPA-12-23819
R-57 S1	910	04/23/12	WG	Specific Conductance	141	µS/cm	CAPA-12-13249
R-57 S1	910	10/21/11	WG	Specific Conductance	131	µS/cm	CAPA-12-1215
R-57 S1	910	04/10/13	WG	Temperature	21.99	deg C	CAPA-13-29584
R-57 S1	910	01/29/13	WG	Temperature	20.95	deg C	CAPA-13-26664
R-57 S1	910	10/10/12	WG	Temperature	22.42	deg C	CAPA-12-23819
R-57 S1	910	04/23/12	WG	Temperature	23.14	deg C	CAPA-12-13249
R-57 S1	910	10/21/11	WG	Temperature	22.54	deg C	CAPA-12-1215
R-57 S1	910	04/10/13	WG	Turbidity	0.5	NTU	CAPA-13-29584
R-57 S1	910	01/29/13	WG	Turbidity	0.26	NTU	CAPA-13-26664
R-57 S1	910	10/10/12	WG	Turbidity	0.54	NTU	CAPA-12-23819
R-57 S1	910	04/23/12	WG	Turbidity	0.35	NTU	CAPA-12-13249
R-57 S1	910	10/21/11	WG	Turbidity	0.35	NTU	CAPA-12-1215
R-57 S2	971.5	04/10/13	WG	Dissolved Oxygen	5.75	mg/L	CAPA-13-29585
R-57 S2	971.5	10/10/12	WG	Dissolved Oxygen	5.06	mg/L	CAPA-12-23820
R-57 S2	971.5	04/23/12	WG	Dissolved Oxygen	6	mg/L	CAPA-12-13250
R-57 S2	971.5	10/21/11	WG	Dissolved Oxygen	5.82	mg/L	CAPA-12-1218
R-57 S2	971.5	07/13/11	WG	Dissolved Oxygen	5.68	mg/L	CAPA-11-23039
R-57 S2	971.5	07/13/11	WG	Dissolved Oxygen	5.44	mg/L	CAPA-11-14762
R-57 S2	971.5	07/13/11	WG	Dissolved Oxygen	4.62	mg/L	CAPA-11-14760

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-57 S2	971.5	07/13/11	WG	Dissolved Oxygen	5.68	mg/L	CAPA-11-14765
R-57 S2	971.5	04/10/13	WG	Oxidation-Reduction Potential	47.7	mV	CAPA-13-29585
R-57 S2	971.5	10/10/12	WG	Oxidation-Reduction Potential	49.8	mV	CAPA-12-23820
R-57 S2	971.5	04/23/12	WG	Oxidation-Reduction Potential	80.9	mV	CAPA-12-13250
R-57 S2	971.5	10/21/11	WG	Oxidation-Reduction Potential	85.1	mV	CAPA-12-1218
R-57 S2	971.5	07/13/11	WG	Oxidation-Reduction Potential	61	mV	CAPA-11-23039
R-57 S2	971.5	07/13/11	WG	Oxidation-Reduction Potential	48.1	mV	CAPA-11-14762
R-57 S2	971.5	07/13/11	WG	Oxidation-Reduction Potential	34.8	mV	CAPA-11-14760
R-57 S2	971.5	07/13/11	WG	Oxidation-Reduction Potential	61	mV	CAPA-11-14765
R-57 S2	971.5	04/10/13	WG	pH	7.75	SU	CAPA-13-29585
R-57 S2	971.5	10/10/12	WG	pH	7.73	SU	CAPA-12-23820
R-57 S2	971.5	04/23/12	WG	pH	7.59	SU	CAPA-12-13250
R-57 S2	971.5	10/21/11	WG	pH	7.66	SU	CAPA-12-1218
R-57 S2	971.5	07/13/11	WG	pH	7.51	SU	CAPA-11-23039
R-57 S2	971.5	07/13/11	WG	pH	7.46	SU	CAPA-11-14762
R-57 S2	971.5	07/13/11	WG	pH	7.36	SU	CAPA-11-14760
R-57 S2	971.5	07/13/11	WG	pH	7.51	SU	CAPA-11-14765
R-57 S2	971.5	04/10/13	WG	Specific Conductance	138	µS/cm	CAPA-13-29585
R-57 S2	971.5	10/10/12	WG	Specific Conductance	132	µS/cm	CAPA-12-23820
R-57 S2	971.5	04/23/12	WG	Specific Conductance	134	µS/cm	CAPA-12-13250
R-57 S2	971.5	10/21/11	WG	Specific Conductance	128	µS/cm	CAPA-12-1218
R-57 S2	971.5	07/13/11	WG	Specific Conductance	121	µS/cm	CAPA-11-23039
R-57 S2	971.5	07/13/11	WG	Specific Conductance	121	µS/cm	CAPA-11-14762
R-57 S2	971.5	07/13/11	WG	Specific Conductance	136	µS/cm	CAPA-11-14760
R-57 S2	971.5	07/13/11	WG	Specific Conductance	121	µS/cm	CAPA-11-14765
R-57 S2	971.5	04/10/13	WG	Temperature	22.12	deg C	CAPA-13-29585
R-57 S2	971.5	10/10/12	WG	Temperature	22.11	deg C	CAPA-12-23820
R-57 S2	971.5	04/23/12	WG	Temperature	23.09	deg C	CAPA-12-13250

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-57 S2	971.5	10/21/11	WG	Temperature	22.48	deg C	CAPA-12-1218
R-57 S2	971.5	07/13/11	WG	Temperature	23.21	deg C	CAPA-11-23039
R-57 S2	971.5	07/13/11	WG	Temperature	23.16	deg C	CAPA-11-14762
R-57 S2	971.5	07/13/11	WG	Temperature	23.01	deg C	CAPA-11-14760
R-57 S2	971.5	07/13/11	WG	Temperature	23.21	deg C	CAPA-11-14765
R-57 S2	971.5	04/10/13	WG	Turbidity	2.2	NTU	CAPA-13-29585
R-57 S2	971.5	10/10/12	WG	Turbidity	0.81	NTU	CAPA-12-23820
R-57 S2	971.5	04/23/12	WG	Turbidity	0.74	NTU	CAPA-12-13250
R-57 S2	971.5	10/21/11	WG	Turbidity	0.46	NTU	CAPA-12-1218
R-57 S2	971.5	07/13/11	WG	Turbidity	0.65	NTU	CAPA-11-23039
R-57 S2	971.5	07/13/11	WG	Turbidity	1.87	NTU	CAPA-11-14762
R-57 S2	971.5	07/13/11	WG	Turbidity	1.16	NTU	CAPA-11-14760
R-57 S2	971.5	07/13/11	WG	Turbidity	0.65	NTU	CAPA-11-14765

[a] WG = Groundwater.

[b] SU = Standard unit.

[c] NTU = Nephelometric turbidity unit.

Appendix B

Groundwater-Elevation Measurements
(on CD included with this document)

Appendix C

Analytical Chemistry Results, Including Results from Previous Four Monitoring Events if Available

The following pages provide lists of (1) acronyms, abbreviations, symbols, and various analytical codes; (2) analytical laboratory qualifier codes; and (3) secondary validation flag codes that may be used in Appendix C. Please note that these are comprehensive lists, and this periodic monitoring report may not include all of the terms in the lists.

Acronyms and Abbreviations

Acronym, Abbreviation, or Symbol	Description
Miscellaneous	
%	percent
%D	percent difference
%R	percent recovery
%RSD	percent relative standard deviation
<	Based on qualifiers, the result was a nondetection.
—	none
4,4'-DDD	4,4'-dichlorodiphenyldichloroethane
4,4'-DDT	4,4'-dichlorodiphenyltrichloroethane
BHC	benzene hexachloride
CB	chlorinated biphenyl
CCB	continuing calibration blank
CCV	continuing calibration verification
CLP	Control Laboratory Program
CRDL	contract-required detection limit
CRI	CDRL check standard
DCG	Derived Concentration Guide (DOE)
DDE	dichlorodiphenyldichloroethylene
DNX	dinitroso-RDX (or hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazine)
DOE	Department of Energy (U.S.)
DQO	data quality objective
EPA	Environmental Protection Agency (U.S.)
GC	gas chromatography
GC/MS	gas chromatography/mass spectrometry
GFAA	graphite furnace atomic absorption
GFPC	gas-flow proportional counter
GW	groundwater
HH OO	Human Health—Organism Only (NMWQCC standard)
HMX	1,3,5,7-tetranitro-1,3,5,7-tetrazocine
HPLC	high-pressure liquid chromatography
ICAL	initial calibration
ICPAES	inductively coupled plasma atomic (optical) emission spectroscopy
ICV	initial calibration verification
IDL	instrument detection limit

Acronyms and Abbreviations (continued)

Acronym, Abbreviation, or Symbol	Description
Miscellaneous (continued)	
IS	internal standard
LAL	lower acceptance limit
LANL	Los Alamos National Laboratory
LCS	laboratory control sample
LLEE	low-level electrolytic extraction
LOC	level of chlorination
LSC	liquid scintillation counting
Lvl	level
MCL	maximum contaminant level (EPA)
MDA	minimum detectable activity
MDC	minimum detectable concentration
MDL	method detection limit
MNX	mononitroso-RDX (or hexahydro-1-nitroso-3,5-dinitro-1,3,5-triazine)
MS	matrix spike
MSD	matrix spike duplicate
NM	NMWQCC
NMED	New Mexico Environmental Department
NMWQCC	New Mexico Water Quality Control Commission
OPR	ongoing precision recovery
PCB	polychlorinated biphenyl
PCDD	polychlorinated dibenzo-p-dioxin
PCDF	polychlorinated dibenzofuran
PQL	practical quantitation limit
Prelim	preliminary
QC	quality control
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine
RF	response factor
RL	reporting limit
RPD	relative percent difference
RRF	relative response factor
RRT	relative retention time
RT	retention time
Scr	screening
SDG	sample delivery group
SMO	Sample Management Office
SSC	suspended sediment concentration
SU	standard unit
TCDD	tetrachlorodibenzo-p-dioxin

Acronyms and Abbreviations (continued)

Acronym, Abbreviation, or Symbol	Description
Miscellaneous (continued)	
TCDF	tetrachlorodibenzofuran
TDS	total dissolved solids
TPH-DRO	total petroleum hydrocarbons—diesel range organics
TNX	trinitroso-RDX (or hexahydro-1,3,5-trinitroso-1,3,5-triazine)
TPU	total propagated uncertainty
UAL	upper acceptance limit
Field Matrix Codes	
W	water
WG	groundwater
WM	snowmelt
WP	persistent flow
WS	base flow
WT	storm runoff
Field Prep Codes	
F	filtered
UF	unfiltered
Lab Sample Type Codes	
CS	client sample
DL	dilution
DUP	duplicate
INIT	initial
RE	reanalysis
REDL	reanalysis dilution
REDP	reanalysis duplicate
RI	reissue
TRP	triplicate
Field QC Type Codes	
EQB	equipment rinsate blank
FB	field blank
FD	field duplicate
FR	field rinsate
FS	field split
FTB	field trip blank
FTR	field triplicate
INB	equipment blank taken during installation and not associated with a sampling event
ITB	trip blank taken during installation and not associated with a sampling event
NA	not applicable
PEB	performance evaluation blank

Acronyms and Abbreviations (continued)

Acronym, Abbreviation, or Symbol	Description
Field QC Type Codes (continued)	
PEK	performance evaluation known
REG	regular
RES	resample
SS	special sampling event, data unique
SS-EQB	equipment blank of special sampling event, data unique
SS-FB	field blank of special sampling event, data unique
SS-FD	field duplicate of special sampling event, data unique
SS-FTB	field trip blank of special sampling event, data unique
Analytical Suite Codes	
DIOX/FUR, Diox/Fur	dioxins and furans
DRO	diesel range organics
Geninorg, GENINORG, General Chemistry	general inorganics
GRO	gasoline range organics
HERB	herbicides
HEXP	high explosives
INORGANIC	inorganics
ISOTOPE, Isotope	isotope ratios
LCMS/MS	liquid chromatography mass spectrometry/mass spectrometry
METALS, Metals	metals
PEST/PCB, PESTPCB	pesticides and PCBs
RAD, Rad	radiochemistry
SVOC, SVOA	semivolatile organic compounds
VOC, VOA	volatile organic compounds
Detect Flag and Best Value Flag Codes	
N	no
Y	yes
Lab Codes	
ALTC	Alta Analytical Laboratory, Inc., San Diego, CA
ARSL	American Radiation Services, Inc.
CFA	Cape Fear Analytical, LLC, Wilmington, NC
C-INC	Isotope and Nuclear Chemistry Division (LANL)
COAST	Coastal Science Laboratories, Austin, TX
CST	Chemical Sciences and Technology Division (LANL)
EES6	Hydrology, Geochemistry, and Geology Group (LANL)
ESE	Environmental Sciences & Engineering, Inc., Gainesville, FL
FLD	measurement taken in field
GEL	General Engineering Laboratories, Inc.

