ERID-237525

LA-UR-13-20387
February 2013
EP2013-0010

Periodic Monitoring Report for Technical Area 21 Monitoring Group, August 27–September 13, 2012

Los Alamos
NATIONAL LABORATORY
EST. 1943

Prepared by the Environmental Programs Directorate

Los Alamos National Laboratory, operated by Los Alamos National Security, LLC, for the U.S. Department of Energy under Contract No. DE-AC52-06NA25396, has prepared this document pursuant to the Compliance Order on Consent, signed March 1, 2005. The Compliance Order on Consent contains requirements for the investigation and cleanup, including corrective action, of contamination at Los Alamos National Laboratory. The U.S. government has rights to use, reproduce, and distribute this document. The public may copy and use this document without charge, provided that this notice and any statement of authorship are reproduced on all copies.

EP2013-0010

Periodic Monitoring Report for Technical Area 21 Monitoring Group, August 27–September 13, 2012

February 2013

Responsible project manager:

Printed Name	Signature	Title	Organization	Date
Steve Paris	for	Project Manager	Environmental Programs	2/13/13

Responsible LANS representative:

Printed Name	Signature	Title	Organization	Date
Jeff Mousseau	Jeff Mous	Associate Director	Environmental Programs	2/14/13

Responsible DOE representative:

Printed Name	Signature	Title	Organization	Date
Peter Maggiore	for	Assistant Manager	DOE-NA-00-LA	2-19-2013

EXECUTIVE SUMMARY

This periodic monitoring report (PMR) provides the results of the fiscal year 2012, fourth quarter, periodic monitoring event (PME) conducted by Los Alamos National Laboratory in the Technical Area 21 (TA-21) monitoring group. This PME was conducted pursuant to the 2011 Interim Facility-Wide Groundwater Monitoring Plan, Revision 1, prepared in accordance with the Compliance Order on Consent.

The PME documented in this report occurred from August 27–September 13, 2012, 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 the current 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 groundwater results from previous PME samples reported in this PMR were above screening levels. Two results from groundwater samples collected during this PME from the TA-21 monitoring group were above applicable screening levels.

CONTENTS

1.0 INTRODUCTION 1
1.1 Background 1
2.0 SCOPE OF ACTIVITIES 2
3.0 MONITORING RESULTS 2
3.1 Methods and Procedures 2
3.2 Field Parameter Results 2
3.3 Groundwater Elevations and Base-Flow Observations 2
3.4 Deviations from Planned Scope 2
4.0 ANALYTICAL DATA RESULTS 3
4.1 Methods and Procedures 3
4.2 Analytical Data 4
4.2.1 Surface Water (Base Flow) 5
4.2.2 Groundwater 5
4.3 Sampling Program Modifications 6
5.0 SUMMARY AND INTERPRETATIONS 6
5.1 Monitoring Results 6
5.2 Analytical Results 6
5.2.1 Surface Water (Base Flow) 6
5.2.2 Groundwater 6
5.3 Data Gaps 6
5.4 Remediation System Monitoring 6
6.0 REFERENCES 6

Figure

Figure 2.0-1 Locations monitored for this PME 9

Tables

Table 2.0-1 TA-21 Monitoring Group Locations and General Information 11
Table 3.4-1 TA-21 Monitoring Group PME Observations and Deviations 12
Table 3.4-2 Analytes with PQLs above Screening Levels 12
Table 4.2-1 Sources of Screening Levels for Groundwater and Surface Water at Los Alamos National Laboratory 14
Table 4.2-2 TA-21 Monitoring Group Groundwater Results above Screening Levels 14

Appendixes

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

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

Appendix D Groundwater Results Greater Than Half of Screening Levels

Appendix E Analytical Chemistry Graphs of Screening-Level Exceedances

Appendix F Analytical Reports (on CD included with this document)

Plate

Plate 1 Groundwater elevations

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
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 2012, fourth quarter, annual groundwater monitoring conducted by Los Alamos National Laboratory (LANL or the Laboratory) in the Technical Area 21 (TA-21) monitoring group pursuant to the 2011 Interim Facility-Wide Groundwater Monitoring Plan (IFGMP), Revision 1 (LANL 2011, 208811), prepared in accordance with the Compliance Order on Consent (the Consent Order). The periodic monitoring event (PME) occurred from August 27–September 13, 2012, and included sampling of groundwater wells and well screens. This report also includes any results from samples collected during 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 the current 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

The TA-21 monitoring group is located in and around TA-21 and is primarily located in upper Los Alamos Canyon. TA-21 is located on the mesa north of Los Alamos Canyon, which is joined by DP Canyon, east of TA-21. TA-21 consists of two past operational areas, DP West and DP East, both of which produced liquid and solid radioactive wastes. The operations at DP West included plutonium processing, while the operations at DP East included the production of weapons initiators and tritium research.

From 1952 to 1986, a liquid-waste treatment plant discharged effluent containing radionuclides from the former plutonium-processing facility at TA-21 into DP Canyon. Primary sources of contaminants in the vicinity of the TA-21 monitoring group include the effluent outfall [Solid Waste Management Unit 21-011(k)], the adsorption beds and disposal shafts at Material Disposal Area T, DP West, and waste lines and sumps. Other potential sources include DP East and a diesel spill. The monitoring objectives for the TA-21 monitoring group are based in part on the results and conclusions presented in the Los Alamos and Pueblo Canyons Investigation Report (LANL 2004, 087390) as well as on the NMED-approved

Los Alamos and Pueblo Canyons Groundwater Monitoring Well Network Evaluation and Recommendations, Revision 1 (LANL 2008, 101330).

Los Alamos Canyon received releases of radioactive effluents during the earliest Manhattan Project operations at TA-01 (1942–1945) and until 1993 from nuclear reactors at TA-02. Los Alamos Canyon also received radionuclides and metals in discharges from the sanitary sewage lagoons and cooling towers at the Los Alamos Neutron Science Center at TA-53. Except for strontium-90, contaminant concentrations in shallow groundwater have decreased dramatically in recent decades.

Pueblo Canyon receives effluent from the new Los Alamos County Wastewater Treatment Plant (completed in 2007). Acid Canyon, a tributary, received radioactive industrial effluent from 1943 to 1964. Compared with past decades, little radioactivity is found in current groundwater samples.

2.0 SCOPE OF ACTIVITIES

The PME for the TA-21 monitoring group was conducted pursuant to the 2011 IFGMP, Revision 1 (LANL 2011, 208811).

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 monitored locations. These locations are shown in Figure 2.0-1.

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 2011 IFGMP, Revision 1 (LANL 2011, 208811).

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 2011 IFGMP, Revision 1 (LANL 2011, 208811). 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-010.2, Land Application of Groundwater. ENV-RCRA-QP-010.2 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 banks, 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 is 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 groundwater results from previous PME samples reported in this PMR were above screening levels.

For the current PME (Table 4.2-2), the perchlorate concentration of 5.98 µg/L (the field duplicate result was 6.09 µg/L) at intermediate well R-6i was above the Consent Order screening level of 4 µg/L. The result is the lowest observed, with earlier measurements since 2005 that are between 6.17 µg/L and 9.48 µg/L.

The filtered manganese result of 215 µg/L in the 278-ft intermediate screen 1 at well R-9i was above the 200-µg/L NMWQCC groundwater standard screening level (applicable to domestic water supply). Past filtered manganese concentrations from sampling events that began in 2000 range up to 1000 µg/L. Results from recent sampling events between 2008 and 2010 range from 41 µg/L to 244 µg/L.

4.3 Sampling Program Modifications

No modifications to the periodic monitoring sampling for the TA-21 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 groundwater results from previous PME samples reported in this PMR were above screening levels. Two results from groundwater samples collected during this PME were 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-21 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), April 2004. "Los Alamos and Pueblo Canyons Investigation Report," Los Alamos National Laboratory document LA-UR-04-2714, Los Alamos, New Mexico. (LANL 2004, 087390)

LANL (Los Alamos National Laboratory), February 2008. "Los Alamos and Pueblo Canyons Groundwater Monitoring Well Network Evaluation and Recommendations, Revision 1," Los Alamos National Laboratory document LA-UR-08-1105, Los Alamos, New Mexico. (LANL 2008, 101330)

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), December 2011. "2011 Interim Facility-Wide Groundwater Monitoring Plan, Revision 1," Los Alamos National Laboratory document LA-UR-11-6958, Los Alamos, New Mexico. (LANL 2011, 208811)

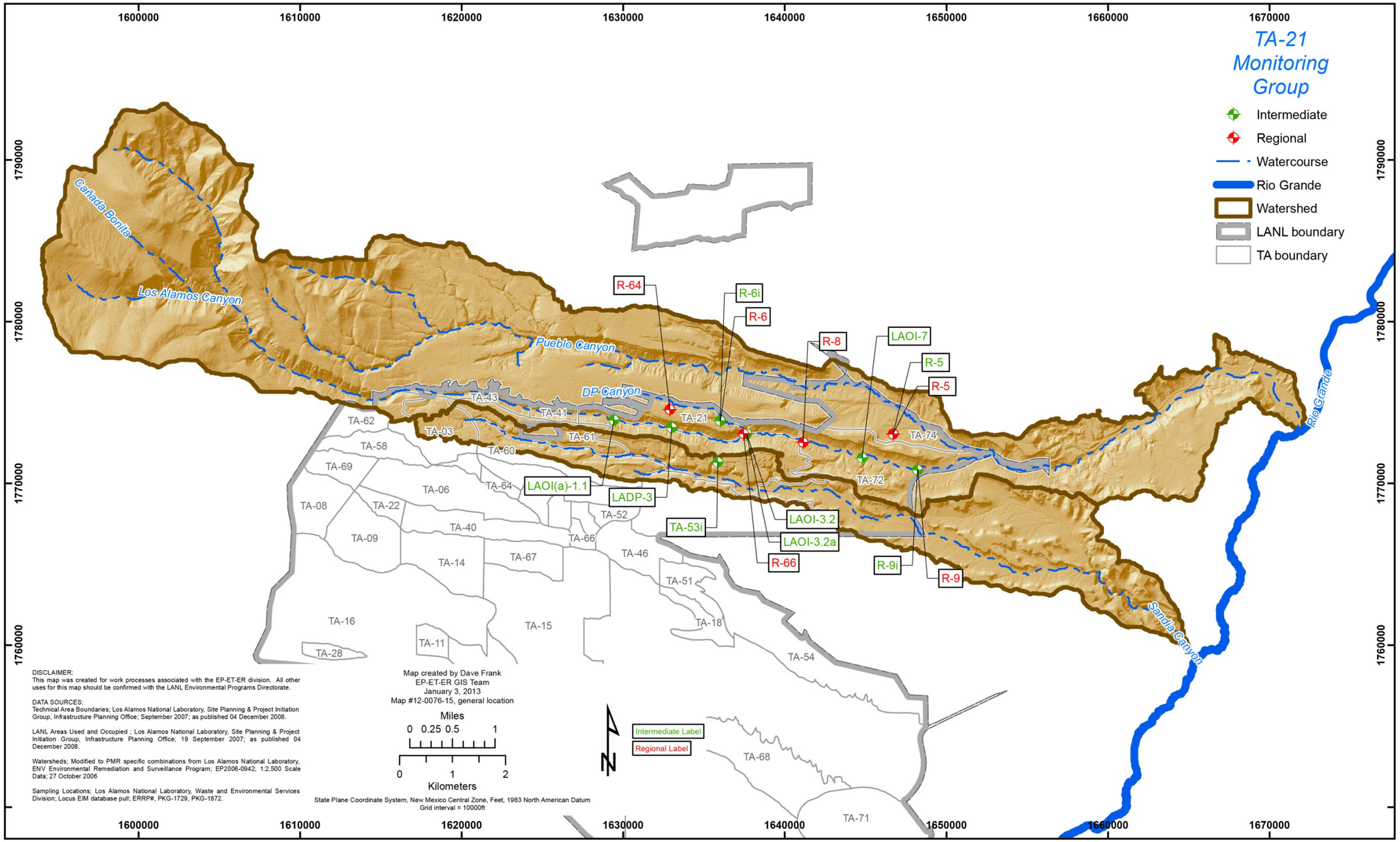


Figure 2.0-1 Locations monitored for this PME. Some locations on this map may not have been sampled (see Table 3.4-1).