Acronyms and Abbreviations (continued)

Acronym, Abbreviation, or Symbol	Description
Lab Codes (continued)	
GELC	General Engineering Laboratories, Inc., Charleston, SC
GEO	Geochron Laboratories, Boston, MA
HENV	Health and Environmental Laboratory (Johnson Controls, Northern New Mexico)
HUFFMAN	Huffman Laboratories, Inc., Golden, CO
KA	KEMRON Environmental Services, Inc., Vienna, VA
LVLI	Lionville Laboratory, Inc., Philadelphia, PA
PARA	Paragon Analytics, Inc., Salt Lake City, UT
PEC	Pacific Ecorisk Laboratories, Fairfield, CA
QESL	Quanterra Environmental Services, St. Louis, MO
QST	QST Environmental, Newberry, FL
RECRAP	RECRA Labnet, Lionville, PA
RFWC	Roy F. Weston, Inc., West Chester, PA
SGSW	Paradigm Analytical Laboratories, Inc., Wilmington, NC
SILENS	Stable Isotope Laboratory, Woods Hole, MA
STL2, STR	Severn Trent Laboratories, Inc., Richland, WA (historical)
STLA	Severn Trent Laboratories, Inc., Los Angeles, CA
STSL	Severn Trent Laboratories, Inc., St. Louis, MO
SwRI	Southwest Research Institute, San Antonio, TX
UAZ	University of Arizona, Tucson
UIL	University of Illinois, Urbana-Champaign
UMTL	University of Miami Tritium Lab

Analytical Laboratory Qualifier Codes

Code	Description
*	(Inorganic)—Duplicate analysis (relative percent difference [RPD]) not within control limits.
B	(Organic) —Analyte was present in the blank and the sample. (Inorganic) —Reported value was obtained from a reading that was less than the contract-required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
BJ	See B code and see J code.
BJP	See B code, see J code, and see P code.
BPX	(B) (Organic)—This analyte was detected in the associated laboratory method blank and the sample. (B) (Inorganic)—The result for this analyte was greater than the IDL but less than the CRDL. (P) (Pesticides/PCBs)—The quantitative results for this analyte between the primary and secondary gas chromatography (GC) columns were greater than 25% difference. (P) (SW-846 EPA Method 8310, High-Pressure Liquid Chromatography, [HPLC] Results)—The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic)—The result for this analyte should be regarded as not detected.
D	The result for this analyte was reported from a dilution.
DJ	See D code and see J code.
DNA	Did not analyze because equipment was broken.
E	(Organic) Analyte exceeded the concentration range. (Inorganic) The serial dilution was exceeded.
E*	See E code and see * code.
EJ	See E code and see J code.
EJ*	See E code, see J code, and see * code.
EJN	(E) (Organic)—The result for this analyte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (inductively coupled plasma atomic [optical] emission spectroscopy [ICPAES])—The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (graphite furnace atomic absorption [GFAA])—The result for this analyte failed one or more Control Laboratory Program (CLP) acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics)—The result for this analyte was greater than the method detection limit (MDL) but less than the practical quantitation limit (PQL). (N) (Organic)—The reported analyte is a tentatively identified compound (TIC). (N) (Inorganic)—The result for this analyte in the matrix spike (MS) sample was outside acceptance criteria.
EN	See E code and see N code.
EN*	(E) (Organic)—The result for this analyte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICPAES)—The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA)—The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic)—The reported analyte is a TIC. (N) (Inorganic)—The result for this analyte in the MS sample was outside acceptance criteria. * (Inorganic)—The result for this analyte in the laboratory replicate analysis was outside acceptance criteria.
H	(Organic/Inorganic)—The required extraction or analysis holding time for this result was exceeded.

Analytical Laboratory Qualifier Codes (continued)

Code	Description
H*	(H) (Organic/Inorganic)—The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic)—The result for this analyte in the laboratory control sample analysis was outside acceptance criteria.
HJ	See H code and see J code.
HJ*	(H) (Organic/Inorganic)—The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics)—The result for this analyte was greater than the MDL but less than the PQL. * (Inorganic)—The result for this analyte in the laboratory replicate analysis was outside acceptance criteria.
INS	(d15N)—The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value cannot be given to a blank because the blank does not have nitrate. This is different from most analytical methods, where a blank is run with the designator “nondetect” or “detected, but below detection limit.”
J	(Inorganic)—The associated numerical value is an estimated quantity. (Organic)—The associated numerical value is an estimated quantity.
J*	See J code and see * code.
JB	See J code and see B code
JN	See J code and see N code.
JN*	See J code, see N code, and see * code.
JP	See J code and see P code.
N	(Inorganic)—Spiked sample recovery was not within control limits.
N*	See N code and see * code.
N*E	See N code, see * code, and see E code.
NE	See N code and see E code.
P	Percent difference between the results on the two columns during the analysis differed by more than 40%.
PJ	See P code and see J code.
U	The material was analyzed for but was not detected above the level of the associated numeric value.
U*	See U code and see * code.
UD	See U code and see D code.
UE	See U code and see E code.
UE*	See U code, see E code, and see * code.
UEN	See U code, see E code, and see N code.
UH	See U code and see H code.

Analytical Laboratory Qualifier Codes (continued)

UH*	(U) (Organic/Inorganic)—The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic)—The required extraction or analysis holding time for this result was exceeded. * (Inorganic)—The result for this analyte in the laboratory replicate analysis was outside acceptance criteria.
UI	(Rad) Gamma spectroscopy result should be regarded as an uncertain identification.
UN	EPA flag (Inorganic)—Compound was analyzed for but was not detected. Spiked sample recovery was not within control limits.
UN*	EPA flag (Inorganic)—See U code, see N code, and see * code.
UUI	(Rad) Gamma spectroscopy result should be regarded as an uncertain identification, and the analytical lab assigned these gamma spectroscopy results as not detected.
X	The analytical laboratory suspects the result is a nondetect despite positive quantification results.

Secondary Validation Flag Codes

Code	Description
A	The contractually required supporting documentation for this datum is absent.
I	The calculated sums are considered incomplete because of the lack of one or more congener results.
J	The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual.
J-	The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual with a potential negative bias.
J+	The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual with a potential positive bias.
JN-	Presumptive evidence of the presence of the material is at an estimated quantity with a suspected negative bias.
JN+	Presumptive evidence of the presence of the material is at an estimated quantity with a suspected positive bias.
N	There is presumptive evidence of the presence of the material.
NJ	(Organic) Analyte has been tentatively identified, and the associated numerical value is estimated based upon a 1:1 response factor to the nearest eluting internal standard.
NQ	No validation qualifier flag is associated with this result, and the analyte is classified as detected.
PM	Manual review of raw data is recommended to determine if the observed noncompliances with quality acceptance criteria adversely impact data use.
R	The reported sample result is classified as rejected because of serious noncompliances regarding quality control (QC) acceptance criteria. The presence or absence of the analyte cannot be verified based on routine validation alone.
U	The analyte is classified as not detected.
UJ	The analyte is classified as not detected, with an expectation that the reported result is more uncertain than usual.