Table 2.0-1
TA-21 Monitoring Group Locations and General Information

Location Name	Sample Collection Date	Screened Interval (ft)	Screen Top Depth (ft)	Screen Bottom Depth (ft)	Calculated Single Casing Volume (gal.)	Purge Volume (gal.)	Purge Rate (gpm[a])
Intermediate							
LADP-3	08/30/12	9	316	325	5.5	0.88	0.4
LAOI(a)-1.1	09/04/12	9.8	295.2	305	36.0	5.78	0.45
LAOI-3.2	09/13/12	9.5	153.3	162.8	n/a[b]	n/a	n/a
LAOI-3.2a	09/13/12	9.6	181.4	191	12.0	3.92	0.65
LAOI-7	09/11/12	19.6	240	259.6	78.0	17.32	3.25
R-5 S2	08/29/12	16	372.8	388.8	n/a	n/a	n/a
R-6i	08/27/12	10	602	612	53.0	17.70	4.4
R-9i S1	09/06/12	10.4	189.1	199.5	n/a	n/a	n/a
R-9i S2	09/06/12	10.7	269.6	280.3	n/a	n/a	n/a
TA-53i	08/27/12	10	600	610	117.6	20.72	2.8
Regional							
R-5 S3	08/30/12	43.4	676.9	720.3	n/a	n/a	n/a
R-5 S4	08/30/12	5	858.7	863.7	n/a	n/a	n/a
R-6	08/30/12	23	1205	1228	227.0	75.50	7.4
R-64	09/07/12	20.5	1285	1305.5	n/a	n/a	n/a
R-66	08/31/12	20.3	819.4	839.7	171.0	56.30	4.5
R-8 S1	09/04/12	50.39	705.31	755.7	4.5	n/a	n/a
R-8 S2	09/05/12	7	821	828	4.5	n/a	n/a
R-9	09/06/12	65.5	683	748.5	195.3	54.46	9.3

[a] gpm = Gallons per minute.

[b] n/a = Not applicable.

Table 3.4-1
TA-21 Monitoring Group PME Observations and Deviations

Location	Deviation	Cause	Comment
LAOI-7, R-9i S1, R-9i S2, R-8 S1, R-8 S2, and R-9	Moved from the General Surveillance monitoring group to TA-21 monitoring group	NMED draft comments on the 2011 IFGMP, Revision 1	n/a*
LAOI-7, R-9	Volatile organic compounds and semivolatile organic compounds added to monitoring plan	NMED draft comments on the 2011 IFGMP, Revision 1	n/a
R-8 S1, R-8 S2, and R-9	Tritium added to monitoring plan	NMED draft comments on the 2011 IFGMP, Revision 1	n/a
LADP-3, LAOI(a)-1.1, R-6, LAOI-3.2, LAOI-3.2(a), and TA-53i	Metals, volatile organic compounds, and semivolatile organic compounds added to monitoring plan	NMED draft comments on the 2011 IFGMP, Revision 1	n/a
R-6i, TA-53i	Metals added to monitoring plan	NMED draft comments on the 2011 IFGMP, Revision 1	n/a
LAOI-3.2	No sample for this PME	Pump removed from well for repair	This location will be sampled during the next scheduled PME.
R-64	No sample for this PME	Sampling on hold pending redevelopment	This location will be sampled after redevelopment.

* 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

Table 3.4-2 (continued)

Analyte or CAS[a] No.	Analyte Name	MDL[b]	PQL	Screening Level	Unit	Screening-Level Type
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
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-21 Monitoring Group Groundwater Results above Screening Levels

Location	Date	Analyte	Field Prep Code	Result	Unit	Screening Level	Screening-Level Type
Intermediate Groundwater							
R-6i	08/27/12	Perchlorate	F*	6.09	µg/L	4	Consent Order
R-9i S1	09/06/12	Manganese	F	215	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
LADP-3	316	08/30/12	WG[a]	Dissolved Oxygen	8.92	mg/L	CALA-12-22815
LADP-3	316	03/07/11	WG	Dissolved Oxygen	8.31	mg/L	CALA-11-5094
LADP-3	316	08/20/10	WG	Dissolved Oxygen	11.7	mg/L	CALA-10-24991
LADP-3	316	01/07/10	WG	Dissolved Oxygen	5.01	mg/L	CALA-10-9163
LADP-3	316	07/15/09	WG	Dissolved Oxygen	8.26	mg/L	CALA-09-11129
LADP-3	316	08/30/12	WG	Oxidation-Reduction Potential	42.5	mV	CALA-12-22815
LADP-3	316	03/07/11	WG	Oxidation-Reduction Potential	172.5	mV	CALA-11-5094
LADP-3	316	08/20/10	WG	Oxidation-Reduction Potential	460.1	mV	CALA-10-24991
LADP-3	316	01/07/10	WG	Oxidation-Reduction Potential	366.2	mV	CALA-10-9163
LADP-3	316	07/15/09	WG	Oxidation-Reduction Potential	260.9	mV	CALA-09-11129
LADP-3	316	08/30/12	WG	pH	10.52	SU[b]	CALA-12-22815
LADP-3	316	03/07/11	WG	pH	6.87	SU	CALA-11-5094
LADP-3	316	08/20/10	WG	pH	6.49	SU	CALA-10-24991
LADP-3	316	01/07/10	WG	pH	6.33	SU	CALA-10-9163
LADP-3	316	07/15/09	WG	pH	6.64	SU	CALA-09-11129
LADP-3	316	08/30/12	WG	Specific Conductance	93	µS/cm	CALA-12-22815
LADP-3	316	03/07/11	WG	Specific Conductance	159	µS/cm	CALA-11-5094
LADP-3	316	08/20/10	WG	Specific Conductance	223	µS/cm	CALA-10-24991
LADP-3	316	01/07/10	WG	Specific Conductance	230	µS/cm	CALA-10-9163
LADP-3	316	07/15/09	WG	Specific Conductance	193	µS/cm	CALA-09-11129
LADP-3	316	08/30/12	WG	Temperature	11.22	deg C	CALA-12-22815
LADP-3	316	03/07/11	WG	Temperature	9.65	deg C	CALA-11-5094
LADP-3	316	08/20/10	WG	Temperature	10.72	deg C	CALA-10-24991
LADP-3	316	01/07/10	WG	Temperature	9.35	deg C	CALA-10-9163
LADP-3	316	07/15/09	WG	Temperature	11.95	deg C	CALA-09-11129
LADP-3	316	08/30/12	WG	Turbidity	2.75	NTU[c]	CALA-12-22815
LADP-3	316	08/20/10	WG	Turbidity	0.69	NTU	CALA-10-24991
LADP-3	316	01/07/10	WG	Turbidity	1.12	NTU	CALA-10-9163
LADP-3	316	07/15/09	WG	Turbidity	0.97	NTU	CALA-09-11129

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
LADP-3	316	01/09/09	WG	Turbidity	1.51	NTU	CALA-09-1747
LAOI(a)-1.1	295.2	09/04/12	WG	Dissolved Oxygen	9.82	mg/L	CALA-12-22816
LAOI(a)-1.1	295.2	03/08/11	WG	Dissolved Oxygen	9.88	mg/L	CALA-11-5112
LAOI(a)-1.1	295.2	08/19/10	WG	Dissolved Oxygen	8.76	mg/L	CALA-10-25215
LAOI(a)-1.1	295.2	01/13/10	WG	Dissolved Oxygen	8.31	mg/L	CALA-10-9157
LAOI(a)-1.1	295.2	07/07/09	WG	Dissolved Oxygen	6.18	mg/L	CALA-09-11125
LAOI(a)-1.1	295.2	09/04/12	WG	Oxidation-Reduction Potential	230	mV	CALA-12-22816
LAOI(a)-1.1	295.2	03/08/11	WG	Oxidation-Reduction Potential	192.3	mV	CALA-11-5112
LAOI(a)-1.1	295.2	08/19/10	WG	Oxidation-Reduction Potential	159	mV	CALA-10-25215
LAOI(a)-1.1	295.2	01/13/10	WG	Oxidation-Reduction Potential	259.8	mV	CALA-10-9157
LAOI(a)-1.1	295.2	07/07/09	WG	Oxidation-Reduction Potential	419.2	mV	CALA-09-11125
LAOI(a)-1.1	295.2	09/04/12	WG	pH	6.8	SU	CALA-12-22816
LAOI(a)-1.1	295.2	03/08/11	WG	pH	6.72	SU	CALA-11-5112
LAOI(a)-1.1	295.2	08/19/10	WG	pH	6.31	SU	CALA-10-25215
LAOI(a)-1.1	295.2	01/13/10	WG	pH	6.55	SU	CALA-10-9157
LAOI(a)-1.1	295.2	07/07/09	WG	pH	6.65	SU	CALA-09-11125
LAOI(a)-1.1	295.2	09/04/12	WG	Specific Conductance	94	µS/cm	CALA-12-22816
LAOI(a)-1.1	295.2	03/08/11	WG	Specific Conductance	92	µS/cm	CALA-11-5112
LAOI(a)-1.1	295.2	08/19/10	WG	Specific Conductance	87	µS/cm	CALA-10-25215
LAOI(a)-1.1	295.2	01/13/10	WG	Specific Conductance	95	µS/cm	CALA-10-9157
LAOI(a)-1.1	295.2	07/07/09	WG	Specific Conductance	87	µS/cm	CALA-09-11125
LAOI(a)-1.1	295.2	09/04/12	WG	Temperature	9.65	deg C	CALA-12-22816
LAOI(a)-1.1	295.2	03/08/11	WG	Temperature	9.39	deg C	CALA-11-5112
LAOI(a)-1.1	295.2	08/19/10	WG	Temperature	9.95	deg C	CALA-10-25215
LAOI(a)-1.1	295.2	01/13/10	WG	Temperature	9.04	deg C	CALA-10-9157
LAOI(a)-1.1	295.2	07/07/09	WG	Temperature	10.14	deg C	CALA-09-11125
LAOI(a)-1.1	295.2	09/04/12	WG	Turbidity	51.2	NTU	CALA-12-22816
LAOI(a)-1.1	295.2	03/08/11	WG	Turbidity	17.3	NTU	CALA-11-5112
LAOI(a)-1.1	295.2	08/19/10	WG	Turbidity	12.9	NTU	CALA-10-25215

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
LAOI(a)-1.1	295.2	01/13/10	WG	Turbidity	127	NTU	CALA-10-9157
LAOI(a)-1.1	295.2	07/07/09	WG	Turbidity	52.3	NTU	CALA-09-11125
LAOI-3.2a	181.4	09/13/12	WG	Dissolved Oxygen	9.23	mg/L	CALA-12-22818
LAOI-3.2a	181.4	03/22/11	WG	Dissolved Oxygen	8.74	mg/L	CALA-11-5159
LAOI-3.2a	181.4	08/20/10	WG	Dissolved Oxygen	9.2	mg/L	CALA-10-25221
LAOI-3.2a	181.4	01/08/10	WG	Dissolved Oxygen	4.91	mg/L	CALA-10-9171
LAOI-3.2a	181.4	07/08/09	WG	Dissolved Oxygen	8.2	mg/L	CALA-09-11150
LAOI-3.2a	181.4	09/13/12	WG	Oxidation-Reduction Potential	164.5	mV	CALA-12-22818
LAOI-3.2a	181.4	03/22/11	WG	Oxidation-Reduction Potential	236.8	mV	CALA-11-5159
LAOI-3.2a	181.4	08/20/10	WG	Oxidation-Reduction Potential	174.4	mV	CALA-10-25221
LAOI-3.2a	181.4	07/08/09	WG	Oxidation-Reduction Potential	507.5	mV	CALA-09-11150
LAOI-3.2a	181.4	01/12/09	WG	Oxidation-Reduction Potential	391.6	mV	CALA-09-1737
LAOI-3.2a	181.4	09/13/12	WG	pH	6.71	SU	CALA-12-22818
LAOI-3.2a	181.4	03/22/11	WG	pH	6.56	SU	CALA-11-5159
LAOI-3.2a	181.4	08/20/10	WG	pH	5.96	SU	CALA-10-25221
LAOI-3.2a	181.4	01/08/10	WG	pH	6.35	SU	CALA-10-9171
LAOI-3.2a	181.4	07/08/09	WG	pH	5.53	SU	CALA-09-11150
LAOI-3.2a	181.4	09/13/12	WG	Specific Conductance	271	µS/cm	CALA-12-22818
LAOI-3.2a	181.4	03/22/11	WG	Specific Conductance	271	µS/cm	CALA-11-5159
LAOI-3.2a	181.4	08/20/10	WG	Specific Conductance	265	µS/cm	CALA-10-25221
LAOI-3.2a	181.4	01/08/10	WG	Specific Conductance	268	µS/cm	CALA-10-9171
LAOI-3.2a	181.4	07/08/09	WG	Specific Conductance	218	µS/cm	CALA-09-11150
LAOI-3.2a	181.4	09/13/12	WG	Temperature	11.82	deg C	CALA-12-22818
LAOI-3.2a	181.4	03/22/11	WG	Temperature	11.81	deg C	CALA-11-5159
LAOI-3.2a	181.4	08/20/10	WG	Temperature	12	deg C	CALA-10-25221
LAOI-3.2a	181.4	01/08/10	WG	Temperature	11.39	deg C	CALA-10-9171
LAOI-3.2a	181.4	07/08/09	WG	Temperature	12.2	deg C	CALA-09-11150
LAOI-3.2a	181.4	09/13/12	WG	Turbidity	0.27	NTU	CALA-12-22818
LAOI-3.2a	181.4	03/22/11	WG	Turbidity	0.17	NTU	CALA-11-5159

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
LAOI-3.2a	181.4	08/20/10	WG	Turbidity	0.32	NTU	CALA-10-25221
LAOI-3.2a	181.4	01/08/10	WG	Turbidity	0.65	NTU	CALA-10-9171
LAOI-3.2a	181.4	07/08/09	WG	Turbidity	0.62	NTU	CALA-09-11150
LAOI-7	240	09/11/12	WG	Dissolved Oxygen	8.07	mg/L	CALA-12-22894
LAOI-7	240	03/10/11	WG	Dissolved Oxygen	7.97	mg/L	CALA-11-5160
LAOI-7	240	08/26/10	WG	Dissolved Oxygen	7.57	mg/L	CALA-10-25225
LAOI-7	240	01/14/10	WG	Dissolved Oxygen	7.3	mg/L	CALA-10-9165
LAOI-7	240	07/13/09	WG	Dissolved Oxygen	8.56	mg/L	CALA-09-11155
LAOI-7	240	09/11/12	WG	Oxidation-Reduction Potential	56.8	mV	CALA-12-22894
LAOI-7	240	03/10/11	WG	Oxidation-Reduction Potential	43.5	mV	CALA-11-5160
LAOI-7	240	08/26/10	WG	Oxidation-Reduction Potential	85.9	mV	CALA-10-25225
LAOI-7	240	01/14/10	WG	Oxidation-Reduction Potential	436.4	mV	CALA-10-9165
LAOI-7	240	07/13/09	WG	Oxidation-Reduction Potential	317.7	mV	CALA-09-11155
LAOI-7	240	09/11/12	WG	pH	7.13	SU	CALA-12-22894
LAOI-7	240	03/10/11	WG	pH	7.22	SU	CALA-11-5160
LAOI-7	240	08/26/10	WG	pH	6.87	SU	CALA-10-25225
LAOI-7	240	01/14/10	WG	pH	6.68	SU	CALA-10-9165
LAOI-7	240	07/13/09	WG	pH	5.36	SU	CALA-09-11155
LAOI-7	240	09/11/12	WG	Specific Conductance	218	µS/cm	CALA-12-22894
LAOI-7	240	03/10/11	WG	Specific Conductance	228	µS/cm	CALA-11-5160
LAOI-7	240	08/26/10	WG	Specific Conductance	217	µS/cm	CALA-10-25225
LAOI-7	240	01/14/10	WG	Specific Conductance	226	µS/cm	CALA-10-9165
LAOI-7	240	07/13/09	WG	Specific Conductance	184	µS/cm	CALA-09-11155
LAOI-7	240	09/11/12	WG	Temperature	14.69	deg C	CALA-12-22894
LAOI-7	240	03/10/11	WG	Temperature	14.26	deg C	CALA-11-5160
LAOI-7	240	08/26/10	WG	Temperature	14.6	deg C	CALA-10-25225
LAOI-7	240	01/14/10	WG	Temperature	13.96	deg C	CALA-10-9165
LAOI-7	240	07/13/09	WG	Temperature	14.87	deg C	CALA-09-11155
LAOI-7	240	09/11/12	WG	Turbidity	2.15	NTU	CALA-12-22894

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
LAOI-7	240	03/10/11	WG	Turbidity	1.4	NTU	CALA-11-5160
LAOI-7	240	08/26/10	WG	Turbidity	2.65	NTU	CALA-10-25225
LAOI-7	240	01/14/10	WG	Turbidity	2.67	NTU	CALA-10-9165
LAOI-7	240	07/13/09	WG	Turbidity	1.68	NTU	CALA-09-11155
R-5 S2	372.8	08/29/12	WG	Dissolved Oxygen	5.09	mg/L	CAPU-12-22843
R-5 S2	372.8	03/09/11	WG	Dissolved Oxygen	4.77	mg/L	CAPU-11-5283
R-5 S2	372.8	07/22/09	WG	Dissolved Oxygen	7.79	mg/L	CAPU-09-11247
R-5 S2	372.8	01/14/09	WG	Dissolved Oxygen	7.59	mg/L	CAPU-09-1781
R-5 S2	372.8	08/26/08	WG	Dissolved Oxygen	8.6	mg/L	CAPU-08-14776
R-5 S2	372.8	08/29/12	WG	pH	8.81	SU	CAPU-12-22843
R-5 S2	372.8	03/09/11	WG	pH	8.16	SU	CAPU-11-5283
R-5 S2	372.8	07/22/09	WG	pH	7.47	SU	CAPU-09-11247
R-5 S2	372.8	01/14/09	WG	pH	7.88	SU	CAPU-09-1781
R-5 S2	372.8	08/26/08	WG	pH	8.29	SU	CAPU-08-14776
R-5 S2	372.8	08/29/12	WG	Specific Conductance	226	µS/cm	CAPU-12-22843
R-5 S2	372.8	03/09/11	WG	Specific Conductance	262	µS/cm	CAPU-11-5283
R-5 S2	372.8	07/22/09	WG	Specific Conductance	235	µS/cm	CAPU-09-11247
R-5 S2	372.8	01/14/09	WG	Specific Conductance	603	µS/cm	CAPU-09-1781
R-5 S2	372.8	08/26/08	WG	Specific Conductance	274	µS/cm	CAPU-08-14776
R-5 S2	372.8	08/29/12	WG	Temperature	23.75	deg C	CAPU-12-22843
R-5 S2	372.8	03/09/11	WG	Temperature	19.93	deg C	CAPU-11-5283
R-5 S2	372.8	07/22/09	WG	Temperature	20.22	deg C	CAPU-09-11247
R-5 S2	372.8	01/14/09	WG	Temperature	14.65	deg C	CAPU-09-1781
R-5 S2	372.8	08/26/08	WG	Temperature	21.2	deg C	CAPU-08-14776
R-5 S2	372.8	08/29/12	WG	Turbidity	1.7	NTU	CAPU-12-22843
R-5 S2	372.8	03/09/11	WG	Turbidity	6	NTU	CAPU-11-5283
R-5 S2	372.8	07/22/09	WG	Turbidity	0.91	NTU	CAPU-09-11247
R-5 S2	372.8	01/14/09	WG	Turbidity	2.52	NTU	CAPU-09-1781
R-5 S2	372.8	08/26/08	WG	Turbidity	81	NTU	CAPU-08-14776

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-5 S3	676.9	08/30/12	WG	Dissolved Oxygen	5.87	mg/L	CAPU-12-22841
R-5 S3	676.9	03/10/11	WG	Dissolved Oxygen	5.78	mg/L	CAPU-11-5301
R-5 S3	676.9	01/14/09	WG	Dissolved Oxygen	5.83	mg/L	CAPU-09-1795
R-5 S3	676.9	08/27/08	WG	Dissolved Oxygen	3.1	mg/L	CAPU-08-14801
R-5 S3	676.9	05/04/05	WG	Dissolved Oxygen	5.02	mg/L	FU0504G05R301
R-5 S3	676.9	08/30/12	WG	pH	7.27	SU	CAPU-12-22841
R-5 S3	676.9	03/10/11	WG	pH	7.94	SU	CAPU-11-5301
R-5 S3	676.9	01/14/09	WG	pH	7.22	SU	CAPU-09-1795
R-5 S3	676.9	08/27/08	WG	pH	8.37	SU	CAPU-08-14801
R-5 S3	676.9	07/17/07	WG	pH	8.13	SU	FU07070G05R301
R-5 S3	676.9	08/30/12	WG	Specific Conductance	258	µS/cm	CAPU-12-22841
R-5 S3	676.9	03/10/11	WG	Specific Conductance	264	µS/cm	CAPU-11-5301
R-5 S3	676.9	01/14/09	WG	Specific Conductance	499	µS/cm	CAPU-09-1795
R-5 S3	676.9	08/27/08	WG	Specific Conductance	254	µS/cm	CAPU-08-14801
R-5 S3	676.9	07/17/07	WG	Specific Conductance	120.3	µS/cm	FU07070G05R301
R-5 S3	676.9	08/30/12	WG	Temperature	23.21	deg C	CAPU-12-22841
R-5 S3	676.9	03/10/11	WG	Temperature	21.29	deg C	CAPU-11-5301
R-5 S3	676.9	01/14/09	WG	Temperature	19.92	deg C	CAPU-09-1795
R-5 S3	676.9	08/27/08	WG	Temperature	25.2	deg C	CAPU-08-14801
R-5 S3	676.9	07/17/07	WG	Temperature	26.9	deg C	FU07070G05R301
R-5 S3	676.9	08/30/12	WG	Turbidity	1.03	NTU	CAPU-12-22841
R-5 S3	676.9	03/10/11	WG	Turbidity	1.9	NTU	CAPU-11-5301
R-5 S3	676.9	01/14/09	WG	Turbidity	0.32	NTU	CAPU-09-1795
R-5 S3	676.9	08/27/08	WG	Turbidity	1.56	NTU	CAPU-08-14801
R-5 S3	676.9	07/17/07	WG	Turbidity	0.24	NTU	FU07070G05R301
R-5 S4	858.7	08/30/12	WG	Dissolved Oxygen	5.29	mg/L	CAPU-12-22842
R-5 S4	858.7	03/09/11	WG	Dissolved Oxygen	4.69	mg/L	CAPU-11-5304
R-5 S4	858.7	07/23/09	WG	Dissolved Oxygen	4.9	mg/L	CAPU-09-11255
R-5 S4	858.7	01/12/09	WG	Dissolved Oxygen	4.9	mg/L	CAPU-09-1805

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-5 S4	858.7	08/26/08	WG	Dissolved Oxygen	6.1	mg/L	CAPU-08-14851
R-5 S4	858.7	08/30/12	WG	pH	8.07	SU	CAPU-12-22842
R-5 S4	858.7	03/09/11	WG	pH	7.86	SU	CAPU-11-5304
R-5 S4	858.7	07/23/09	WG	pH	8.09	SU	CAPU-09-11255
R-5 S4	858.7	01/12/09	WG	pH	8.16	SU	CAPU-09-1805
R-5 S4	858.7	08/26/08	WG	pH	8.02	SU	CAPU-08-14851
R-5 S4	858.7	08/30/12	WG	Specific Conductance	260	µS/cm	CAPU-12-22842
R-5 S4	858.7	03/09/11	WG	Specific Conductance	251	µS/cm	CAPU-11-5304
R-5 S4	858.7	07/23/09	WG	Specific Conductance	124	µS/cm	CAPU-09-11255
R-5 S4	858.7	01/12/09	WG	Specific Conductance	242	µS/cm	CAPU-09-1805
R-5 S4	858.7	08/26/08	WG	Specific Conductance	250	µS/cm	CAPU-08-14851
R-5 S4	858.7	08/30/12	WG	Temperature	26.33	deg C	CAPU-12-22842
R-5 S4	858.7	03/09/11	WG	Temperature	21.47	deg C	CAPU-11-5304
R-5 S4	858.7	07/23/09	WG	Temperature	22.95	deg C	CAPU-09-11255
R-5 S4	858.7	01/12/09	WG	Temperature	20.08	deg C	CAPU-09-1805
R-5 S4	858.7	08/26/08	WG	Temperature	23.9	deg C	CAPU-08-14851
R-5 S4	858.7	08/30/12	WG	Turbidity	0.82	NTU	CAPU-12-22842
R-5 S4	858.7	03/09/11	WG	Turbidity	8.3	NTU	CAPU-11-5304
R-5 S4	858.7	07/23/09	WG	Turbidity	1.66	NTU	CAPU-09-11255
R-5 S4	858.7	01/12/09	WG	Turbidity	0.8	NTU	CAPU-09-1805
R-5 S4	858.7	08/26/08	WG	Turbidity	1.15	NTU	CAPU-08-14851
R-6	1205	08/27/12	WG	Dissolved Oxygen	6.01	mg/L	CALA-12-22819
R-6	1205	03/17/11	WG	Dissolved Oxygen	5.79	mg/L	CALA-11-5173
R-6	1205	01/08/10	WG	Dissolved Oxygen	4.71	mg/L	CALA-10-9179
R-6	1205	07/14/09	WG	Dissolved Oxygen	3.48	mg/L	CALA-09-11164
R-6	1205	01/20/09	WG	Dissolved Oxygen	4.32	mg/L	CALA-09-1759
R-6	1205	08/27/12	WG	Oxidation-Reduction Potential	135.2	mV	CALA-12-22819
R-6	1205	03/17/11	WG	Oxidation-Reduction Potential	104.1	mV	CALA-11-5173
R-6	1205	01/08/10	WG	Oxidation-Reduction Potential	223.3	mV	CALA-10-9179