Table C-1 TA-54 Monitoring Group Previously Unreported Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-37 S1	929.3	01/25/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	29.209	4.508	2.013	—	pCi/L	Y	—	NQ	2013-493	CAMO-13-26655	ARSL
R-37 S1	929.3	10/23/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	27.08	4.192	2.108	—	pCi/L	Y	—	J-	2013-218	CAMO-12-23859	ARSL
R-37 S1	929.3	04/25/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	32.673	5.022	2.088	—	pCi/L	Y	—	J-	12-1255	CAPA-12-13260	ARSL
R-37 S1	929.3	10/28/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	34.4	5.29	2.28	—	pCi/L	Y	—	NQ	12-244	CAPA-12-1127	ARSL
R-37 S1	929.3	07/19/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	9.8532	1.6744	2.1574	—	pCi/L	Y	—	NQ	11-2878	CAPA-11-22854	ARSL
R-37 S2	1026	01/24/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	3.42	0.857	2.092	—	pCi/L	Y	—	U	2013-493	CAMO-13-26656	ARSL
R-37 S2	1026	01/24/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.759	0.73	2.19	—	pCi/L	Y	U	U	2013-493	CAMO-13-26652	ARSL
R-37 S2	1026	10/22/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.769	0.708	2.114	—	pCi/L	Y	U	U	2013-218	CAMO-12-23860	ARSL
R-37 S2	1026	04/27/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.156	0.638	2.169	—	pCi/L	Y	U	UJ	12-1259	CAPA-12-13261	ARSL
R-37 S2	1026	10/31/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.45	0.59	2.02	—	pCi/L	Y	U	U	12-244	CAPA-12-1178	ARSL
R-37 S2	1026	07/13/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.449	0.9338	3.1556	—	pCi/L	Y	U	U	11-2878	CAPA-11-22886	ARSL
R-39	859	01/28/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.78	0.662	1.934	—	pCi/L	Y	U	U	2013-492	CAMO-13-26661	ARSL
R-39	859	10/11/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.645	0.708	2.358	—	pCi/L	Y	U	U	2013-74	CAPA-12-23802	ARSL
R-39	859	10/11/12	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.208	0.658	2.225	—	pCi/L	Y	U	U	2013-74	CAPA-12-23763	ARSL
R-39	859	04/25/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.69	0.614	2.011	—	pCi/L	Y	U	UJ	12-1262	CAPA-12-13232	ARSL
R-39	859	10/27/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.63	0.65	2.23	—	pCi/L	Y	U	U	12-244	CAPA-12-1147	ARSL
R-39	859	07/28/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-2.1252	0.7084	2.2218	—	pCi/L	Y	U	U	11-3020	CAPA-11-22896	ARSL
R-41 S2	965.3	01/28/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.994	0.687	1.963	—	pCi/L	Y	—	U	2013-492	CAPA-13-26662	ARSL
R-41 S2	965.3	10/11/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.381	0.655	2.198	—	pCi/L	Y	U	U	2013-74	CAPA-12-23806	ARSL
R-41 S2	965.3	04/24/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.883	0.689	2.238	—	pCi/L	Y	U	U	12-1238	CAPA-12-13236	ARSL
R-41 S2	965.3	10/25/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.25	0.6	2.02	—	pCi/L	Y	U	U	12-171	CAPA-12-1182	ARSL
R-41 S2	965.3	07/15/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.1288	0.7406	2.4794	—	pCi/L	Y	U	U	11-2878	CAPA-11-22904	ARSL
R-55i	510	04/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	7.32275	—	—	—	permil	N	—	NQ	12-1267	CAPA-12-13479	EES6
R-55i	510	04/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	7.13359	—	—	—	permil	N	—	NQ	12-1267	CAPA-12-13478	EES6
R-55i	510	04/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	7.64202	—	—	—	permil	N	—	NQ	12-1267	CAPA-12-13477	EES6
R-55i	510	04/30/12	WG	F	REP	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	7.84869	—	—	—	permil	Y	—	NQ	12-1267	CAPA-12-13479	EES6
R-55i	510	04/30/12	WG	F	REP	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	7.2311	—	—	—	permil	Y	—	NQ	12-1267	CAPA-12-13478	EES6
R-55i	510	04/30/12	WG	F	REP	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	7.66284	—	—	—	permil	Y	—	NQ	12-1267	CAPA-12-13477	EES6
R-55i	510	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	7.01	—	—	—	permil	N	—	NQ	12-238	CAPA-12-1226	EES6
R-55i	510	07/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	7.39647	—	—	—	permil	N	—	NQ	11-2859	CAPA-11-22979	EES6
R-55i	510	05/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	7.62	—	—	—	permil	N	—	NQ	11-2371	CAPA-11-10607	EES6
R-55i	510	03/23/11	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	7.1732	—	—	—	permil	N	—	NQ	11-1746	CAPA-11-4735	EES6
R-55i	510	04/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	-2.81478	—	—	—	permil	N	—	NQ	12-1267	CAPA-12-13477	EES6
R-55i	510	04/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	-3.62293	—	—	—	permil	N	—	NQ	12-1267	CAPA-12-13479	EES6
R-55i	510	04/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	-3.89343	—	—	—	permil	N	—	NQ	12-1267	CAPA-12-13478	EES6
R-55i	510	04/30/12	WG	F	REP	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	-2.17433	—	—	—	permil	Y	—	NQ	12-1267	CAPA-12-13479	EES6
R-55i	510	04/30/12	WG	F	REP	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	-2.52489	—	—	—	permil	Y	—	NQ	12-1267	CAPA-12-13477	EES6
R-55i	510	04/30/12	WG	F	REP	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	-3.40977	—	—	—	permil	Y	—	NQ	12-1267	CAPA-12-13478	EES6
R-55i	510	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	-2.56	—	—	—	permil	N	—	NQ	12-238	CAPA-12-1226	EES6
R-55i	510	07/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	-1.88232	—	—	—	permil	N	—	NQ	11-2859	CAPA-11-22979	EES6
R-55i	510	05/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	-1.82	—	—	—	permil	N	—	NQ	11-2371	CAPA-11-10607	EES6
R-55i	510	03/23/11	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	-1.98028	—	—	—	permil	N	—	NQ	11-1746	CAPA-11-4735	EES6
R-56 S1	945	01/30/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.83	0.74	2.22	—	pCi/L	Y	U	U	2013-512	CAPA-13-26663	ARSL
R-56 S1	945	10/18/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.346	0.626	2.097	—	pCi/L	Y	U	U	2013-217	CAPA-12-23817	ARSL
R-56 S1	945	04/25/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.827	0.645	2.094	—	pCi/L	Y	U	UJ	12-1262	CAPA-12-13247	ARSL
R-56 S1	945	11/02/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.97	0.69	2.24	—	pCi/L	Y	U	U	12-301	CAPA-12-1207	ARSL
R-56 S1	945	07/20/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.4508	0.5796	1.9964	—	pCi/L	Y	U	U	11-2942	CAPA-11-23029	ARSL
R-57 S1	910	01/29/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.407	0.672	2.072	—	pCi/L	Y	U	U	2013-492	CAPA-13-26664	ARSL

Table C-1 TA-54 Monitoring Group Previously Unreported Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-57 S1	910	10/10/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.25	0.676	2.308	—	pCi/L	Y	U	U	2013-61	CAPA-12-23819	ARSL
R-57 S1	910	04/23/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.449	0.72	2.235	—	pCi/L	Y	U	U	12-1239	CAPA-12-13249	ARSL
R-57 S1	910	10/21/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.24	0.63	2.16	—	pCi/L	Y	U	U	12-171	CAPA-12-1215	ARSL
R-57 S1	910	07/13/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.0948	0.6118	2.0286	—	pCi/L	Y	U	U	11-2878	CAPA-11-23035	ARSL

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-20 S1	904.6	04/10/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.36	0.685	2.299	—	pCi/L	Y	U	U	2013-738	CAPA-13-29560	ARSL
R-20 S1	904.6	10/16/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.7	0.729	2.494	—	pCi/L	Y	U	U	2013-118	CAPA-12-23795	ARSL
R-20 S1	904.6	05/03/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.006	0.666	2.263	—	pCi/L	Y	U	UJ	12-1291	CAPA-12-13225	ARSL
R-20 S1	904.6	07/27/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.6744	0.6762	2.254	—	pCi/L	Y	U	U	11-3020	CAPA-11-22877	ARSL
R-20 S1	904.6	04/20/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.2558	0.6762	2.2862	—	pCi/L	Y	U	U	11-2197	CAPA-11-9309	ARSL
R-20 S2	1147.1	04/08/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[cis-1,2-]	156-59-2	Y	0.52	—	—	0.3	µg/L	Y	J	J	2013-702	CAPA-13-29561	GELC
R-20 S2	1147.1	04/08/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[cis-1,2-]	156-59-2	Y	0.34	—	—	0.3	µg/L	Y	J	J	2013-703	CAPA-13-30294	GELC
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[cis-1,2-]	156-59-2	N	1	—	—	0.3	µg/L	Y	U	U	2013-157	CAPA-12-23796	GELC
R-20 S2	1147.1	05/01/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[cis-1,2-]	156-59-2	N	1	—	—	0.3	µg/L	Y	U	U	12-1272	CAPA-12-13226	GELC
R-20 S2	1147.1	10/27/11	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[cis-1,2-]	156-59-2	N	1	—	—	0.3	µg/L	Y	U	U	12-201	CAPA-12-1136	GELC
R-20 S2	1147.1	07/25/11	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[cis-1,2-]	156-59-2	N	1	—	—	0.3	µg/L	Y	U	U	11-2921	CAPA-11-22881	GELC
R-20 S2	1147.1	04/08/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	Y	0.31	—	—	0.3	µg/L	Y	J	J	2013-702	CAPA-13-29561	GELC
R-20 S2	1147.1	04/08/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	N	1	—	—	0.3	µg/L	Y	U	U	2013-703	CAPA-13-30294	GELC
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	N	1	—	—	0.3	µg/L	Y	U	U	2013-157	CAPA-12-23796	GELC
R-20 S2	1147.1	05/01/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	Y	0.59	—	—	0.3	µg/L	Y	J	J	12-1272	CAPA-12-13226	GELC
R-20 S2	1147.1	10/27/11	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	N	1	—	—	0.25	µg/L	Y	U	U	12-201	CAPA-12-1136	GELC
R-20 S2	1147.1	07/25/11	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	N	1	—	—	0.25	µg/L	Y	U	U	11-2921	CAPA-11-22881	GELC
R-20 S2	1147.1	04/08/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.986	0.697	2.248	—	pCi/L	Y	U	U	2013-710	CAPA-13-29561	ARSL
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.569	0.715	2.445	—	pCi/L	Y	U	U	2013-127	CAPA-12-23796	ARSL
R-20 S2	1147.1	05/01/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.618	0.673	2.224	—	pCi/L	Y	U	UJ	12-1271	CAPA-12-13226	ARSL
R-20 S2	1147.1	10/27/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.25	0.67	2.26	—	pCi/L	Y	U	U	12-244	CAPA-12-1136	ARSL
R-20 S2	1147.1	07/25/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.288	0.6762	2.1574	—	pCi/L	Y	U	U	11-2942	CAPA-11-22881	ARSL
R-20 S2	1147.1	04/08/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	Y	1	—	—	0.3	µg/L	Y	J	J	2013-702	CAPA-13-29561	GELC
R-20 S2	1147.1	04/08/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	Y	0.71	—	—	0.3	µg/L	Y	J	J	2013-703	CAPA-13-30294	GELC
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	Y	0.5	—	—	0.3	µg/L	Y	J	J	2013-157	CAPA-12-23796	GELC
R-20 S2	1147.1	05/01/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	Y	0.7	—	—	0.3	µg/L	Y	J	J	12-1272	CAPA-12-13226	GELC
R-20 S2	1147.1	10/27/11	WG	UF	INIT	REG	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	Y	0.68	—	—	0.5	µg/L	Y	J	J	12-201	CAPA-12-1136	GELC
R-20 S2	1147.1	07/25/11	WG	UF	INIT	REG	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	Y	0.63	—	—	0.5	µg/L	Y	J	J	11-2921	CAPA-11-22881	GELC
R-21	888.8	04/22/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.795	0.688	2.252	—	pCi/L	Y	U	U	2013-764	CAMO-13-29625	ARSL
R-21	888.8	10/15/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.02	0.725	2.462	—	pCi/L	Y	U	U	2013-117	CAMO-12-23858	ARSL
R-21	888.8	05/02/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.027	0.673	2.157	—	pCi/L	Y	U	UJ	12-1290	CAPA-12-13259	ARSL
R-21	888.8	11/03/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.8	0.67	2.19	—	pCi/L	Y	U	U	12-301	CAPA-12-1173	ARSL
R-21	888.8	07/21/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.8694	0.644	2.1574	—	pCi/L	Y	U	U	11-2942	CAPA-11-22884	ARSL
R-23	816	04/23/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.644	0.67	2.213	—	pCi/L	Y	U	U	2013-765	CAPA-13-29562	ARSL
R-23	816	10/12/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.717	0.695	2.303	—	pCi/L	Y	U	U	2013-74	CAPA-12-23797	ARSL
R-23	816	04/30/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.242	0.639	2.152	—	pCi/L	Y	U	UJ	12-1260	CAPA-12-13227	ARSL
R-23	816	10/26/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.16	0.65	2.2	—	pCi/L	Y	U	U	12-244	CAPA-12-1139	ARSL
R-23	816	07/22/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.2236	0.7728	2.5116	—	pCi/L	Y	U	U	11-2942	CAPA-11-22870	ARSL
R-23i S2	470.2	04/22/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	16.617	2.669	2.238	—	pCi/L	Y	—	NQ	2013-765	CAPA-13-29564	ARSL
R-23i S2	470.2	10/17/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	16.208	2.613	2.369	—	pCi/L	Y	—	J-	2013-131	CAPA-12-23799	ARSL
R-23i S2	470.2	05/01/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	23.128	3.615	2.246	—	pCi/L	Y	—	J-	12-1271	CAPA-12-13229	ARSL
R-23i S2	470.2	10/20/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	21.48	3.37	2.19	—	pCi/L	Y	—	NQ	12-171	CAPA-12-1119	ARSL
R-23i S2	470.2	05/03/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	19.6098	3.1556	2.8014	—	pCi/L	Y	—	NQ	11-2438	CAPA-11-9574	ARSL
R-23i S3	524	04/23/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	19.009	2.988	1.94	—	pCi/L	Y	—	NQ	2013-765	CAPA-13-29565	ARSL
R-23i S3	524	10/10/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	17.806	2.851	2.428	—	pCi/L	Y	—	J-	2013-74	CAPA-12-23800	ARSL
R-23i S3	524	04/30/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	18.272	2.899	2.186	—	pCi/L	Y	—	J-	12-1260	CAPA-12-13230	ARSL
R-23i S3	524	10/26/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	21.96	3.43	2.05	—	pCi/L	Y	—	NQ	12-244	CAPA-12-1121	ARSL
R-23i S3	524	04/18/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	25.3736	3.9606	2.3506	—	pCi/L	Y	—	NQ	11-2197	CAPA-11-9575	ARSL

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-32 S1	867.5	04/09/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.045	0.61	2.076	—	pCi/L	Y	U	U	2013-710	CAPA-13-29566	ARSL
R-32 S1	867.5	10/19/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.847	0.71	2.098	—	pCi/L	Y	U	U	2013-217	CAPA-12-23801	ARSL
R-32 S1	867.5	04/25/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.694	0.628	2.059	—	pCi/L	Y	U	UJ	12-1262	CAPA-12-13231	ARSL
R-32 S1	867.5	10/20/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.11	0.65	2.22	—	pCi/L	Y	U	U	12-171	CAPA-12-1143	ARSL
R-32 S1	867.5	07/27/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.0626	0.6118	2.093	—	pCi/L	Y	U	U	11-3020	CAPA-11-22695	ARSL
R-37 S1	929.3	04/17/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	29.449	4.548	2.093	—	pCi/L	Y	—	NQ	2013-740	CAMO-13-29626	ARSL
R-37 S1	929.3	04/17/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	30.5	4.713	2.194	—	pCi/L	Y	—	NQ	2013-740	CAMO-13-29614	ARSL
R-37 S1	929.3	01/25/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	29.209	4.508	2.013	—	pCi/L	Y	—	NQ	2013-493	CAMO-13-26655	ARSL
R-37 S1	929.3	10/23/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	27.08	4.192	2.108	—	pCi/L	Y	—	J-	2013-218	CAMO-12-23859	ARSL
R-37 S1	929.3	04/25/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	32.673	5.022	2.088	—	pCi/L	Y	—	J-	12-1255	CAPA-12-13260	ARSL
R-37 S1	929.3	10/28/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	34.4	5.29	2.28	—	pCi/L	Y	—	NQ	12-244	CAPA-12-1127	ARSL
R-37 S2	1026	04/11/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.361	0.667	2.239	—	pCi/L	Y	U	U	2013-737	CAMO-13-29627	ARSL
R-37 S2	1026	01/24/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	3.42	0.857	2.092	—	pCi/L	Y	—	U	2013-493	CAMO-13-26656	ARSL
R-37 S2	1026	01/24/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.759	0.73	2.19	—	pCi/L	Y	U	U	2013-493	CAMO-13-26652	ARSL
R-37 S2	1026	10/22/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.769	0.708	2.114	—	pCi/L	Y	U	U	2013-218	CAMO-12-23860	ARSL
R-37 S2	1026	04/27/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.156	0.638	2.169	—	pCi/L	Y	U	UJ	12-1259	CAPA-12-13261	ARSL
R-37 S2	1026	10/31/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.45	0.59	2.02	—	pCi/L	Y	U	U	12-244	CAPA-12-1178	ARSL
R-38	821.2	04/11/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.018	0.666	2.135	—	pCi/L	Y	U	U	2013-737	CAMO-13-29628	ARSL
R-38	821.2	04/11/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.426	0.696	2.331	—	pCi/L	Y	U	U	2013-737	CAMO-13-29615	ARSL
R-38	821.2	10/09/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.316	0.692	2.323	—	pCi/L	Y	U	U	2013-58	CAMO-12-23861	ARSL
R-38	821.2	10/09/12	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.617	0.655	2.244	—	pCi/L	Y	U	U	2013-58	CAMO-12-23849	ARSL
R-38	821.2	04/24/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.626	0.73	2.231	—	pCi/L	Y	U	U	12-1237	CAPA-12-13262	ARSL
R-38	821.2	10/25/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.22	0.65	2.24	—	pCi/L	Y	U	U	12-171	CAPA-12-1181	ARSL
R-38	821.2	07/26/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.0322	0.6762	2.3506	—	pCi/L	Y	U	U	11-2942	CAPA-11-22889	ARSL
R-38	821.2	07/26/11	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.288	0.644	2.2218	—	pCi/L	Y	U	U	11-2942	CAPA-11-22893	ARSL
R-39	859	04/09/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.765	0.617	2.011	—	pCi/L	Y	U	U	2013-710	CAPA-13-29567	ARSL
R-39	859	01/28/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.78	0.662	1.934	—	pCi/L	Y	U	U	2013-492	CAPA-13-26661	ARSL
R-39	859	10/11/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.645	0.708	2.358	—	pCi/L	Y	U	U	2013-74	CAPA-12-23802	ARSL
R-39	859	10/11/12	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.208	0.658	2.225	—	pCi/L	Y	U	U	2013-74	CAPA-12-23763	ARSL
R-39	859	04/25/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.69	0.614	2.011	—	pCi/L	Y	U	UJ	12-1262	CAPA-12-13232	ARSL
R-39	859	10/27/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.63	0.65	2.23	—	pCi/L	Y	U	U	12-244	CAPA-12-1147	ARSL
R-40 S1	751.59	04/17/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.426	0.663	2.218	—	pCi/L	Y	U	U	2013-739	CAPA-13-29568	ARSL
R-40 S1	751.59	10/12/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.145	0.69	2.341	—	pCi/L	Y	U	U	2013-74	CAPA-12-23803	ARSL
R-40 S1	751.59	04/26/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.03	0.654	2.09	—	pCi/L	Y	U	UJ	12-1256	CAPA-12-13233	ARSL
R-40 S1	751.59	07/11/11	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	-82.4	48	190	—	pCi/L	Y	U	U	11-2793	CAPA-11-22709	GELC
R-40 S1	751.59	05/05/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.6744	0.6762	2.0608	—	pCi/L	Y	U	U	11-2438	CAPA-11-9304	ARSL
R-40 S2	849.27	04/16/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.769	0.65	2.124	—	pCi/L	Y	U	U	2013-738	CAPA-13-29569	ARSL
R-40 S2	849.27	10/12/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-2.152	0.744	2.418	—	pCi/L	Y	U	U	2013-74	CAPA-12-23804	ARSL
R-40 S2	849.27	05/01/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.044	0.674	2.291	—	pCi/L	Y	U	UJ	12-1271	CAPA-12-13234	ARSL
R-40 S2	849.27	10/20/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.03	0.61	2.09	—	pCi/L	Y	U	U	12-171	CAPA-12-1150	ARSL
R-40 S2	849.27	07/08/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.644	0.5152	1.8032	—	pCi/L	Y	U	U	11-2800	CAPA-11-22899	ARSL
R-40 S2	849.27	07/08/11	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.9016	0.7084	2.3828	—	pCi/L	Y	U	U	11-2800	CAPA-11-22901	ARSL
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.76	—	—	0.01	SU	Y	H	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.69	—	—	0.01	SU	Y	H	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.56	—	—	0.01	SU	Y	H	J-	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.66	—	—	0.01	SU	Y	H	J-	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.58	—	—	0.01	SU	Y	H	J-	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.42	—	—	0.01	SU	Y	H	J-	10-2276	CAPA-10-12850	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	122	—	—	0.725	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	120	—	—	0.725	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	110	—	—	0.73	mg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60.2	—	—	0.73	mg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	118	—	—	0.73	mg/L	Y	—	NQ	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	120	—	—	0.73	mg/L	Y	—	NQ	10-2276	CAPA-10-12850	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.194	—	—	0.017	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.189	—	—	0.017	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.103	—	—	0.016	mg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.122	—	—	0.016	mg/L	Y	—	J-	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.189	—	—	0.016	mg/L	Y	—	J	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.167	—	—	0.016	mg/L	Y	—	J-	10-2276	CAPA-10-12850	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.5	—	—	1	µg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	21.8	—	—	1	µg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.7	—	—	1	µg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	26.8	—	—	1	µg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	28	—	—	1	µg/L	Y	—	NQ	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	29.8	—	—	1	µg/L	Y	—	NQ	10-2276	CAPA-10-12850	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	15.8	—	—	15	µg/L	Y	J	J	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	µg/L	Y	U	U	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	µg/L	Y	U	U	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	16.9	—	—	15	µg/L	Y	J	J	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	18.9	—	—	15	µg/L	Y	J	J	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	17.9	—	—	15	µg/L	Y	J	J	10-2276	CAPA-10-12850	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.5	—	—	0.05	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.2	—	—	0.05	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.9	—	—	0.05	mg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.9	—	—	0.05	mg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.3	—	—	0.05	mg/L	Y	—	NQ	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	20.1	—	—	0.05	mg/L	Y	—	NQ	10-2276	CAPA-10-12850	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.67	—	—	0.067	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.36	—	—	0.067	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.29	—	—	0.066	mg/L	Y	—	J-	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.38	—	—	0.066	mg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.48	—	—	0.066	mg/L	Y	—	NQ	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.41	—	—	0.066	mg/L	Y	—	NQ	10-2276	CAPA-10-12850	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.317	—	—	0.033	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.331	—	—	0.033	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.338	—	—	0.033	mg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.223	—	—	0.033	mg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.238	—	—	0.033	mg/L	Y	—	NQ	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.29	—	—	0.033	mg/L	Y	—	NQ	10-2276	CAPA-10-12850	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	84.5	—	—	0.453	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	84	—	—	0.453	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	85.4	—	—	0.45	mg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	81.1	—	—	0.35	mg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	82.4	—	—	0.35	mg/L	Y	—	NQ	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	85.6	—	—	0.35	mg/L	Y	—	NQ	10-2276	CAPA-10-12850	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	725	—	—	30	µg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	626	—	—	30	µg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	560	—	—	30	µg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	1190	—	—	30	µg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	1210	—	—	30	µg/L	Y	—	NQ	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	1420	—	—	30	µg/L	Y	—	J	10-2276	CAPA-10-12850	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.71	—	—	0.11	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.77	—	—	0.11	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.68	—	—	0.11	mg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.26	—	—	0.085	mg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.31	—	—	0.085	mg/L	Y	—	NQ	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.59	—	—	0.085	mg/L	Y	—	NQ	10-2276	CAPA-10-12850	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	282	—	—	2	µg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	245	—	—	2	µg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	217	—	—	2	µg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	340	—	—	2	µg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	366	—	—	2	µg/L	Y	—	NQ	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	398	—	—	2	µg/L	Y	—	NQ	10-2276	CAPA-10-12850	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	13.7	—	—	0.165	µg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	12.1	—	—	0.165	µg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	14.8	—	—	0.17	µg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	18.3	—	—	0.1	µg/L	Y	E	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	16.9	—	—	0.1	µg/L	Y	—	NQ	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	22	—	—	0.1	µg/L	Y	—	NQ	10-2276	CAPA-10-12850	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.633	—	—	0.5	µg/L	Y	J	J	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.66	—	—	0.5	µg/L	Y	J	J	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	1.46	—	—	0.5	µg/L	Y	J	U	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.925	—	—	0.5	µg/L	Y	J	J	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.706	—	—	0.5	µg/L	Y	J	J	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.953	—	—	0.5	µg/L	Y	J	J	10-2276	CAPA-10-12850	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.1	—	—	0.05	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.13	—	—	0.05	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.22	—	—	0.05	mg/L	Y	—	J	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.87	—	—	0.05	mg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.93	—	—	0.05	mg/L	Y	—	NQ	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.03	—	—	0.05	mg/L	Y	—	NQ	10-2276	CAPA-10-12850	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	55.2	—	—	0.053	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	57	—	—	0.053	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	55	—	—	0.053	mg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	49.4	—	—	0.053	mg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	53.5	—	—	0.053	mg/L	Y	—	NQ	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	52.2	—	—	0.053	mg/L	Y	—	NQ	10-2276	CAPA-10-12850	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	19.9	—	—	0.1	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	18.1	—	—	0.1	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	19.1	—	—	0.1	mg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	20.8	—	—	0.1	mg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	21.3	—	—	0.1	mg/L	Y	—	NQ	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	24.1	—	—	0.1	mg/L	Y	—	NQ	10-2276	CAPA-10-12850	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	302	—	—	1	µS/cm	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	240	—	—	1	µS/cm	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	234	—	—	1	µS/cm	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	251	—	—	1	µS/cm	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	241	—	—	1	µS/cm	Y	—	NQ	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	255	—	—	1	µS/cm	Y	—	NQ	10-2276	CAPA-10-12850	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	96.1	—	—	1	µg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	95.1	—	—	1	µg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	103	—	—	1	µg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	95.9	—	—	1	µg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	98.7	—	—	1	µg/L	Y	—	NQ	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	106	—	—	1	µg/L	Y	—	NQ	10-2276	CAPA-10-12850	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.99	—	—	0.133	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.89	—	—	0.133	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.12	—	—	0.1	mg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.18	—	—	0.1	mg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.33	—	—	0.1	mg/L	Y	—	NQ	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.21	—	—	0.1	mg/L	Y	—	NQ	10-2276	CAPA-10-12850	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	170	—	—	3.4	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	159	—	—	3.4	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	167	—	—	3.4	mg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	164	—	—	4.8	mg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	91	—	—	2.4	mg/L	Y	—	NQ	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	189	—	—	2.4	mg/L	Y	—	NQ	10-2276	CAPA-10-12850	GELC
R-40 Si	649.67	04/24/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.14	—	—	0.033	mg/L	Y	—	NQ	2013-774	CAPA-13-30295	GELC
R-40 Si	649.67	04/24/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.165	—	—	0.033	mg/L	Y	—	NQ	2013-774	CAPA-13-30300	GELC
R-40 Si	649.67	11/01/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	UJ	12-251	CAPA-12-1124	GELC
R-40 Si	649.67	10/20/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.252	—	—	0.033	mg/L	Y	—	J	11-222	CAPA-10-26917	GELC
R-40 Si	649.67	07/28/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.195	—	—	0.033	mg/L	Y	—	NQ	10-3891	CAPA-10-24070	GELC
R-40 Si	649.67	03/03/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.054	—	—	0.033	mg/L	Y	J	J	10-2276	CAPA-10-12851	GELC
R-40 Si	649.67	04/24/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	9.32	—	—	0.33	mg/L	Y	—	NQ	2013-774	CAPA-13-30295	GELC
R-40 Si	649.67	04/24/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	8.24	—	—	0.33	mg/L	Y	—	NQ	2013-774	CAPA-13-30300	GELC
R-40 Si	649.67	11/01/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	8.77	—	—	0.33	mg/L	Y	—	NQ	12-251	CAPA-12-1124	GELC
R-40 Si	649.67	10/20/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	13.5	—	—	1.7	mg/L	Y	—	NQ	11-222	CAPA-10-26917	GELC
R-40 Si	649.67	07/28/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	11.9	—	—	0.66	mg/L	Y	—	NQ	10-3891	CAPA-10-24070	GELC
R-40 Si	649.67	03/03/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	14.5	—	—	0.66	mg/L	Y	—	NQ	10-2276	CAPA-10-12851	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0577	—	—	0.017	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0705	—	—	0.017	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0218	—	—	0.015	mg/L	Y	J	J	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.074	—	—	0.015	mg/L	Y	—	U	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.043	—	—	0.015	mg/L	Y	J	J	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.106	—	—	0.015	mg/L	Y	—	J	10-2276	CAPA-10-12850	GELC
R-40 Si	649.67	04/24/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.344	0.686	2.138	—	pCi/L	Y	U	U	2013-769	CAPA-13-29570	ARSL
R-40 Si	649.67	10/22/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.431	0.679	2.094	—	pCi/L	Y	U	U	2013-217	CAPA-12-23805	ARSL
R-40 Si	649.67	05/07/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.248	0.652	2.195	—	pCi/L	Y	U	UJ	12-1289	CAPA-12-13235	ARSL
R-40 Si	649.67	11/01/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.5	0.66	2.21	—	pCi/L	Y	U	U	12-244	CAPA-12-1124	ARSL
R-40 Si	649.67	10/20/10	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.8354	0.7084	2.093	—	pCi/L	N	U	R	11-304	CAPA-10-26917	ARSL
R-40 Si	649.67	10/20/10	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.805	0.6762	2.1896	—	pCi/L	Y	U	U	11-304	CAPA-10-26917	ARSL