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-6	1205	07/14/09	WG	Oxidation-Reduction Potential	204.5	mV	CALA-09-11164
R-6	1205	01/20/09	WG	Oxidation-Reduction Potential	219.8	mV	CALA-09-1759
R-6	1205	08/27/12	WG	pH	8.04	SU	CALA-12-22819
R-6	1205	03/17/11	WG	pH	8.24	SU	CALA-11-5173
R-6	1205	01/08/10	WG	pH	8.02	SU	CALA-10-9179
R-6	1205	07/14/09	WG	pH	8.14	SU	CALA-09-11164
R-6	1205	01/20/09	WG	pH	8.21	SU	CALA-09-1759
R-6	1205	08/27/12	WG	Specific Conductance	144	µS/cm	CALA-12-22819
R-6	1205	03/17/11	WG	Specific Conductance	150	µS/cm	CALA-11-5173
R-6	1205	01/08/10	WG	Specific Conductance	152	µS/cm	CALA-10-9179
R-6	1205	07/14/09	WG	Specific Conductance	153	µS/cm	CALA-09-11164
R-6	1205	01/20/09	WG	Specific Conductance	145	µS/cm	CALA-09-1759
R-6	1205	08/27/12	WG	Temperature	22.8	deg C	CALA-12-22819
R-6	1205	03/17/11	WG	Temperature	22.69	deg C	CALA-11-5173
R-6	1205	01/08/10	WG	Temperature	20.15	deg C	CALA-10-9179
R-6	1205	07/14/09	WG	Temperature	22.92	deg C	CALA-09-11164
R-6	1205	01/20/09	WG	Temperature	22.41	deg C	CALA-09-1759
R-6	1205	08/27/12	WG	Turbidity	0.48	NTU	CALA-12-22819
R-6	1205	03/17/11	WG	Turbidity	0.3	NTU	CALA-11-5173
R-6	1205	01/08/10	WG	Turbidity	0.69	NTU	CALA-10-9179
R-6	1205	07/14/09	WG	Turbidity	0.53	NTU	CALA-09-11164
R-6	1205	01/20/09	WG	Turbidity	0.35	NTU	CALA-09-1759
R-66	819.4	08/31/12	WG	Dissolved Oxygen	7.04	mg/L	CALA-12-22821
R-66	819.4	06/22/12	WG	Dissolved Oxygen	6.66	mg/L	CALA-12-17151
R-66	819.4	03/27/12	WG	Dissolved Oxygen	7.53	mg/L	CALA-12-12309
R-66	819.4	01/16/12	WG	Dissolved Oxygen	7.32	mg/L	CALA-12-2110
R-66	819.4	08/31/12	WG	Oxidation-Reduction Potential	177	mV	CALA-12-22821
R-66	819.4	06/22/12	WG	Oxidation-Reduction Potential	165.2	mV	CALA-12-17151
R-66	819.4	03/27/12	WG	Oxidation-Reduction Potential	2.4	mV	CALA-12-12309

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-66	819.4	01/16/12	WG	Oxidation-Reduction Potential	25.8	mV	CALA-12-2110
R-66	819.4	08/31/12	WG	pH	7.75	SU	CALA-12-22821
R-66	819.4	06/22/12	WG	pH	7.73	SU	CALA-12-17151
R-66	819.4	03/27/12	WG	pH	7.83	SU	CALA-12-12309
R-66	819.4	01/16/12	WG	pH	7.47	SU	CALA-12-2110
R-66	819.4	08/31/12	WG	Specific Conductance	189	µS/cm	CALA-12-22821
R-66	819.4	06/22/12	WG	Specific Conductance	191	µS/cm	CALA-12-17151
R-66	819.4	03/27/12	WG	Specific Conductance	193	µS/cm	CALA-12-12309
R-66	819.4	01/16/12	WG	Specific Conductance	207	µS/cm	CALA-12-2110
R-66	819.4	08/31/12	WG	Temperature	23.64	deg C	CALA-12-22821
R-66	819.4	06/22/12	WG	Temperature	24.6	deg C	CALA-12-17151
R-66	819.4	03/27/12	WG	Temperature	19.31	deg C	CALA-12-12309
R-66	819.4	01/16/12	WG	Temperature	23.19	deg C	CALA-12-2110
R-66	819.4	08/31/12	WG	Turbidity	0.45	NTU	CALA-12-22821
R-66	819.4	06/22/12	WG	Turbidity	1.69	NTU	CALA-12-17151
R-66	819.4	03/27/12	WG	Turbidity	0.57	NTU	CALA-12-12309
R-66	819.4	01/16/12	WG	Turbidity	1.06	NTU	CALA-12-2110
R-6i	602	08/27/12	WG	Dissolved Oxygen	7.31	mg/L	CALA-12-22822
R-6i	602	03/17/11	WG	Dissolved Oxygen	7.29	mg/L	CALA-11-5165
R-6i	602	08/19/10	WG	Dissolved Oxygen	6.77	mg/L	CALA-10-25228
R-6i	602	01/08/10	WG	Dissolved Oxygen	7.05	mg/L	CALA-10-9177
R-6i	602	07/14/09	WG	Dissolved Oxygen	6.76	mg/L	CALA-09-11157
R-6i	602	08/27/12	WG	Oxidation-Reduction Potential	93.2	mV	CALA-12-22822
R-6i	602	03/17/11	WG	Oxidation-Reduction Potential	83.1	mV	CALA-11-5165
R-6i	602	08/19/10	WG	Oxidation-Reduction Potential	371.9	mV	CALA-10-25228
R-6i	602	01/08/10	WG	Oxidation-Reduction Potential	266.8	mV	CALA-10-9177
R-6i	602	07/14/09	WG	Oxidation-Reduction Potential	383.2	mV	CALA-09-11157
R-6i	602	08/27/12	WG	pH	7.31	SU	CALA-12-22822
R-6i	602	03/17/11	WG	pH	7.44	SU	CALA-11-5165

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-6i	602	08/19/10	WG	pH	7.17	SU	CALA-10-25228
R-6i	602	01/08/10	WG	pH	7.27	SU	CALA-10-9177
R-6i	602	07/14/09	WG	pH	6.94	SU	CALA-09-11157
R-6i	602	08/27/12	WG	Specific Conductance	240	µS/cm	CALA-12-22822
R-6i	602	03/17/11	WG	Specific Conductance	244	µS/cm	CALA-11-5165
R-6i	602	08/19/10	WG	Specific Conductance	207	µS/cm	CALA-10-25228
R-6i	602	01/08/10	WG	Specific Conductance	240	µS/cm	CALA-10-9177
R-6i	602	07/14/09	WG	Specific Conductance	224	µS/cm	CALA-09-11157
R-6i	602	08/27/12	WG	Temperature	17.31	deg C	CALA-12-22822
R-6i	602	03/17/11	WG	Temperature	17.35	deg C	CALA-11-5165
R-6i	602	08/19/10	WG	Temperature	17.47	deg C	CALA-10-25228
R-6i	602	01/08/10	WG	Temperature	15.47	deg C	CALA-10-9177
R-6i	602	07/14/09	WG	Temperature	17.88	deg C	CALA-09-11157
R-6i	602	08/27/12	WG	Turbidity	0.51	NTU	CALA-12-22822
R-6i	602	03/17/11	WG	Turbidity	0.4	NTU	CALA-11-5165
R-6i	602	08/19/10	WG	Turbidity	0.15	NTU	CALA-10-25228
R-6i	602	01/08/10	WG	Turbidity	0.49	NTU	CALA-10-9177
R-6i	602	07/14/09	WG	Turbidity	0.63	NTU	CALA-09-11157
R-8 S1	705.31	09/04/12	WG	Dissolved Oxygen	6.3	mg/L	CALA-12-22895
R-8 S1	705.31	03/16/11	WG	Dissolved Oxygen	4.07	mg/L	CALA-11-5178
R-8 S1	705.31	01/08/09	WG	Dissolved Oxygen	5.3	mg/L	CALA-09-1761
R-8 S1	705.31	09/04/08	WG	Dissolved Oxygen	4.68	mg/L	CALA-08-13906
R-8 S1	705.31	01/16/08	WG	Dissolved Oxygen	9.1	mg/L	CALA-08-9947
R-8 S1	705.31	09/04/12	WG	pH	8.09	SU	CALA-12-22895
R-8 S1	705.31	03/16/11	WG	pH	8.42	SU	CALA-11-5178
R-8 S1	705.31	01/08/09	WG	pH	8.41	SU	CALA-09-1761
R-8 S1	705.31	09/04/08	WG	pH	8.29	SU	CALA-08-13906
R-8 S1	705.31	01/16/08	WG	pH	8.41	SU	CALA-08-9947
R-8 S1	705.31	09/04/12	WG	Specific Conductance	150	µS/cm	CALA-12-22895

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-8 S1	705.31	03/16/11	WG	Specific Conductance	168	µS/cm	CALA-11-5178
R-8 S1	705.31	01/08/09	WG	Specific Conductance	260	µS/cm	CALA-09-1761
R-8 S1	705.31	09/04/08	WG	Specific Conductance	146.7	µS/cm	CALA-08-13906
R-8 S1	705.31	01/16/08	WG	Specific Conductance	136.3	µS/cm	CALA-08-9947
R-8 S1	705.31	09/04/12	WG	Temperature	23.05	deg C	CALA-12-22895
R-8 S1	705.31	03/16/11	WG	Temperature	20.74	deg C	CALA-11-5178
R-8 S1	705.31	01/08/09	WG	Temperature	17.77	deg C	CALA-09-1761
R-8 S1	705.31	09/04/08	WG	Temperature	21.5	deg C	CALA-08-13906
R-8 S1	705.31	01/16/08	WG	Temperature	17.3	deg C	CALA-08-9947
R-8 S1	705.31	09/04/12	WG	Turbidity	0.68	NTU	CALA-12-22895
R-8 S1	705.31	03/16/11	WG	Turbidity	4.1	NTU	CALA-11-5178
R-8 S1	705.31	01/08/09	WG	Turbidity	1.01	NTU	CALA-09-1761
R-8 S1	705.31	09/04/08	WG	Turbidity	0.2	NTU	CALA-08-13906
R-8 S1	705.31	01/16/08	WG	Turbidity	0.65	NTU	CALA-08-9947
R-8 S2	821	09/05/12	WG	Dissolved Oxygen	4.81	mg/L	CALA-12-22896
R-8 S2	821	03/16/11	WG	Dissolved Oxygen	5.6	mg/L	CALA-11-5183
R-8 S2	821	07/09/09	WG	Dissolved Oxygen	7.87	mg/L	CALA-09-11176
R-8 S2	821	01/08/09	WG	Dissolved Oxygen	9.57	mg/L	CALA-09-1749
R-8 S2	821	09/03/08	WG	Dissolved Oxygen	4.39	mg/L	CALA-08-13908
R-8 S2	821	09/05/12	WG	pH	8.76	SU	CALA-12-22896
R-8 S2	821	03/16/11	WG	pH	8.82	SU	CALA-11-5183
R-8 S2	821	07/09/09	WG	pH	8.59	SU	CALA-09-11176
R-8 S2	821	01/08/09	WG	pH	8.41	SU	CALA-09-1749
R-8 S2	821	09/03/08	WG	pH	8.75	SU	CALA-08-13908
R-8 S2	821	09/05/12	WG	Specific Conductance	186	µS/cm	CALA-12-22896
R-8 S2	821	03/16/11	WG	Specific Conductance	200	µS/cm	CALA-11-5183
R-8 S2	821	07/09/09	WG	Specific Conductance	123	µS/cm	CALA-09-11176
R-8 S2	821	01/08/09	WG	Specific Conductance	366	µS/cm	CALA-09-1749
R-8 S2	821	09/03/08	WG	Specific Conductance	189.1	µS/cm	CALA-08-13908