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.222	—	—	0.067	µg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.499	—	—	0.067	µg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.809	—	—	0.067	µg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.369	—	—	0.05	µg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	07/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.351	—	—	0.05	µg/L	Y	—	NQ	10-3892	CAPA-10-24071	GELC
R-40 Si	649.67	03/03/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.27	—	—	0.05	µg/L	Y	—	NQ	10-2276	CAPA-10-12850	GELC
R-41 S2	965.3	04/09/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.092	0.642	2.035	—	pCi/L	Y	U	U	2013-710	CAPA-13-29571	ARSL
R-41 S2	965.3	01/28/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.994	0.687	1.963	—	pCi/L	Y	—	U	2013-492	CAPA-13-26662	ARSL
R-41 S2	965.3	10/11/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.381	0.655	2.198	—	pCi/L	Y	U	U	2013-74	CAPA-12-23806	ARSL
R-41 S2	965.3	04/24/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.883	0.689	2.238	—	pCi/L	Y	U	U	12-1238	CAPA-12-13236	ARSL
R-41 S2	965.3	10/25/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.25	0.6	2.02	—	pCi/L	Y	U	U	12-171	CAPA-12-1182	ARSL
R-49 S1	845	04/15/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.356	0.704	2.366	—	pCi/L	Y	U	U	2013-738	CAPA-13-29572	ARSL
R-49 S1	845	10/15/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.562	0.738	2.476	—	pCi/L	Y	U	U	2013-118	CAPA-12-23807	ARSL
R-49 S1	845	04/26/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.444	0.659	2.199	—	pCi/L	Y	U	UJ	12-1256	CAPA-12-13237	ARSL
R-49 S1	845	10/26/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.3	0.65	2.19	—	pCi/L	Y	U	U	12-244	CAPA-12-1153	ARSL
R-49 S1	845	07/08/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.1932	0.7084	2.3828	—	pCi/L	Y	U	U	11-2800	CAPA-11-22697	ARSL
R-49 S2	905.6	04/19/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.401	0.634	2.121	—	pCi/L	Y	U	U	2013-765	CAPA-13-29573	ARSL
R-49 S2	905.6	10/25/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.569	0.825	2.581	—	pCi/L	Y	U	U	2013-253	CAPA-12-23808	ARSL
R-49 S2	905.6	05/01/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.094	0.628	2.127	—	pCi/L	Y	U	UJ	12-1271	CAPA-12-13238	ARSL
R-49 S2	905.6	05/01/12	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.414	0.662	2.209	—	pCi/L	Y	U	UJ	12-1271	CAPA-12-13405	ARSL
R-49 S2	905.6	10/27/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	5.62	1.12	2.18	—	pCi/L	Y	—	NQ	12-244	CAPA-12-1156	ARSL
R-49 S2	905.6	07/25/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.483	0.644	2.2218	—	pCi/L	Y	U	U	11-2942	CAPA-11-22909	ARSL
R-51 S1	914.96	04/25/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.499	0.641	2.135	—	pCi/L	Y	U	U	2013-792	CAPA-13-29574	ARSL
R-51 S1	914.96	04/25/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.715	0.628	2.058	—	pCi/L	Y	U	U	2013-792	CAPA-13-29531	ARSL
R-51 S1	914.96	10/10/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.226	0.698	2.208	—	pCi/L	Y	U	U	2013-61	CAPA-12-23809	ARSL
R-51 S1	914.96	04/23/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.577	0.711	2.172	—	pCi/L	Y	U	U	12-1239	CAPA-12-13239	ARSL
R-51 S1	914.96	10/21/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.06	0.66	2.25	—	pCi/L	Y	U	U	12-171	CAPA-12-1159	ARSL
R-51 S1	914.96	10/21/11	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.58	0.67	2.21	—	pCi/L	Y	U	U	12-171	CAPA-12-1160	ARSL
R-51 S1	914.96	07/28/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.6744	0.7084	2.3828	—	pCi/L	Y	U	U	11-3020	CAPA-11-22912	ARSL
R-51 S1	914.96	07/28/11	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.0948	0.6762	2.3184	—	pCi/L	Y	U	U	11-3020	CAPA-11-22913	ARSL
R-51 S2	1030.96	04/25/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.172	0.617	2.091	—	pCi/L	Y	U	U	2013-792	CAPA-13-29575	ARSL
R-51 S2	1030.96	10/10/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.344	0.683	2.291	—	pCi/L	Y	U	U	2013-61	CAPA-12-23810	ARSL
R-51 S2	1030.96	04/23/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.35	0.658	2.207	—	pCi/L	Y	U	U	12-1239	CAPA-12-13240	ARSL
R-51 S2	1030.96	10/21/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.04	0.65	2.2	—	pCi/L	Y	U	U	12-171	CAPA-12-1164	ARSL
R-51 S2	1030.96	07/28/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.8032	0.7084	2.2862	—	pCi/L	Y	U	U	11-3020	CAPA-11-22928	ARSL
R-52 S1	1035.2	04/11/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.136	0.69	2.34	—	pCi/L	Y	U	U	2013-738	CAPA-13-29576	ARSL
R-52 S1	1035.2	10/16/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.384	0.72	2.431	—	pCi/L	Y	U	U	2013-127	CAPA-12-23811	ARSL
R-52 S1	1035.2	04/27/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.66	0.634	2.083	—	pCi/L	Y	U	UJ	12-1258	CAPA-12-13241	ARSL
R-52 S1	1035.2	11/01/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0	0.65	2.2	—	pCi/L	Y	U	U	12-244	CAPA-12-1187	ARSL
R-52 S1	1035.2	07/18/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.6118	0.805	2.6404	—	pCi/L	Y	U	U	11-2878	CAPA-11-22933	ARSL
R-52 S2	1107	04/11/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.161	0.619	2.095	—	pCi/L	Y	U	U	2013-738	CAPA-13-29577	ARSL
R-52 S2	1107	10/16/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.671	0.661	2.26	—	pCi/L	Y	U	U	2013-127	CAPA-12-23812	ARSL
R-52 S2	1107	04/27/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.195	0.589	1.986	—	pCi/L	Y	U	UJ	12-1258	CAPA-12-13242	ARSL
R-52 S2	1107	11/01/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.74	0.62	2.03	—	pCi/L	Y	U	U	12-244	CAPA-12-1189	ARSL
R-52 S2	1107	07/18/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.3542	0.7084	2.3828	—	pCi/L	Y	U	U	11-2878	CAPA-11-22936	ARSL
R-53 S1	849.2	04/08/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.133	0.714	2.28	—	pCi/L	Y	U	U	2013-710	CAPA-13-29578	ARSL
R-53 S1	849.2	10/11/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.905	0.74	2.44	—	pCi/L	Y	U	U	2013-74	CAPA-12-23813	ARSL
R-53 S1	849.2	04/24/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.485	0.674	2.245	—	pCi/L	Y	U	U	12-1238	CAPA-12-13243	ARSL