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-8 S2	821	09/05/12	WG	Temperature	21.62	deg C	CALA-12-22896
R-8 S2	821	03/16/11	WG	Temperature	21.93	deg C	CALA-11-5183
R-8 S2	821	07/09/09	WG	Temperature	23.81	deg C	CALA-09-11176
R-8 S2	821	01/08/09	WG	Temperature	15.07	deg C	CALA-09-1749
R-8 S2	821	09/03/08	WG	Temperature	21.2	deg C	CALA-08-13908
R-8 S2	821	09/05/12	WG	Turbidity	0.84	NTU	CALA-12-22896
R-8 S2	821	03/16/11	WG	Turbidity	2.7	NTU	CALA-11-5183
R-8 S2	821	07/09/09	WG	Turbidity	3.86	NTU	CALA-09-11176
R-8 S2	821	01/08/09	WG	Turbidity	5.03	NTU	CALA-09-1749
R-8 S2	821	09/03/08	WG	Turbidity	0.41	NTU	CALA-08-13908
R-9	683	09/06/12	WG	Dissolved Oxygen	5.62	mg/L	CALA-12-22897
R-9	683	03/07/11	WG	Dissolved Oxygen	5.98	mg/L	CALA-11-5175
R-9	683	03/07/11	WG	Dissolved Oxygen	5.98	mg/L	CALA-11-5176
R-9	683	07/13/09	WG	Dissolved Oxygen	5.13	mg/L	CALA-09-11165
R-9	683	01/08/09	WG	Dissolved Oxygen	5.05	mg/L	CALA-09-1764
R-9	683	08/26/08	WG	Dissolved Oxygen	4.45	mg/L	CALA-08-13913
R-9	683	09/06/12	WG	Oxidation-Reduction Potential	204.9	mV	CALA-12-22897
R-9	683	03/07/11	WG	Oxidation-Reduction Potential	170.3	mV	CALA-11-5175
R-9	683	03/07/11	WG	Oxidation-Reduction Potential	170.3	mV	CALA-11-5176
R-9	683	07/13/09	WG	Oxidation-Reduction Potential	293.7	mV	CALA-09-11165
R-9	683	01/08/09	WG	Oxidation-Reduction Potential	421.5	mV	CALA-09-1764
R-9	683	08/26/08	WG	Oxidation-Reduction Potential	202	mV	CALA-08-13913
R-9	683	09/06/12	WG	pH	8.06	SU	CALA-12-22897
R-9	683	03/07/11	WG	pH	8.09	SU	CALA-11-5175
R-9	683	03/07/11	WG	pH	8.09	SU	CALA-11-5176
R-9	683	07/13/09	WG	pH	7.9	SU	CALA-09-11165
R-9	683	01/08/09	WG	pH	7.84	SU	CALA-09-1764
R-9	683	08/26/08	WG	pH	8.04	SU	CALA-08-13913
R-9	683	09/06/12	WG	Specific Conductance	254	µS/cm	CALA-12-22897

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-9	683	03/07/11	WG	Specific Conductance	254	µS/cm	CALA-11-5175
R-9	683	03/07/11	WG	Specific Conductance	254	µS/cm	CALA-11-5176
R-9	683	07/13/09	WG	Specific Conductance	237	µS/cm	CALA-09-11165
R-9	683	01/08/09	WG	Specific Conductance	496	µS/cm	CALA-09-1764
R-9	683	08/26/08	WG	Specific Conductance	214	µS/cm	CALA-08-13913
R-9	683	09/06/12	WG	Temperature	22.19	deg C	CALA-12-22897
R-9	683	03/07/11	WG	Temperature	20.71	deg C	CALA-11-5175
R-9	683	03/07/11	WG	Temperature	20.71	deg C	CALA-11-5176
R-9	683	07/13/09	WG	Temperature	22.59	deg C	CALA-09-11165
R-9	683	01/08/09	WG	Temperature	21.58	deg C	CALA-09-1764
R-9	683	08/26/08	WG	Temperature	22.7	deg C	CALA-08-13913
R-9	683	09/06/12	WG	Turbidity	0.48	NTU	CALA-12-22897
R-9	683	03/07/11	WG	Turbidity	0.2	NTU	CALA-11-5175
R-9	683	03/07/11	WG	Turbidity	0.2	NTU	CALA-11-5176
R-9	683	07/13/09	WG	Turbidity	0.43	NTU	CALA-09-11165
R-9	683	01/08/09	WG	Turbidity	1	NTU	CALA-09-1764
R-9	683	08/26/08	WG	Turbidity	0.42	NTU	CALA-08-13913
R-9i S1	189.1	09/06/12	WG	Dissolved Oxygen	4.82	mg/L	CALA-12-22898
R-9i S1	189.1	03/17/11	WG	Dissolved Oxygen	4.49	mg/L	CALA-11-5106
R-9i S1	189.1	08/23/10	WG	Dissolved Oxygen	7.29	mg/L	CALA-10-25201
R-9i S1	189.1	01/08/10	WG	Dissolved Oxygen	6.58	mg/L	CALA-10-9149
R-9i S1	189.1	07/08/09	WG	Dissolved Oxygen	4.66	mg/L	CALA-09-11139
R-9i S1	189.1	09/06/12	WG	pH	7.18	SU	CALA-12-22898
R-9i S1	189.1	03/17/11	WG	pH	7.75	SU	CALA-11-5106
R-9i S1	189.1	08/23/10	WG	pH	8.06	SU	CALA-10-25201
R-9i S1	189.1	01/08/10	WG	pH	8.08	SU	CALA-10-9149
R-9i S1	189.1	07/08/09	WG	pH	7.57	SU	CALA-09-11139
R-9i S1	189.1	09/06/12	WG	Specific Conductance	328	µS/cm	CALA-12-22898
R-9i S1	189.1	03/17/11	WG	Specific Conductance	327	µS/cm	CALA-11-5106

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-9i S1	189.1	08/23/10	WG	Specific Conductance	301	µS/cm	CALA-10-25201
R-9i S1	189.1	01/08/10	WG	Specific Conductance	296	µS/cm	CALA-10-9149
R-9i S1	189.1	07/08/09	WG	Specific Conductance	242	µS/cm	CALA-09-11139
R-9i S1	189.1	09/06/12	WG	Temperature	17.46	deg C	CALA-12-22898
R-9i S1	189.1	03/17/11	WG	Temperature	16.15	deg C	CALA-11-5106
R-9i S1	189.1	08/23/10	WG	Temperature	18.19	deg C	CALA-10-25201
R-9i S1	189.1	01/08/10	WG	Temperature	12.54	deg C	CALA-10-9149
R-9i S1	189.1	07/08/09	WG	Temperature	18.31	deg C	CALA-09-11139
R-9i S1	189.1	09/06/12	WG	Turbidity	3.02	NTU	CALA-12-22898
R-9i S1	189.1	03/17/11	WG	Turbidity	3.7	NTU	CALA-11-5106
R-9i S1	189.1	08/23/10	WG	Turbidity	3.17	NTU	CALA-10-25201
R-9i S1	189.1	01/08/10	WG	Turbidity	1.09	NTU	CALA-10-9149
R-9i S1	189.1	07/08/09	WG	Turbidity	1.26	NTU	CALA-09-11139
R-9i S2	269.6	09/06/12	WG	Dissolved Oxygen	5.13	mg/L	CALA-12-22899
R-9i S2	269.6	03/18/11	WG	Dissolved Oxygen	3.61	mg/L	CALA-11-5110
R-9i S2	269.6	08/24/10	WG	Dissolved Oxygen	6.77	mg/L	CALA-10-25204
R-9i S2	269.6	01/08/10	WG	Dissolved Oxygen	5.88	mg/L	CALA-10-9154
R-9i S2	269.6	07/08/09	WG	Dissolved Oxygen	5.79	mg/L	CALA-09-11146
R-9i S2	269.6	09/06/12	WG	pH	8.6	SU	CALA-12-22899
R-9i S2	269.6	03/18/11	WG	pH	9.01	SU	CALA-11-5110
R-9i S2	269.6	08/24/10	WG	pH	8.69	SU	CALA-10-25204
R-9i S2	269.6	01/08/10	WG	pH	8.08	SU	CALA-10-9154
R-9i S2	269.6	07/08/09	WG	pH	8.76	SU	CALA-09-11146
R-9i S2	269.6	09/06/12	WG	Specific Conductance	222	µS/cm	CALA-12-22899
R-9i S2	269.6	03/18/11	WG	Specific Conductance	223	µS/cm	CALA-11-5110
R-9i S2	269.6	08/24/10	WG	Specific Conductance	197	µS/cm	CALA-10-25204
R-9i S2	269.6	01/08/10	WG	Specific Conductance	205	µS/cm	CALA-10-9154
R-9i S2	269.6	07/08/09	WG	Specific Conductance	169	µS/cm	CALA-09-11146
R-9i S2	269.6	09/06/12	WG	Temperature	17.49	deg C	CALA-12-22899

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-9i S2	269.6	03/18/11	WG	Temperature	14.2	deg C	CALA-11-5110
R-9i S2	269.6	08/24/10	WG	Temperature	15.49	deg C	CALA-10-25204
R-9i S2	269.6	01/08/10	WG	Temperature	12.16	deg C	CALA-10-9154
R-9i S2	269.6	07/08/09	WG	Temperature	18.82	deg C	CALA-09-11146
R-9i S2	269.6	09/06/12	WG	Turbidity	1.81	NTU	CALA-12-22899
R-9i S2	269.6	03/18/11	WG	Turbidity	4.1	NTU	CALA-11-5110
R-9i S2	269.6	08/24/10	WG	Turbidity	0.75	NTU	CALA-10-25204
R-9i S2	269.6	01/08/10	WG	Turbidity	0.45	NTU	CALA-10-9154
R-9i S2	269.6	07/08/09	WG	Turbidity	0.99	NTU	CALA-09-11146
TA-53i	600	08/27/12	WG	Dissolved Oxygen	7.92	mg/L	CALA-12-22823
TA-53i	600	03/18/11	WG	Dissolved Oxygen	7.82	mg/L	CALA-11-5168
TA-53i	600	08/25/10	WG	Dissolved Oxygen	6.69	mg/L	CALA-10-25207
TA-53i	600	01/07/10	WG	Dissolved Oxygen	8.36	mg/L	CALA-10-9193
TA-53i	600	11/30/09	WG	Dissolved Oxygen	6.34	mg/L	CALA-10-6870
TA-53i	600	08/27/12	WG	Oxidation-Reduction Potential	-65.2	mV	CALA-12-22823
TA-53i	600	03/18/11	WG	Oxidation-Reduction Potential	90	mV	CALA-11-5168
TA-53i	600	01/07/10	WG	Oxidation-Reduction Potential	229	mV	CALA-10-9193
TA-53i	600	11/30/09	WG	Oxidation-Reduction Potential	57.5	mV	CALA-10-6870
TA-53i	600	07/20/09	WG	Oxidation-Reduction Potential	117.7	mV	CALA-09-11335
TA-53i	600	08/27/12	WG	pH	9.3	SU	CALA-12-22823
TA-53i	600	03/18/11	WG	pH	7.05	SU	CALA-11-5168
TA-53i	600	08/25/10	WG	pH	6.83	SU	CALA-10-25207
TA-53i	600	01/07/10	WG	pH	6.59	SU	CALA-10-9193
TA-53i	600	11/30/09	WG	pH	6.64	SU	CALA-10-6870
TA-53i	600	08/27/12	WG	Specific Conductance	326	µS/cm	CALA-12-22823
TA-53i	600	03/18/11	WG	Specific Conductance	357	µS/cm	CALA-11-5168
TA-53i	600	08/25/10	WG	Specific Conductance	288	µS/cm	CALA-10-25207
TA-53i	600	01/07/10	WG	Specific Conductance	327	µS/cm	CALA-10-9193
TA-53i	600	11/30/09	WG	Specific Conductance	318	µS/cm	CALA-10-6870

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
TA-53i	600	08/27/12	WG	Temperature	15.86	deg C	CALA-12-22823
TA-53i	600	03/18/11	WG	Temperature	15.14	deg C	CALA-11-5168
TA-53i	600	08/25/10	WG	Temperature	16.17	deg C	CALA-10-25207
TA-53i	600	01/07/10	WG	Temperature	12.38	deg C	CALA-10-9193
TA-53i	600	11/30/09	WG	Temperature	15.07	deg C	CALA-10-6870
TA-53i	600	08/27/12	WG	Turbidity	2.04	NTU	CALA-12-22823
TA-53i	600	03/18/11	WG	Turbidity	2.4	NTU	CALA-11-5168
TA-53i	600	08/25/10	WG	Turbidity	2.49	NTU	CALA-10-25207
TA-53i	600	01/07/10	WG	Turbidity	4.31	NTU	CALA-10-9193
TA-53i	600	11/30/09	WG	Turbidity	3.36	NTU	CALA-10-6870

[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-21 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-64	1285	06/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.07	—	—	0.01	SU	Y	H	NQ	12-1374	CALA-12-17152	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.09	—	—	0.01	SU	Y	H	NQ	12-1374	CALA-12-17147	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.13	—	—	0.01	SU	Y	H	NQ	12-1150	CALA-12-12314	GELC
R-64	1285	03/26/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.16	—	—	0.01	SU	Y	H	NQ	12-1150	CALA-12-12310	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.11	—	—	0.01	SU	Y	H	J-	12-491	CALA-12-1770	GELC
R-64	1285	12/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.95	—	—	0.01	SU	Y	H	J-	12-491	CALA-12-1767	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.06	—	—	0.01	SU	Y	H	J-	11-3447	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.2	—	—	0.725	mg/L	Y	—	NQ	12-1374	CALA-12-17152	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	57.2	—	—	0.725	mg/L	Y	—	NQ	12-1374	CALA-12-17147	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	63.6	—	—	0.725	mg/L	Y	—	NQ	12-1150	CALA-12-12314	GELC
R-64	1285	03/26/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.2	—	—	0.725	mg/L	Y	—	NQ	12-1150	CALA-12-12310	GELC
R-64	1285	12/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66.6	—	—	0.73	mg/L	Y	—	NQ	12-491	CALA-12-1767	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	70.7	—	—	0.73	mg/L	Y	—	NQ	12-491	CALA-12-1770	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.3	—	—	0.73	mg/L	Y	—	NQ	11-3447	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.48	—	—	0.067	mg/L	Y	—	NQ	12-1374	CALA-12-17152	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.5	—	—	0.067	mg/L	Y	—	NQ	12-1374	CALA-12-17147	GELC
R-64	1285	03/26/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.62	—	—	0.066	mg/L	Y	—	NQ	12-1150	CALA-12-12310	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.62	—	—	0.066	mg/L	Y	—	NQ	12-1150	CALA-12-12314	GELC
R-64	1285	12/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.92	—	—	0.066	mg/L	Y	—	NQ	12-491	CALA-12-1767	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.89	—	—	0.066	mg/L	Y	—	NQ	12-491	CALA-12-1770	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.77	—	—	0.066	mg/L	Y	—	NQ	11-3447	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.383	—	—	0.033	mg/L	Y	—	NQ	12-1374	CALA-12-17147	GELC
R-64	1285	06/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.38	—	—	0.033	mg/L	Y	—	NQ	12-1374	CALA-12-17152	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.422	—	—	0.033	mg/L	Y	—	NQ	12-1150	CALA-12-12314	GELC
R-64	1285	03/26/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.42	—	—	0.033	mg/L	Y	—	NQ	12-1150	CALA-12-12310	GELC
R-64	1285	12/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.388	—	—	0.033	mg/L	Y	—	NQ	12-491	CALA-12-1767	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.407	—	—	0.033	mg/L	Y	—	NQ	12-491	CALA-12-1770	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.384	—	—	0.033	mg/L	Y	—	NQ	11-3447	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	F	RE	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.306	—	—	0.085	mg/L	Y	H	NQ	12-1374-1	CALA-12-17152	GELC
R-64	1285	06/18/12	WG	F	RE	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.23	—	—	0.085	mg/L	Y	HJ	NQ	12-1374-1	CALA-12-17147	GELC
R-64	1285	06/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.57	—	—	0.085	mg/L	N	—	R	12-1374	CALA-12-17152	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.05	—	—	0.085	mg/L	N	—	R	12-1374	CALA-12-17147	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.406	—	—	0.05	mg/L	Y	—	NQ	12-1150	CALA-12-12314	GELC
R-64	1285	03/26/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.535	—	—	0.05	mg/L	Y	—	NQ	12-1150	CALA-12-12310	GELC
R-64	1285	12/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.152	—	—	0.01	mg/L	Y	—	NQ	12-491	CALA-12-1767	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.12	—	—	0.01	mg/L	Y	—	NQ	12-491	CALA-12-1770	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.479	—	—	0.1	mg/L	Y	J	J	11-3447	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	119	—	—	1	µS/cm	Y	—	NQ	12-1374	CALA-12-17147	GELC
R-64	1285	06/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	121	—	—	1	µS/cm	Y	—	NQ	12-1374	CALA-12-17152	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	1370	—	—	1	µS/cm	Y	—	NQ	12-1150	CALA-12-12314	GELC
R-64	1285	03/26/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	136	—	—	1	µS/cm	Y	—	NQ	12-1150	CALA-12-12310	GELC
R-64	1285	12/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	148	—	—	1	µS/cm	Y	—	NQ	12-491	CALA-12-1767	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	143	—	—	1	µS/cm	Y	—	NQ	12-491	CALA-12-1770	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	126	—	—	1	µS/cm	Y	—	NQ	11-3447	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.12	—	—	0.133	mg/L	Y	—	NQ	12-1374	CALA-12-17147	GELC
R-64	1285	06/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.11	—	—	0.133	mg/L	Y	—	NQ	12-1374	CALA-12-17152	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.55	—	—	0.1	mg/L	Y	—	NQ	12-1150	CALA-12-12314	GELC
R-64	1285	03/26/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.55	—	—	0.1	mg/L	Y	—	NQ	12-1150	CALA-12-12310	GELC
R-64	1285	12/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.87	—	—	0.1	mg/L	Y	—	NQ	12-491	CALA-12-1767	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.41	—	—	0.1	mg/L	Y	—	NQ	12-491	CALA-12-1770	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.45	—	—	0.1	mg/L	Y	—	NQ	11-3447	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	110	—	—	3.4	mg/L	Y	—	NQ	12-1374	CALA-12-17152	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	110	—	—	3.4	mg/L	Y	—	NQ	12-1374	CALA-12-17147	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	169	—	—	3.4	mg/L	Y	—	NQ	12-1150	CALA-12-12314	GELC
R-64	1285	03/26/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	136	—	—	3.4	mg/L	Y	—	NQ	12-1150	CALA-12-12310	GELC

Table C-1 TA-21 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-64	1285	12/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	129	—	—	3.4	mg/L	Y	—	NQ	12-491	CALA-12-1767	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	123	—	—	3.4	mg/L	Y	—	NQ	12-491	CALA-12-1770	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	116	—	—	3.4	mg/L	Y	—	NQ	11-3447	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.458	—	—	0.33	mg/L	Y	J	J	12-1374	CALA-12-17146	GELC
R-64	1285	06/18/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.449	—	—	0.33	mg/L	Y	J	J	12-1374	CALA-12-17150	GELC
R-64	1285	03/26/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.647	—	—	0.33	mg/L	Y	J	J-	12-1150	CALA-12-12317	GELC
R-64	1285	03/26/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.73	—	—	0.33	mg/L	Y	J	J-	12-1150	CALA-12-12308	GELC
R-64	1285	12/08/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	2.23	—	—	0.33	mg/L	Y	—	U	12-492	CALA-12-1766	GELC
R-64	1285	12/08/11	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	2.2	—	—	0.33	mg/L	Y	—	U	12-492	CALA-12-1771	GELC
R-64	1285	09/06/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-3450	CALA-11-26335	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.133	—	—	0.017	mg/L	Y	—	NQ	12-1374	CALA-12-17147	GELC
R-64	1285	06/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.192	—	—	0.017	mg/L	Y	—	J	12-1374	CALA-12-17152	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.117	—	—	0.017	mg/L	Y	—	U	12-1150	CALA-12-12314	GELC
R-64	1285	03/26/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0854	—	—	0.017	mg/L	Y	—	U	12-1150	CALA-12-12310	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0604	—	—	0.015	mg/L	Y	—	U	12-491	CALA-12-1770	GELC
R-64	1285	12/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0508	—	—	0.015	mg/L	Y	—	U	12-491	CALA-12-1767	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.343	—	—	0.015	mg/L	Y	—	NQ	11-3447	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	16.2	—	—	1	µg/L	Y	—	NQ	12-1374	CALA-12-17152	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	16	—	—	1	µg/L	Y	—	NQ	12-1374	CALA-12-17147	GELC
R-64	1285	03/26/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	13.3	—	—	1	µg/L	Y	—	NQ	12-1150	CALA-12-12310	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	13.5	—	—	1	µg/L	Y	—	NQ	12-1150	CALA-12-12314	GELC
R-64	1285	12/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	14.8	—	—	1	µg/L	Y	—	NQ	12-491	CALA-12-1767	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	20	—	—	1	µg/L	Y	—	NQ	12-491	CALA-12-1770	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	17.2	—	—	1	µg/L	Y	—	NQ	11-3451	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	8.28	—	—	0.05	mg/L	Y	—	NQ	12-1374	CALA-12-17152	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	8.3	—	—	0.05	mg/L	Y	—	NQ	12-1374	CALA-12-17147	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	6.33	—	—	0.05	mg/L	Y	—	NQ	12-1150	CALA-12-12314	GELC
R-64	1285	03/26/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	6.16	—	—	0.05	mg/L	Y	—	NQ	12-1150	CALA-12-12310	GELC
R-64	1285	12/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	6.9	—	—	0.05	mg/L	Y	—	NQ	12-491	CALA-12-1767	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	7.19	—	—	0.05	mg/L	Y	—	NQ	12-491	CALA-12-1770	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	8.67	—	—	0.05	mg/L	Y	—	NQ	11-3451	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.64	—	—	2	µg/L	Y	J	J	12-1374	CALA-12-17147	GELC
R-64	1285	06/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.25	—	—	2	µg/L	Y	J	J	12-1374	CALA-12-17152	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	2.1	—	—	2	µg/L	Y	J	U	12-1150	CALA-12-12314	GELC
R-64	1285	03/26/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	2.49	—	—	2	µg/L	Y	J	U	12-1150	CALA-12-12310	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	12-491	CALA-12-1770	GELC
R-64	1285	12/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	12-491	CALA-12-1767	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.02	—	—	2	µg/L	Y	J	J	11-3451	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	31.3	—	—	0.453	mg/L	Y	—	NQ	12-1374	CALA-12-17147	GELC
R-64	1285	06/18/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	31.2	—	—	0.453	mg/L	Y	—	NQ	12-1374	CALA-12-17152	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	23.8	—	—	0.453	mg/L	Y	—	NQ	12-1150	CALA-12-12314	GELC
R-64	1285	03/26/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	23.1	—	—	0.453	mg/L	Y	—	NQ	12-1150	CALA-12-12310	GELC
R-64	1285	12/08/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	25.6	—	—	0.45	mg/L	Y	—	NQ	12-491	CALA-12-1767	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	26.6	—	—	0.45	mg/L	Y	—	NQ	12-491	CALA-12-1770	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	33	—	—	0.45	mg/L	Y	—	NQ	11-3451	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.57	—	—	0.11	mg/L	Y	—	NQ	12-1374	CALA-12-17152	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.57	—	—	0.11	mg/L	Y	—	NQ	12-1374	CALA-12-17147	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.93	—	—	0.11	mg/L	Y	—	NQ	12-1150	CALA-12-12314	GELC
R-64	1285	03/26/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.88	—	—	0.11	mg/L	Y	—	NQ	12-1150	CALA-12-12310	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.1	—	—	0.11	mg/L	Y	—	NQ	12-491	CALA-12-1770	GELC
R-64	1285	12/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.03	—	—	0.11	mg/L	Y	—	NQ	12-491	CALA-12-1767	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.75	—	—	0.11	mg/L	Y	—	NQ	11-3451	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Manganese	Mn	Y	3.64	—	—	2	µg/L	Y	J	J	12-1374	CALA-12-17147	GELC
R-64	1285	06/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	2.88	—	—	2	µg/L	Y	J	J	12-1374	CALA-12-17152	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Manganese	Mn	Y	11.7	—	—	2	µg/L	Y	—	NQ	12-1150	CALA-12-12314	GELC