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-53 S1	849.2	10/25/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.31	0.59	1.96	—	pCi/L	Y	U	U	12-179	CAPA-12-1192	ARSL
R-53 S1	849.2	07/14/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.3864	0.7084	2.3828	—	pCi/L	Y	U	U	11-2878	CAPA-11-22939	ARSL
R-53 S2	959.7	04/08/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.053	0.633	2.162	—	pCi/L	Y	U	U	2013-710	CAPA-13-29579	ARSL
R-53 S2	959.7	10/11/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.014	0.725	2.342	—	pCi/L	Y	U	U	2013-74	CAPA-12-23814	ARSL
R-53 S2	959.7	04/24/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.239	0.689	2.172	—	pCi/L	Y	U	U	12-1238	CAPA-12-13244	ARSL
R-53 S2	959.7	10/25/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.21	0.64	2.18	—	pCi/L	Y	U	U	12-179	CAPA-12-1196	ARSL
R-53 S2	959.7	10/25/11	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.34	0.62	2.08	—	pCi/L	Y	U	U	12-179	CAPA-12-1197	ARSL
R-53 S2	959.7	07/14/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.8372	0.644	2.1574	—	pCi/L	Y	U	U	11-2878	CAPA-11-22941	ARSL
R-53 S2	959.7	07/14/11	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.6744	0.9016	3.0268	—	pCi/L	Y	U	U	11-2878	CAPA-11-22945	ARSL
R-54 S1	830	04/16/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.516	0.666	2.216	—	pCi/L	Y	U	U	2013-738	CAPA-13-29580	ARSL
R-54 S1	830	10/24/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.932	0.696	2.256	—	pCi/L	Y	U	U	2013-253	CAPA-12-23815	ARSL
R-54 S1	830	05/04/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.124	0.66	2.25	—	pCi/L	Y	U	UJ	12-1292	CAPA-12-13245	ARSL
R-54 S1	830	05/04/12	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.358	0.658	2.202	—	pCi/L	Y	U	UJ	12-1292	CAPA-12-13406	ARSL
R-54 S1	830	11/02/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.43	0.67	2.3	—	pCi/L	Y	U	U	12-301	CAPA-12-1168	ARSL
R-54 S1	830	07/12/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.5134	0.7406	2.5438	—	pCi/L	Y	U	U	11-2800	CAPA-11-22972	ARSL
R-54 S2	915	04/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.44	—	—	0.01	SU	Y	H	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.37	—	—	0.01	SU	Y	H	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.19	—	—	0.01	SU	Y	H	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.12	—	—	0.01	SU	Y	H	J-	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.24	—	—	0.01	SU	Y	H	J-	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.09	—	—	0.01	SU	Y	H	J-	11-2329	CAPA-11-9501	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.6	—	—	0.725	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.6	—	—	0.725	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60.1	—	—	0.725	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58	—	—	0.73	mg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.5	—	—	0.73	mg/L	Y	—	NQ	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60.1	—	—	0.73	mg/L	Y	—	NQ	11-2329	CAPA-11-9501	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.124	—	—	0.017	mg/L	Y	—	J	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0778	—	—	0.017	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0166	—	—	0.016	mg/L	Y	J	J	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	UJ	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-2329	CAPA-11-9501	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	11	—	—	1	µg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	11.1	—	—	1	µg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	11.1	—	—	1	µg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	9.78	—	—	1	µg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	9.64	—	—	1	µg/L	Y	—	NQ	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	9.57	—	—	1	µg/L	Y	—	NQ	11-2329	CAPA-11-9501	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.9	—	—	0.05	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.1	—	—	0.05	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.2	—	—	0.05	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.3	—	—	0.05	mg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.4	—	—	0.05	mg/L	Y	—	NQ	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.9	—	—	0.05	mg/L	Y	—	NQ	11-2329	CAPA-11-9501	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.88	—	—	0.067	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.86	—	—	0.067	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.85	—	—	0.067	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-54 S2	915	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.88	—	—	0.066	mg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.89	—	—	0.066	mg/L	Y	—	NQ	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.98	—	—	0.066	mg/L	Y	—	NQ	11-2329	CAPA-11-9501	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.07	—	—	2	µg/L	Y	J	J	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.11	—	—	2	µg/L	Y	J	J	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.66	—	—	2	µg/L	Y	J	J	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	11-2329	CAPA-11-9501	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.234	—	—	0.033	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.192	—	—	0.033	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.226	—	—	0.033	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.224	—	—	0.033	mg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.226	—	—	0.033	mg/L	Y	—	NQ	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.26	—	—	0.033	mg/L	Y	—	NQ	11-2329	CAPA-11-9501	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	41.2	—	—	0.453	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	41.7	—	—	0.453	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	41.8	—	—	0.453	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	43.7	—	—	0.45	mg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.7	—	—	0.45	mg/L	Y	—	NQ	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	42.8	—	—	0.45	mg/L	Y	—	NQ	11-2329	CAPA-11-9501	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.79	—	—	0.11	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.8	—	—	0.11	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.79	—	—	0.11	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.14	—	—	0.11	mg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.94	—	—	0.11	mg/L	Y	—	NQ	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.16	—	—	0.11	mg/L	Y	—	NQ	11-2329	CAPA-11-9501	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.09	—	—	0.165	µg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.08	—	—	0.165	µg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.3	—	—	0.165	µg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.34	—	—	0.17	µg/L	Y	—	J	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.13	—	—	0.17	µg/L	Y	—	NQ	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.11	—	—	0.17	µg/L	Y	—	NQ	11-2329	CAPA-11-9501	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.368	—	—	0.017	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.361	—	—	0.017	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.371	—	—	0.017	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.383	—	—	0.05	mg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.389	—	—	0.05	mg/L	Y	—	NQ	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.33	—	—	0.01	mg/L	Y	—	NQ	11-2329	CAPA-11-9501	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.73	—	—	0.05	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.71	—	—	0.05	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.74	—	—	0.05	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.87	—	—	0.05	mg/L	Y	—	J	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.65	—	—	0.05	mg/L	Y	—	NQ	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.7	—	—	0.05	mg/L	Y	—	NQ	11-2329	CAPA-11-9501	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	70.2	—	—	0.053	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.6	—	—	0.053	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	73.4	—	—	0.053	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.6	—	—	0.053	mg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.8	—	—	0.053	mg/L	Y	—	NQ	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.7	—	—	0.053	mg/L	Y	—	NQ	11-2329	CAPA-11-9501	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.1	—	—	0.1	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.3	—	—	0.1	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10	—	—	0.1	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.9	—	—	0.1	mg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.36	—	—	0.1	mg/L	Y	—	NQ	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.5	—	—	0.1	mg/L	Y	—	NQ	11-2329	CAPA-11-9501	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	128	—	—	1	µS/cm	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	127	—	—	1	µS/cm	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	126	—	—	1	µS/cm	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	124	—	—	1	µS/cm	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	121	—	—	1	µS/cm	Y	—	NQ	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	129	—	—	1	µS/cm	Y	—	NQ	11-2329	CAPA-11-9501	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	55.5	—	—	1	µg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	56.7	—	—	1	µg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	57.1	—	—	1	µg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	56.5	—	—	1	µg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	51.8	—	—	1	µg/L	Y	—	NQ	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	52	—	—	1	µg/L	Y	—	NQ	11-2329	CAPA-11-9501	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.86	—	—	0.133	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.71	—	—	0.133	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.72	—	—	0.133	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.99	—	—	0.1	mg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.9	—	—	0.1	mg/L	Y	—	NQ	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.13	—	—	0.1	mg/L	Y	—	NQ	11-2329	CAPA-11-9501	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	111	—	—	3.4	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	111	—	—	3.4	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	120	—	—	3.4	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	133	—	—	3.4	mg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	134	—	—	3.4	mg/L	Y	—	NQ	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	146	—	—	2.4	mg/L	Y	—	J	11-2329	CAPA-11-9501	GELC
R-54 S2	915	04/16/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.61	—	—	0.33	mg/L	Y	J	J	2013-731	CAPA-13-29581	GELC
R-54 S2	915	04/16/13	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.586	—	—	0.33	mg/L	Y	J	J	2013-731	CAPA-13-29532	GELC
R-54 S2	915	10/24/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.725	—	—	0.33	mg/L	Y	J	J	2013-223	CAPA-12-23816	GELC
R-54 S2	915	10/31/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	12-229	CAPA-12-1172	GELC
R-54 S2	915	07/12/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.455	—	—	0.33	mg/L	Y	J	J	11-2797	CAPA-11-22976	GELC
R-54 S2	915	05/05/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.437	—	—	0.33	mg/L	Y	J	J	11-2329	CAPA-11-9500	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0255	—	—	0.017	mg/L	Y	J	J	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0284	—	—	0.017	mg/L	Y	J	J	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.026	—	—	0.015	mg/L	Y	J	J	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.123	—	—	0.015	mg/L	Y	—	U	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0383	—	—	0.015	mg/L	Y	J	U	11-2329	CAPA-11-9501	GELC
R-54 S2	915	04/16/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.98	0.754	2.218	—	pCi/L	Y	U	U	2013-738	CAPA-13-29581	ARSL
R-54 S2	915	04/16/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.627	0.679	2.246	—	pCi/L	Y	U	U	2013-738	CAPA-13-29532	ARSL
R-54 S2	915	10/24/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.514	0.757	2.525	—	pCi/L	Y	U	U	2013-253	CAPA-12-23816	ARSL

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-54 S2	915	05/04/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.083	0.636	2.166	—	pCi/L	Y	U	UJ	12-1292	CAPA-12-13246	ARSL
R-54 S2	915	10/31/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.33	0.65	2.2	—	pCi/L	Y	U	U	12-244	CAPA-12-1172	ARSL
R-54 S2	915	07/12/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.1288	0.7406	2.5438	—	pCi/L	Y	U	U	11-2800	CAPA-11-22976	ARSL
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.322	—	—	0.067	µg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.32	—	—	0.067	µg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.361	—	—	0.067	µg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.307	—	—	0.067	µg/L	Y	—	U	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.37	—	—	0.067	µg/L	Y	—	NQ	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.434	—	—	0.067	µg/L	Y	—	NQ	11-2329	CAPA-11-9501	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.24	—	—	1	µg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.64	—	—	1	µg/L	Y	J	J	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.68	—	—	1	µg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.83	—	—	1	µg/L	Y	J	J	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.02	—	—	1	µg/L	Y	—	NQ	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.11	—	—	1	µg/L	Y	—	NQ	11-2329	CAPA-11-9501	GELC
R-55 S1	860	04/18/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.697	0.647	2.125	—	pCi/L	Y	U	U	2013-764	CAMO-13-29629	ARSL
R-55 S1	860	10/24/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.914	0.742	2.419	—	pCi/L	Y	U	U	2013-252	CAMO-12-23862	ARSL
R-55 S1	860	04/26/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.26	0.609	2.048	—	pCi/L	Y	U	UJ	12-1257	CAPA-12-13263	ARSL
R-55 S1	860	04/26/12	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.901	0.718	2.114	—	pCi/L	Y	U	UJ	12-1257	CAPA-12-13349	ARSL
R-55 S1	860	10/28/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.52	0.67	2.22	—	pCi/L	Y	U	U	12-244	CAPA-12-1201	ARSL
R-55 S1	860	07/15/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.4186	0.6762	2.2862	—	pCi/L	Y	U	U	11-2878	CAPA-11-23022	ARSL
R-55 S2	994.4	04/18/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.018	0.67	2.148	—	pCi/L	Y	U	U	2013-764	CAMO-13-29630	ARSL
R-55 S2	994.4	10/24/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	7.023	1.362	2.481	—	pCi/L	Y	—	NQ	2013-252	CAMO-12-23863	ARSL
R-55 S2	994.4	04/26/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.673	0.651	2.141	—	pCi/L	Y	U	UJ	12-1257	CAPA-12-13264	ARSL
R-55 S2	994.4	10/31/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.74	0.66	2.17	—	pCi/L	Y	U	U	12-244	CAPA-12-1204	ARSL
R-55 S2	994.4	07/14/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.5474	0.644	2.1574	—	pCi/L	Y	U	U	11-2878	CAPA-11-23024	ARSL
R-55i	510	04/18/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.976	0.67	2.158	—	pCi/L	Y	U	U	2013-764	CAMO-13-29631	ARSL
R-55i	510	10/25/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	2.37	0.78	2.2	—	pCi/L	Y	—	NQ	2013-252	CAMO-12-23864	ARSL
R-55i	510	04/30/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.622	0.592	1.945	—	pCi/L	Y	U	UJ	12-1261	CAPA-12-13265	ARSL
R-55i	510	04/30/12	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.902	0.675	2.189	—	pCi/L	Y	U	UJ	12-1261	CAPA-12-13348	ARSL
R-55i	510	11/01/11	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	-6.73	35	130	—	pCi/L	Y	U	U	12-243	CAPA-12-1224	GELC
R-55i	510	11/01/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.6	0.65	2.14	—	pCi/L	Y	U	U	12-244	CAPA-12-1224	ARSL
R-55i	510	11/01/11	WG	UF	INIT	FD	RAD	EPA:906.0	Tritium	H-3	N	-13.4	35	130	—	pCi/L	Y	U	U	12-243	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.15	0.67	2.26	—	pCi/L	Y	U	U	12-244	CAPA-12-1225	ARSL
R-55i	510	07/18/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.3524	0.9016	3.0268	—	pCi/L	Y	U	U	11-2878	CAPA-11-22978	ARSL
R-56 S1	945	04/24/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.484	0.698	2.331	—	pCi/L	Y	U	U	2013-769	CAPA-13-29582	ARSL
R-56 S1	945	01/30/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.83	0.74	2.22	—	pCi/L	Y	U	U	2013-512	CAPA-13-26663	ARSL
R-56 S1	945	10/18/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.346	0.626	2.097	—	pCi/L	Y	U	U	2013-217	CAPA-12-23817	ARSL
R-56 S1	945	04/25/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.827	0.645	2.094	—	pCi/L	Y	U	UJ	12-1262	CAPA-12-13247	ARSL
R-56 S1	945	11/02/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.97	0.69	2.24	—	pCi/L	Y	U	U	12-301	CAPA-12-1207	ARSL
R-56 S2	1046.6	04/24/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.345	0.735	2.31	—	pCi/L	Y	U	U	2013-769	CAPA-13-29583	ARSL
R-56 S2	1046.6	10/18/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.025	0.641	2.183	—	pCi/L	Y	U	U	2013-217	CAPA-12-23818	ARSL
R-56 S2	1046.6	10/18/12	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.799	0.661	2.155	—	pCi/L	Y	U	U	2013-217	CAPA-12-23764	ARSL
R-56 S2	1046.6	04/25/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.903	0.631	2.035	—	pCi/L	Y	U	UJ	12-1262	CAPA-12-13248	ARSL
R-56 S2	1046.6	11/02/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.55	0.64	2.11	—	pCi/L	Y	U	U	12-301	CAPA-12-1213	ARSL
R-56 S2	1046.6	11/02/11	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.57	0.6	2.05	—	pCi/L	Y	U	U	12-301	CAPA-12-1212	ARSL
R-56 S2	1046.6	07/20/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.0322	0.644	2.2218	—	pCi/L	Y	U	U	11-2942	CAPA-11-23032	ARSL
R-57 S1	910	04/10/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.493	0.635	2.114	—	pCi/L	Y	U	U	2013-738	CAPA-13-29584	ARSL

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-57 S1	910	01/29/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.407	0.672	2.072	—	pCi/L	Y	U	U	2013-492	CAPA-13-26664	ARSL
R-57 S1	910	10/10/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.25	0.676	2.308	—	pCi/L	Y	U	U	2013-61	CAPA-12-23819	ARSL
R-57 S1	910	04/23/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.449	0.72	2.235	—	pCi/L	Y	U	U	12-1239	CAPA-12-13249	ARSL
R-57 S1	910	10/21/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.24	0.63	2.16	—	pCi/L	Y	U	U	12-171	CAPA-12-1215	ARSL
R-57 S2	971.5	04/10/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	2.564	0.907	2.611	—	pCi/L	Y	U	U	2013-738	CAPA-13-29585	ARSL
R-57 S2	971.5	10/10/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.537	0.693	2.302	—	pCi/L	Y	U	U	2013-61	CAPA-12-23820	ARSL
R-57 S2	971.5	04/23/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.938	0.694	2.246	—	pCi/L	Y	U	U	12-1239	CAPA-12-13250	ARSL
R-57 S2	971.5	10/21/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0	0.64	2.18	—	pCi/L	Y	U	U	12-171	CAPA-12-1218	ARSL
R-57 S2	971.5	07/13/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.161	0.644	2.254	—	pCi/L	Y	U	U	11-2878	CAPA-11-23039	ARSL

Appendix D

Groundwater Results Greater Than Half of Screening Levels

Zone	Location	Screen Top Depth (ft)	Sample Date	Analysis Suite	Parameter Name	Parameter Code	Field Prep Code	Analysis Type Code	Field Quality Control Code	Detect Flag	Report Result	Method Detection Limit	Unit	Dilution Factor	Validation Qualifier	Validation Reason	Best Value Flag	Analytical Method	Lab ID	Screening Level	Reporting Level Code	Result/Screening Level
Intermediate	R-40 Si	649.67	04/24/13	Metals	Iron	Fe	F[a]	INIT[b]	REG[c]	Y[d]	725	30	µg/L	1	NQ[e]	NQ	Y	SW-846:6010B	GELC[f]	1000	NMWQCC Groundwater Standard[g]	0.73
Intermediate	R-40 Si	649.67	04/24/13	Metals	Manganese	Mn	F	INIT	REG	Y	282	2	µg/L	1	NQ	NQ	Y	SW-846:6010B	GELC	200	NMWQCC Groundwater Standard	1.41

[a] F = Filtered.

[b] INIT = Initial.

[c] REG = Regular.

[d] Y = Yes.

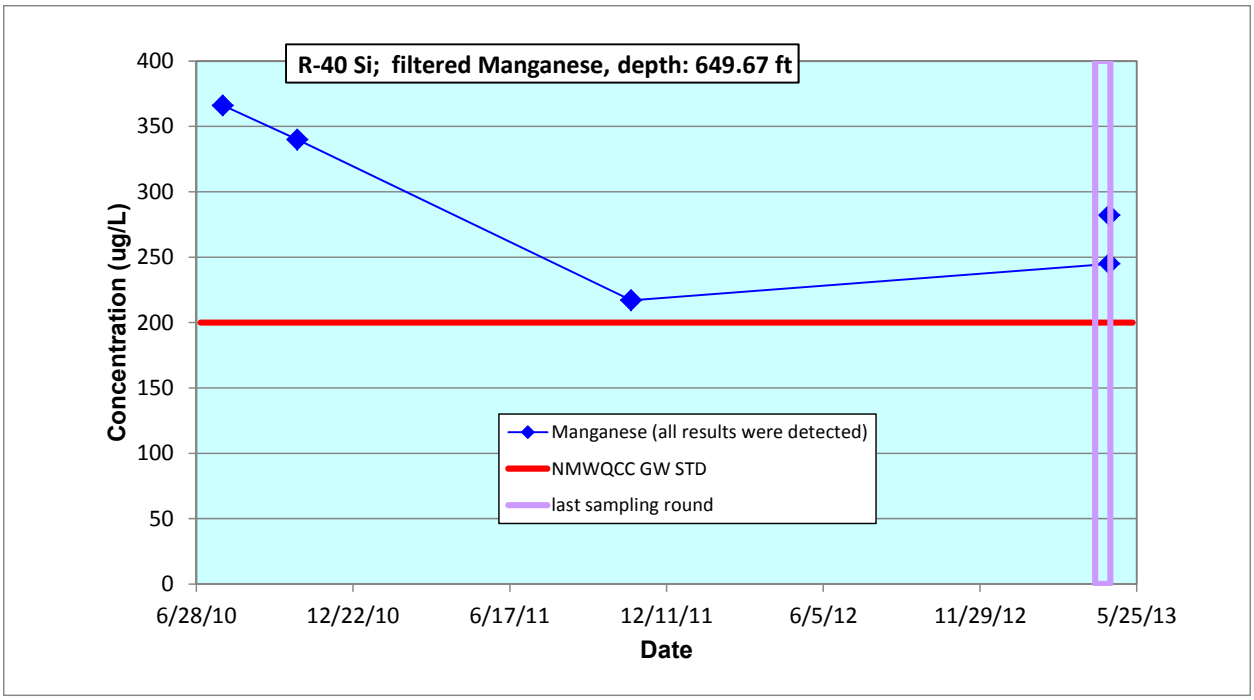
[e] NQ = Not qualified.

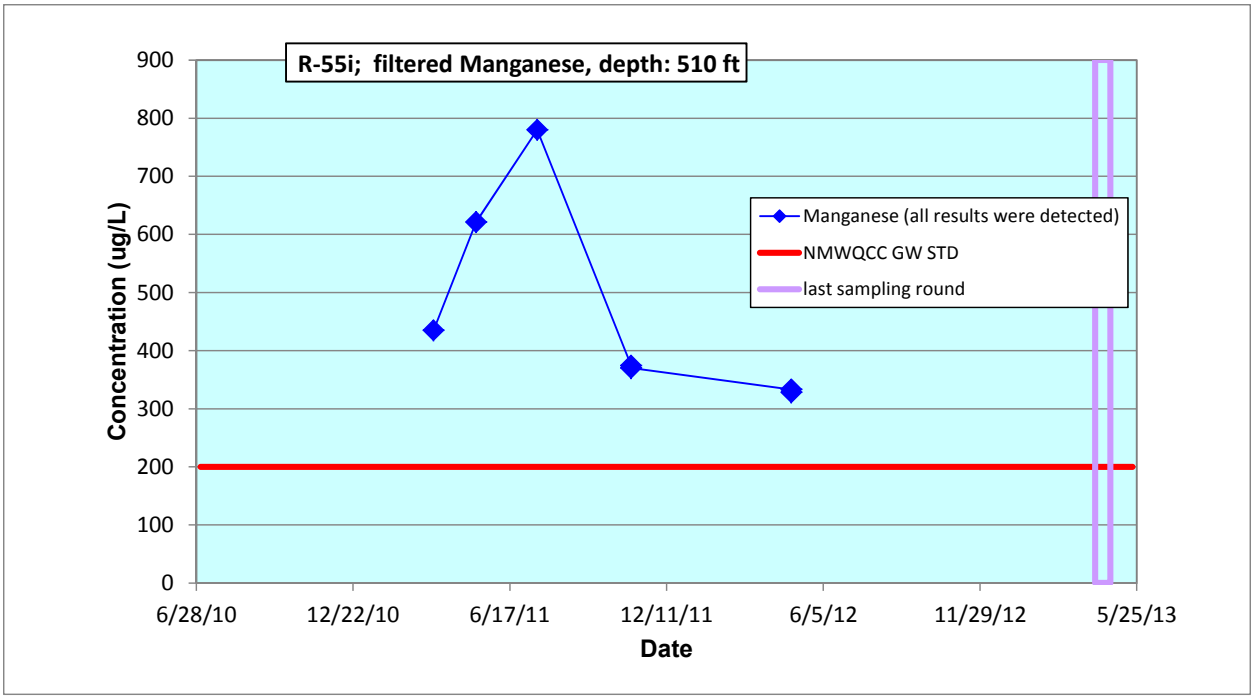
[f] GELC = General Engineering Laboratories, Inc., Charleston, SC.