Table C-1 TA-21 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-64	1285	03/26/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	14	—	—	2	µg/L	Y	—	NQ	12-1150	CALA-12-12310	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Manganese	Mn	Y	13.3	—	—	2	µg/L	Y	—	NQ	12-491	CALA-12-1770	GELC
R-64	1285	12/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	13	—	—	2	µg/L	Y	—	NQ	12-491	CALA-12-1767	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	6.1	—	—	2	µg/L	Y	J	J	11-3451	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.833	—	—	0.165	µg/L	Y	—	NQ	12-1374	CALA-12-17147	GELC
R-64	1285	06/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.882	—	—	0.165	µg/L	Y	—	NQ	12-1374	CALA-12-17152	GELC
R-64	1285	03/26/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.13	—	—	0.165	µg/L	Y	—	NQ	12-1150	CALA-12-12310	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.13	—	—	0.165	µg/L	Y	—	NQ	12-1150	CALA-12-12314	GELC
R-64	1285	12/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.36	—	—	0.17	µg/L	Y	—	NQ	12-491	CALA-12-1767	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.16	—	—	0.17	µg/L	Y	—	NQ	12-491	CALA-12-1770	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.81	—	—	0.17	µg/L	Y	—	NQ	11-3451	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.02	—	—	0.05	mg/L	Y	—	NQ	12-1374	CALA-12-17152	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.01	—	—	0.05	mg/L	Y	—	NQ	12-1374	CALA-12-17147	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	0.832	—	—	0.05	mg/L	Y	—	NQ	12-1150	CALA-12-12314	GELC
R-64	1285	03/26/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	0.819	—	—	0.05	mg/L	Y	—	NQ	12-1150	CALA-12-12310	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.13	—	—	0.05	mg/L	Y	—	NQ	12-491	CALA-12-1770	GELC
R-64	1285	12/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.1	—	—	0.05	mg/L	Y	—	NQ	12-491	CALA-12-1767	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	0.93	—	—	0.05	mg/L	Y	—	NQ	11-3451	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	66.4	—	—	0.053	mg/L	Y	—	NQ	12-1374	CALA-12-17147	GELC
R-64	1285	06/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	66.7	—	—	0.053	mg/L	Y	—	NQ	12-1374	CALA-12-17152	GELC
R-64	1285	03/26/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	65.5	—	—	0.053	mg/L	Y	—	NQ	12-1150	CALA-12-12310	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67.4	—	—	0.053	mg/L	Y	—	NQ	12-1150	CALA-12-12314	GELC
R-64	1285	12/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	66.5	—	—	0.053	mg/L	Y	—	NQ	12-491	CALA-12-1767	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	68.3	—	—	0.053	mg/L	Y	—	NQ	12-491	CALA-12-1770	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	70.2	—	—	0.053	mg/L	Y	—	NQ	11-3447	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	15	—	—	0.1	mg/L	Y	—	NQ	12-1374	CALA-12-17147	GELC
R-64	1285	06/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15	—	—	0.1	mg/L	Y	—	NQ	12-1374	CALA-12-17152	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	20.8	—	—	0.1	mg/L	Y	—	NQ	12-1150	CALA-12-12314	GELC
R-64	1285	03/26/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	20.3	—	—	0.1	mg/L	Y	—	NQ	12-1150	CALA-12-12310	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	21.1	—	—	0.1	mg/L	Y	—	NQ	12-491	CALA-12-1770	GELC
R-64	1285	12/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	20.9	—	—	0.1	mg/L	Y	—	NQ	12-491	CALA-12-1767	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.7	—	—	0.1	mg/L	Y	—	NQ	11-3451	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	46.8	—	—	1	µg/L	Y	—	NQ	12-1374	CALA-12-17147	GELC
R-64	1285	06/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	46.6	—	—	1	µg/L	Y	—	NQ	12-1374	CALA-12-17152	GELC
R-64	1285	03/26/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	38.6	—	—	1	µg/L	Y	—	NQ	12-1150	CALA-12-12310	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	40	—	—	1	µg/L	Y	—	NQ	12-1150	CALA-12-12314	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	42.6	—	—	1	µg/L	Y	—	NQ	12-491	CALA-12-1770	GELC
R-64	1285	12/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	41.6	—	—	1	µg/L	Y	—	NQ	12-491	CALA-12-1767	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	45.4	—	—	1	µg/L	Y	—	NQ	11-3451	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.869	—	—	0.067	µg/L	Y	—	NQ	12-1374	CALA-12-17147	GELC
R-64	1285	06/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.905	—	—	0.067	µg/L	Y	—	NQ	12-1374	CALA-12-17152	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	1.39	—	—	0.067	µg/L	Y	—	NQ	12-1150	CALA-12-12314	GELC
R-64	1285	03/26/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.42	—	—	0.067	µg/L	Y	—	NQ	12-1150	CALA-12-12310	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	1.13	—	—	0.067	µg/L	Y	—	NQ	12-491	CALA-12-1770	GELC
R-64	1285	12/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.16	—	—	0.067	µg/L	Y	—	NQ	12-491	CALA-12-1767	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.32	—	—	0.067	µg/L	Y	—	NQ	11-3451	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.87	—	—	1	µg/L	Y	J	J	12-1374	CALA-12-17152	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.71	—	—	1	µg/L	Y	J	J	12-1374	CALA-12-17147	GELC
R-64	1285	03/26/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.31	—	—	1	µg/L	Y	—	NQ	12-1150	CALA-12-12310	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.71	—	—	1	µg/L	Y	—	NQ	12-1150	CALA-12-12314	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.27	—	—	1	µg/L	Y	—	NQ	12-491	CALA-12-1770	GELC
R-64	1285	12/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.34	—	—	1	µg/L	Y	—	NQ	12-491	CALA-12-1767	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.16	—	—	1	µg/L	Y	—	NQ	11-3451	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.223	—	—	0.05	µg/L	Y	—	NQ	12-1374	CALA-12-17152	GELC
R-64	1285	06/18/12	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.233	—	—	0.05	µg/L	Y	—	NQ	12-1374	CALA-12-17147	GELC

Table C-1 TA-21 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-64	1285	03/26/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.215	—	—	0.05	µg/L	Y	—	NQ	12-1150	CALA-12-12310	GELC
R-64	1285	03/26/12	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.223	—	—	0.05	µg/L	Y	—	NQ	12-1150	CALA-12-12314	GELC
R-64	1285	12/08/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.213	—	—	0.05	µg/L	Y	—	NQ	12-491	CALA-12-1767	GELC
R-64	1285	12/08/11	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.214	—	—	0.05	µg/L	Y	—	NQ	12-491	CALA-12-1770	GELC
R-64	1285	09/06/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.224	—	—	0.05	µg/L	Y	—	NQ	11-3447	CALA-11-26336	GELC
R-64	1285	06/18/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00473	0.00885	0.0404	—	pCi/L	Y	U	U	12-1374	CALA-12-17150	GELC
R-64	1285	06/18/12	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0285	0.01	0.0374	—	pCi/L	Y	U	U	12-1374	CALA-12-17146	GELC
R-64	1285	03/26/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0186	0.00743	0.0372	—	pCi/L	Y	U	U	12-1150	CALA-12-12308	GELC
R-64	1285	03/26/12	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-6.48E-10	0.00389	0.035	—	pCi/L	Y	U	U	12-1150	CALA-12-12317	GELC
R-64	1285	12/08/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00404	0.004	0.037	—	pCi/L	Y	U	U	12-491	CALA-12-1766	GELC
R-64	1285	12/08/11	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0019	0.0033	0.034	—	pCi/L	Y	U	U	12-491	CALA-12-1771	GELC
R-64	1285	09/06/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00612	0.0054	0.034	—	pCi/L	Y	U	U	11-3447	CALA-11-26335	GELC
R-64	1285	06/18/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.723	2.18	4.96	—	pCi/L	Y	U	U	12-1374	CALA-12-17150	GELC
R-64	1285	06/18/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.669	1.44	4.94	—	pCi/L	Y	U	U	12-1374	CALA-12-17146	GELC
R-64	1285	03/26/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.7	1.61	6.03	—	pCi/L	Y	U	U	12-1150	CALA-12-12308	GELC
R-64	1285	03/26/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.945	1.36	5.14	—	pCi/L	Y	U	U	12-1150	CALA-12-12317	GELC
R-64	1285	12/08/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.356	1.6	5.7	—	pCi/L	Y	U	U	12-491	CALA-12-1771	GELC
R-64	1285	12/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.638	1.8	6.4	—	pCi/L	Y	U	U	12-491	CALA-12-1766	GELC
R-64	1285	09/06/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.986	1.9	6.4	—	pCi/L	Y	U	U	11-3447	CALA-11-26335	GELC
R-64	1285	06/18/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.534	1.51	5.65	—	pCi/L	Y	U	U	12-1374	CALA-12-17150	GELC
R-64	1285	06/18/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.966	1.25	4.38	—	pCi/L	Y	U	U	12-1374	CALA-12-17146	GELC
R-64	1285	03/26/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.372	1.2	4.45	—	pCi/L	Y	U	U	12-1150	CALA-12-12308	GELC
R-64	1285	03/26/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.49	1.15	3.75	—	pCi/L	Y	U	U	12-1150	CALA-12-12317	GELC
R-64	1285	12/08/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.613	1.6	5.8	—	pCi/L	Y	U	U	12-491	CALA-12-1771	GELC
R-64	1285	12/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.00351	1.6	5.9	—	pCi/L	Y	U	U	12-491	CALA-12-1766	GELC
R-64	1285	09/06/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1	2.1	6.7	—	pCi/L	Y	U	U	11-3447	CALA-11-26335	GELC
R-64	1285	06/18/12	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	2.01	0.849	2.32	—	pCi/L	Y	U	U	12-1374	CALA-12-17146	GELC
R-64	1285	06/18/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.46	0.827	2.51	—	pCi/L	Y	U	U	12-1374	CALA-12-17150	GELC
R-64	1285	03/26/12	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	Y	3	0.926	1.96	—	pCi/L	Y	—	NQ	12-1150	CALA-12-12317	GELC
R-64	1285	03/26/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	3.39	1.01	2	—	pCi/L	Y	—	NQ	12-1150	CALA-12-12308	GELC
R-64	1285	12/08/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	5.54	1.5	2.8	—	pCi/L	Y	—	NQ	12-491	CALA-12-1766	GELC
R-64	1285	12/08/11	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	Y	6.88	1.6	2.5	—	pCi/L	Y	—	NQ	12-491	CALA-12-1771	GELC
R-64	1285	09/06/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.33	0.74	2.2	—	pCi/L	Y	U	U	11-3451	CALA-11-26335	GELC
R-64	1285	06/18/12	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	2.07	0.891	2.79	—	pCi/L	Y	U	U	12-1374	CALA-12-17146	GELC
R-64	1285	06/18/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.04	0.97	2.87	—	pCi/L	Y	—	NQ	12-1374	CALA-12-17150	GELC
R-64	1285	03/26/12	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	1.63	0.849	2.7	—	pCi/L	Y	U	U	12-1150	CALA-12-12317	GELC
R-64	1285	03/26/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.99	0.923	2.59	—	pCi/L	Y	—	NQ	12-1150	CALA-12-12308	GELC
R-64	1285	12/08/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.14	0.95	2.6	—	pCi/L	Y	—	NQ	12-491	CALA-12-1766	GELC
R-64	1285	12/08/11	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	4.29	1	2.6	—	pCi/L	Y	—	NQ	12-491	CALA-12-1771	GELC
R-64	1285	09/06/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.67	0.77	2.3	—	pCi/L	Y	U	U	11-3451	CALA-11-26335	GELC
R-64	1285	06/18/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.136	2.46	8.98	—	pCi/L	Y	U	U	12-1374	CALA-12-17150	GELC
R-64	1285	06/18/12	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.84	2.69	9.35	—	pCi/L	Y	U	U	12-1374	CALA-12-17146	GELC
R-64	1285	03/26/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	5.04	3.07	11.2	—	pCi/L	Y	U	U	12-1150	CALA-12-12308	GELC
R-64	1285	03/26/12	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.19	2.64	9.47	—	pCi/L	Y	U	U	12-1150	CALA-12-12317	GELC
R-64	1285	12/08/11	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.88	3	11	—	pCi/L	Y	U	U	12-491	CALA-12-1771	GELC
R-64	1285	12/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.245	2.7	9.5	—	pCi/L	Y	U	U	12-491	CALA-12-1766	GELC
R-64	1285	09/06/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.56	3.3	11	—	pCi/L	Y	U	U	11-3447	CALA-11-26335	GELC
R-64	1285	09/06/11	WG	UF	INIT	REG	RAD	HASL-300:Np-237	Neptunium-237	Np-237	N	—	0.072	0.54	—	pCi/L	Y	U	U	11-3447	CALA-11-26335	GELC
R-64	1285	06/18/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00777	0.00388	0.0441	—	pCi/L	Y	U	U	12-1374	CALA-12-17146	GELC
R-64	1285	06/18/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00208	0.00208	0.0473	—	pCi/L	Y	U	U	12-1374	CALA-12-17150	GELC
R-64	1285	03/26/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0113	0.00814	0.0412	—	pCi/L	Y	U	U	12-1150	CALA-12-12308	GELC
R-64	1285	03/26/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00372	0.00589	0.034	—	pCi/L	Y	U	U	12-1150	CALA-12-12317	GELC
R-64	1285	12/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00449	0.0032	0.027	—	pCi/L	Y	U	U	12-491	CALA-12-1766	GELC
R-64	1285	12/08/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00931	0.0074	0.028	—	pCi/L	Y	U	U	12-491	CALA-12-1771	GELC
R-64	1285	09/06/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00722	0.0048	0.025	—	pCi/L	Y	U	U	11-3447	CALA-11-26335	GELC