[g] NMWQCC GW STD = New Mexico Water Quality Control Commission groundwater standard.

Appendix E

Analytical Chemistry Graphs of Screening-Level Exceedances


R-40 Si; filtered Manganese, depth: 649.67 ft
Concentration (ug/L)
400
350
300
250
200
150
100
50
0
6/28/10
12/22/10
6/17/11
12/11/11
6/5/12
11/29/12
5/25/13
Date
Manganese (all results were detected)
NMWQCC GW STD
last sampling round


R-55i; filtered Manganese, depth: 510 ft
Concentration (ug/L)
900
800
700
600
500
400
300
200
100
0
6/28/10
12/22/10
6/17/11
12/11/11
6/5/12
11/29/12
5/25/13
Date
Manganese (all results were detected)
NMWQCC GW STD
last sampling round

Appendix F

Analytical Reports
(on CD included with this document)

CD Table of Contents

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
12-1267	Inorganic	EES6[a]	CAPA-12-13477	04/30/12	R-55i	510	531.1
12-1267	Inorganic	EES6	CAPA-12-13478	04/30/12	R-55i	510	531.1
12-1267	Inorganic	EES6	CAPA-12-13479	04/30/12	R-55i	510	531.1
2013-473	Organic	GELC[b]	CAMO-13-26652	01/24/13	R-37 S2	1026	1046.6
2013-473	Organic	GELC	CAMO-13-26656	01/24/13	R-37 S2	1026	1046.6
2013-475	Organic	GELC	CAMO-13-26655	01/25/13	R-37 S1	929.3	950
2013-482	Organic	GELC	CAPA-13-26662	01/28/13	R-41 S2	965.3	975
2013-483	Organic	GELC	CAPA-13-26661	01/28/13	R-39	859	869
2013-490	Organic	GELC	CAPA-13-26664	01/29/13	R-57 S1	910	930.5
2013-492	Rad[c]	ARSL[d]	CAPA-13-26662	01/28/13	R-41 S2	965.3	975
2013-492	Rad	ARSL	CAPA-13-26661	01/28/13	R-39	859	869
2013-492	Rad	ARSL	CAPA-13-26664	01/29/13	R-57 S1	910	930.5
2013-493	Rad	ARSL	CAMO-13-26652	01/24/13	R-37 S2	1026	1046.6
2013-493	Rad	ARSL	CAMO-13-26655	01/25/13	R-37 S1	929.3	950
2013-493	Rad	ARSL	CAMO-13-26656	01/24/13	R-37 S2	1026	1046.6
2013-495	Organic	GELC	CAPA-13-26663	01/30/13	R-56 S1	945	965.6
2013-512	Rad	ARSL	CAPA-13-26663	01/30/13	R-56 S1	945	965.6
2013-702	Organic	GELC	CAPA-13-29561	04/08/13	R-20 S2	1147.1	1154.7
2013-702	Organic	GELC	CAPA-13-29578	04/08/13	R-53 S1	849.2	859.2
2013-702	Organic	GELC	CAPA-13-29579	04/08/13	R-53 S2	959.7	980.2
2013-703	Organic	GELC	CAPA-13-30294	04/08/13	R-20 S2	1147.1	1154.7
2013-709	Organic	GELC	CAPA-13-29566	04/09/13	R-32 S1	867.5	875.2
2013-709	Organic	GELC	CAPA-13-29571	04/09/13	R-41 S2	965.3	975
2013-709	Organic	GELC	CAPA-13-29567	04/09/13	R-39	859	869
2013-710	Rad	ARSL	CAPA-13-29561	04/09/13	R-20 S2	1147.1	1154.7
2013-710	Rad	ARSL	CAPA-13-29566	04/09/13	R-32 S1	867.5	875.2
2013-710	Rad	ARSL	CAPA-13-29571	04/09/13	R-41 S2	965.3	975
2013-710	Rad	ARSL	CAPA-13-29578	04/08/13	R-53 S1	849.2	859.2
2013-710	Rad	ARSL	CAPA-13-29567	04/09/13	R-39	859	869
2013-710	Rad	ARSL	CAPA-13-29579	04/08/13	R-53 S2	959.7	980.2
2013-714	Organic	GELC	CAPA-13-29584	04/10/13	R-57 S1	910	930.5
2013-714	Organic	GELC	CAPA-13-29585	04/10/13	R-57 S2	971.5	992.1
2013-715	Organic	GELC	CAPA-13-29560	04/10/13	R-20 S1	904.6	912.2
2013-720	Organic	GELC	CAMO-13-29615	04/11/13	R-38	821.2	831.2
2013-720	Organic	GELC	CAMO-13-29627	04/11/13	R-37 S2	1026	1046.6
2013-720	Organic	GELC	CAMO-13-29628	04/11/13	R-38	821.2	831.2
2013-721	Organic	GELC	CAPA-13-29577	04/11/13	R-52 S2	1107	1117
2013-721	Organic	GELC	CAPA-13-29576	04/11/13	R-52 S1	1035.2	1055.7

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2013-727	Organic	GELC	CAPA-13-29572	04/15/13	R-49 S1	845	855
2013-731	Inorganic	GELC	CAPA-13-29581	04/16/13	R-54 S2	915	925
2013-731	Inorganic	GELC	CAPA-13-29532	04/16/13	R-54 S2	915	925
2013-731	Inorganic	GELC	CAPA-13-29534	04/16/13	R-54 S2	915	925
2013-731	Inorganic	GELC	CAPA-13-29607	04/16/13	R-54 S2	915	925
2013-731	Organic	GELC	CAPA-13-29532	04/16/13	R-54 S2	915	925
2013-731	Organic	GELC	CAPA-13-29569	04/16/13	R-40 S2	849.27	870
2013-731	Organic	GELC	CAPA-13-29580	04/16/13	R-54 S1	830	840
2013-731	Organic	GELC	CAPA-13-29581	04/16/13	R-54 S2	915	925
2013-737	Rad	ARSL	CAMO-13-29627	04/11/13	R-37 S2	1026	1046.6
2013-737	Rad	ARSL	CAMO-13-29628	04/11/13	R-38	821.2	831.2
2013-737	Rad	ARSL	CAMO-13-29615	04/11/13	R-38	821.2	831.2
2013-738	Rad	ARSL	CAPA-13-29560	04/10/13	R-20 S1	904.6	912.2
2013-738	Rad	ARSL	CAPA-13-29577	04/11/13	R-52 S2	1107	1117
2013-738	Rad	ARSL	CAPA-13-29584	04/10/13	R-57 S1	910	930.5
2013-738	Rad	ARSL	CAPA-13-29569	04/16/13	R-40 S2	849.27	870
2013-738	Rad	ARSL	CAPA-13-29572	04/15/13	R-49 S1	845	855
2013-738	Rad	ARSL	CAPA-13-29580	04/16/13	R-54 S1	830	840
2013-738	Rad	ARSL	CAPA-13-29581	04/16/13	R-54 S2	915	925
2013-738	Rad	ARSL	CAPA-13-29576	04/11/13	R-52 S1	1035.2	1055.7
2013-738	Rad	ARSL	CAPA-13-29532	04/16/13	R-54 S2	915	925
2013-738	Rad	ARSL	CAPA-13-29585	04/10/13	R-57 S2	971.5	992.1
2013-739	Rad	ARSL	CAPA-13-29568	04/17/13	R-40 S1	751.59	785.06
2013-740	Rad	ARSL	CAMO-13-29614	04/17/13	R-37 S1	929.3	950
2013-740	Rad	ARSL	CAMO-13-29626	04/17/13	R-37 S1	929.3	950
2013-742	Organic	GELC	CAPA-13-29568	04/17/13	R-40 S1	751.59	785.06
2013-743	Organic	GELC	CAMO-13-29614	04/17/13	R-37 S1	929.3	950
2013-743	Organic	GELC	CAMO-13-29626	04/17/13	R-37 S1	929.3	950
2013-749	Organic	GELC	CAMO-13-29631	04/18/13	R-55i	510	531.1
2013-752	Organic	GELC	CAPA-13-29573	04/19/13	R-49 S2	905.6	926.4
2013-753	Organic	GELC	CAMO-13-29629	04/18/13	R-55 S1	860	880.6
2013-753	Organic	GELC	CAMO-13-29630	04/18/13	R-55 S2	994.4	1015.4
2013-757	Organic	GELC	CAMO-13-29625	04/22/13	R-21	888.8	906.8
2013-758	Organic	GELC	CAPA-13-29563	04/22/13	R-23i S1	400.3	420
2013-758	Organic	GELC	CAPA-13-29564	04/22/13	R-23i S2	470.2	480.1
2013-763	Organic	GELC	CAPA-13-29562	04/23/13	R-23	816	873.2
2013-763	Organic	GELC	CAPA-13-29565	04/23/13	R-23i S3	524	547
2013-764	Rad	ARSL	CAMO-13-29625	04/22/13	R-21	888.8	906.8
2013-764	Rad	ARSL	CAMO-13-29629	04/18/13	R-55 S1	860	880.6

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2013-764	Rad	ARSL	CAMO-13-29630	04/18/13	R-55 S2	994.4	1015.4
2013-764	Rad	ARSL	CAMO-13-29631	04/18/13	R-55i	510	531.1
2013-765	Rad	ARSL	CAPA-13-29562	04/23/13	R-23	816	873.2
2013-765	Rad	ARSL	CAPA-13-29564	04/22/13	R-23i S2	470.2	480.1
2013-765	Rad	ARSL	CAPA-13-29565	04/23/13	R-23i S3	524	547
2013-765	Rad	ARSL	CAPA-13-29573	04/19/13	R-49 S2	905.6	926.4
2013-769	Rad	ARSL	CAPA-13-29570	04/24/13	R-40 Si	649.67	669.02
2013-769	Rad	ARSL	CAPA-13-29582	04/24/13	R-56 S1	945	965.6
2013-769	Rad	ARSL	CAPA-13-29583	04/24/13	R-56 S2	1046.6	1067.1
2013-773	Organic	GELC	CAPA-13-29582	04/24/13	R-56 S1	945	965.6
2013-773	Organic	GELC	CAPA-13-29583	04/24/13	R-56 S2	1046.6	1067.1
2013-774	Inorganic	GELC	CAPA-13-30295	04/24/13	R-40 Si	649.67	669.02
2013-774	Inorganic	GELC	CAPA-13-30298	04/24/13	R-40 Si	649.67	669.02
2013-774	Inorganic	GELC	CAPA-13-30301	04/24/13	R-40 Si	649.67	669.02
2013-774	Inorganic	GELC	CAPA-13-30300	04/24/13	R-40 Si	649.67	669.02
2013-777	Organic	GELC	CAPA-13-29531	04/25/13	R-51 S1	914.96	925.24
2013-777	Organic	GELC	CAPA-13-29574	04/25/13	R-51 S1	914.96	925.24
2013-777	Organic	GELC	CAPA-13-29575	04/25/13	R-51 S2	1031	1041
2013-792	Rad	ARSL	CAPA-13-29531	04/25/13	R-51 S1	914.96	925.24
2013-792	Rad	ARSL	CAPA-13-29574	04/25/13	R-51 S1	914.96	925.24
2013-792	Rad	ARSL	CAPA-13-29575	04/25/13	R-51 S2	1031	1041

[a] EES6 = EES-6, Los Alamos National Laboratory's Hydrology, Geochemistry, and Geology Group.

[b] GELC = General Engineering Laboratories, Inc., Charleston, SC.

[c] Rad = Radiochemistry (not gamma).

[d] ARSL = American Radiation Services, Inc.