Table C-1 TA-21 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-64	1285	06/18/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00194	0.00514	0.0436	—	pCi/L	Y	U	U	12-1374	CALA-12-17146	GELC
R-64	1285	06/18/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00833	0.00416	0.0467	—	pCi/L	Y	U	U	12-1374	CALA-12-17150	GELC
R-64	1285	03/26/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00903	0.00638	0.0318	—	pCi/L	Y	U	U	12-1150	CALA-12-12308	GELC
R-64	1285	03/26/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00744	0.00456	0.0263	—	pCi/L	Y	U	U	12-1150	CALA-12-12317	GELC
R-64	1285	12/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0112	0.006	0.028	—	pCi/L	Y	U	U	12-491	CALA-12-1766	GELC
R-64	1285	12/08/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0186	0.0099	0.029	—	pCi/L	Y	U	U	12-491	CALA-12-1771	GELC
R-64	1285	09/06/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00241	0.0054	0.046	—	pCi/L	Y	U	U	11-3447	CALA-11-26335	GELC
R-64	1285	06/18/12	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-39.5	17.6	58.3	—	pCi/L	Y	U	U	12-1374	CALA-12-17146	GELC
R-64	1285	06/18/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-33	16.7	57.5	—	pCi/L	Y	U	U	12-1374	CALA-12-17150	GELC
R-64	1285	03/26/12	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-25.4	19.5	72.2	—	pCi/L	Y	U	U	12-1150	CALA-12-12317	GELC
R-64	1285	03/26/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-0.496	17.6	68.5	—	pCi/L	Y	U	U	12-1150	CALA-12-12308	GELC
R-64	1285	12/08/11	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	8.94	18	76	—	pCi/L	Y	U	U	12-491	CALA-12-1771	GELC
R-64	1285	12/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	33.4	20	82	—	pCi/L	Y	U	U	12-491	CALA-12-1766	GELC
R-64	1285	09/06/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	71.4	25	100	—	pCi/L	Y	U	U	11-3447	CALA-11-26335	GELC
R-64	1285	06/18/12	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.0576	1.03	3.97	—	pCi/L	Y	U	U	12-1374	CALA-12-17146	GELC
R-64	1285	06/18/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.0215	1.2	4.76	—	pCi/L	Y	U	U	12-1374	CALA-12-17150	GELC
R-64	1285	03/26/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-3.12	1.39	4.13	—	pCi/L	Y	U	U	12-1150	CALA-12-12308	GELC
R-64	1285	03/26/12	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.684	1.47	5.74	—	pCi/L	Y	U	U	12-1150	CALA-12-12317	GELC
R-64	1285	12/08/11	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	1.92	1.5	6.4	—	pCi/L	Y	U	U	12-491	CALA-12-1771	GELC
R-64	1285	12/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.59	1.3	5.6	—	pCi/L	Y	U	U	12-491	CALA-12-1766	GELC
R-64	1285	09/06/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.17	1.9	5.5	—	pCi/L	Y	U	U	11-3447	CALA-11-26335	GELC
R-64	1285	06/18/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.245	0.145	0.476	—	pCi/L	Y	U	U	12-1374	CALA-12-17150	GELC
R-64	1285	06/18/12	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.156	0.143	0.48	—	pCi/L	Y	U	U	12-1374	CALA-12-17146	GELC
R-64	1285	03/26/12	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.337	0.116	0.433	—	pCi/L	Y	U	U	12-1150	CALA-12-12317	GELC
R-64	1285	03/26/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0411	0.125	0.429	—	pCi/L	Y	U	U	12-1150	CALA-12-12308	GELC
R-64	1285	12/08/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.259	0.15	0.48	—	pCi/L	Y	U	U	12-491	CALA-12-1766	GELC
R-64	1285	12/08/11	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.00477	0.14	0.49	—	pCi/L	Y	U	U	12-491	CALA-12-1771	GELC
R-64	1285	09/06/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.242	0.15	0.48	—	pCi/L	Y	U	U	11-3447	CALA-11-26335	GELC
R-64	1285	06/18/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.31	0.79	2.66	—	pCi/L	Y	U	U	12-1380	CALA-12-17150	ARSL
R-64	1285	06/18/12	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.31	0.89	2.99	—	pCi/L	Y	U	U	12-1380	CALA-12-17146	ARSL
R-64	1285	03/26/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.695	0.698	2.096	—	pCi/L	Y	U	U	12-1163	CALA-12-12308	ARSL
R-64	1285	03/26/12	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.233	0.644	2.173	—	pCi/L	Y	U	U	12-1163	CALA-12-12317	ARSL
R-64	1285	12/08/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.78	0.63	2.05	—	pCi/L	Y	U	U	12-506	CALA-12-1766	ARSL
R-64	1285	12/08/11	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.12	0.63	2.14	—	pCi/L	Y	U	U	12-506	CALA-12-1771	ARSL
R-64	1285	09/06/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	2.9946	0.8694	2.3506	—	pCi/L	Y	—	NQ	11-3452	CALA-11-26335	ARSL
R-64	1285	06/18/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.686	0.0433	0.0718	—	pCi/L	Y	—	J	12-1374	CALA-12-17150	GELC
R-64	1285	06/18/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.744	0.0449	0.0734	—	pCi/L	Y	—	NQ	12-1374	CALA-12-17146	GELC
R-64	1285	03/26/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.28	0.0609	0.0686	—	pCi/L	Y	—	NQ	12-1150	CALA-12-12317	GELC
R-64	1285	03/26/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.11	0.0555	0.0619	—	pCi/L	Y	—	NQ	12-1150	CALA-12-12308	GELC
R-64	1285	12/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.34	0.11	0.049	—	pCi/L	Y	—	NQ	12-491	CALA-12-1766	GELC
R-64	1285	12/08/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.32	0.1	0.051	—	pCi/L	Y	—	NQ	12-491	CALA-12-1771	GELC
R-64	1285	09/06/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.01	0.093	0.057	—	pCi/L	Y	—	NQ	11-3447	CALA-11-26335	GELC
R-64	1285	06/18/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0429	0.0128	0.0409	—	pCi/L	Y	—	NQ	12-1374	CALA-12-17146	GELC
R-64	1285	06/18/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.029	0.0107	0.04	—	pCi/L	Y	U	U	12-1374	CALA-12-17150	GELC
R-64	1285	03/26/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0534	0.0137	0.0357	—	pCi/L	Y	—	NQ	12-1150	CALA-12-12308	GELC
R-64	1285	03/26/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0558	0.0148	0.0396	—	pCi/L	Y	—	NQ	12-1150	CALA-12-12317	GELC
R-64	1285	12/08/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0507	0.012	0.029	—	pCi/L	Y	—	NQ	12-491	CALA-12-1771	GELC
R-64	1285	12/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0487	0.013	0.027	—	pCi/L	Y	—	NQ	12-491	CALA-12-1766	GELC
R-64	1285	09/06/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0429	0.013	0.041	—	pCi/L	Y	—	NQ	11-3447	CALA-11-26335	GELC
R-64	1285	06/18/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.431	0.0339	0.0372	—	pCi/L	Y	—	J	12-1374	CALA-12-17150	GELC
R-64	1285	06/18/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.419	0.0336	0.038	—	pCi/L	Y	—	NQ	12-1374	CALA-12-17146	GELC
R-64	1285	03/26/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.735	0.0432	0.0398	—	pCi/L	Y	—	NQ	12-1150	CALA-12-12308	GELC
R-64	1285	03/26/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.699	0.0449	0.0441	—	pCi/L	Y	—	NQ	12-1150	CALA-12-12317	GELC
R-64	1285	12/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.914	0.076	0.027	—	pCi/L	Y	—	NQ	12-491	CALA-12-1766	GELC
R-64	1285	12/08/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.991	0.082	0.028	—	pCi/L	Y	—	NQ	12-491	CALA-12-1771	GELC

Table C-1 TA-21 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-64	1285	09/06/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.679	0.068	0.049	—	pCi/L	Y	—	NQ	11-3447	CALA-11-26335	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.82	—	—	0.01	SU	Y	H	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.92	—	—	0.01	SU	Y	H	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.92	—	—	0.01	SU	Y	H	J-	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	86.5	—	—	0.725	mg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	85.7	—	—	0.725	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	95.2	—	—	0.73	mg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.48	—	—	0.067	mg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.4	—	—	0.067	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	4.3	—	—	0.066	mg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.337	—	—	0.033	mg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.316	—	—	0.033	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.343	—	—	0.033	mg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.625	—	—	0.085	mg/L	N	—	R	12-1383	CALA-12-17153	GELC
R-66	819.4	06/22/12	WG	F	RE	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.715	—	—	0.085	mg/L	Y	H	NQ	12-1383-1	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.605	—	—	0.085	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.7	—	—	0.05	mg/L	Y	—	J+	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	187	—	—	1	µS/cm	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	188	—	—	1	µS/cm	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	201	—	—	1	µS/cm	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.46	—	—	0.133	mg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.5	—	—	0.133	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.89	—	—	0.1	mg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	169	—	—	3.4	mg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	189	—	—	3.4	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	193	—	—	3.4	mg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.528	—	—	0.33	mg/L	Y	J	J	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	UJ	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.35	—	—	0.33	mg/L	Y	J	J	12-594	CALA-12-2110	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.79	—	—	1.7	µg/L	Y	J	J	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	30.7	—	—	1	µg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	28.3	—	—	1	µg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	37.2	—	—	1	µg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	36.9	—	—	15	µg/L	Y	J	J	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	37.1	—	—	15	µg/L	Y	J	J	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	41.8	—	—	15	µg/L	Y	J	J	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.1	—	—	0.05	mg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.7	—	—	0.05	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	20.3	—	—	0.05	mg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.22	—	—	2	µg/L	Y	J	J	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.02	—	—	2	µg/L	Y	J	J	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.9	—	—	0.453	mg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	65.7	—	—	0.453	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	75.5	—	—	0.45	mg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.29	—	—	0.11	mg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.19	—	—	0.11	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.02	—	—	0.11	mg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.47	—	—	0.165	µg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.36	—	—	0.165	µg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.32	—	—	0.17	µg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.523	—	—	0.5	µg/L	Y	J	J	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	µg/L	Y	U	U	12-1164	CALA-12-12311	GELC

Table C-1 TA-21 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-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	µg/L	Y	U	U	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.33	—	—	0.05	mg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.33	—	—	0.05	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.75	—	—	0.05	mg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	80.6	—	—	0.053	mg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	78.5	—	—	0.053	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	80.7	—	—	0.053	mg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.6	—	—	0.1	mg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.4	—	—	0.1	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	14.3	—	—	0.1	mg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	78.7	—	—	1	µg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	76.6	—	—	1	µg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	88.7	—	—	1	µg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.724	—	—	0.067	µg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.743	—	—	0.067	µg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.822	—	—	0.067	µg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	11.9	—	—	1	µg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.1	—	—	1	µg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.1	—	—	1	µg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.509	—	—	0.05	µg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.474	—	—	0.05	µg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.462	—	—	0.05	µg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00843	0.00422	0.036	—	pCi/L	Y	U	U	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00777	0.00549	0.035	—	pCi/L	Y	U	U	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	—	0.0064	0.036	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.787	1.48	5.04	—	pCi/L	Y	U	U	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.58	1.86	6.4	—	pCi/L	Y	U	U	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.469	1.4	5	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	4.85	1.5	6.69	—	pCi/L	Y	U	U	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.475	1.6	6.24	—	pCi/L	Y	U	U	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.2	1.2	5.7	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.58	1.03	2.82	—	pCi/L	Y	U	U	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.83	0.788	1.93	—	pCi/L	Y	U	U	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.05	0.67	2.1	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.27	0.842	2.54	—	pCi/L	Y	—	NQ	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.74	0.873	2.52	—	pCi/L	Y	—	NQ	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.12	0.83	2.6	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.22	2.88	10.7	—	pCi/L	Y	U	U	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.14	3.51	12.8	—	pCi/L	Y	U	U	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.99	3.1	11	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00249	0.00352	0.0387	—	pCi/L	Y	U	U	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0178	0.00626	0.0361	—	pCi/L	Y	U	U	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00532	0.0065	0.044	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	—	0.00352	0.0384	—	pCi/L	Y	U	U	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00198	0.00524	0.0279	—	pCi/L	Y	U	U	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00266	0.0059	0.034	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	3.14	17.5	68.4	—	pCi/L	Y	U	U	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-8.69	21.9	86.6	—	pCi/L	Y	U	U	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	13.9	20	80	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	EPA:903.1	Radium-226	Ra-226	N	0.299	0.15	0.41	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	EPA:904	Radium-228	Ra-228	N	0.304	0.22	0.72	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.134	1.34	5.06	—	pCi/L	Y	U	U	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.425	1.32	5.31	—	pCi/L	Y	U	U	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.989	1.7	6.3	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.163	0.124	0.413	—	pCi/L	Y	U	U	12-1383	CALA-12-17151	GELC

Table C-1 TA-21 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-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0113	0.121	0.443	—	pCi/L	Y	U	U	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.153	0.11	0.49	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.41	0.82	2.75	—	pCi/L	Y	U	U	12-1388	CALA-12-17151	ARSL
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.019	0.639	2.039	—	pCi/L	Y	U	U	12-1162	CALA-12-12309	ARSL
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.39	0.65	2.23	—	pCi/L	Y	U	U	12-603	CALA-12-2110	ARSL
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.43	0.033	0.0618	—	pCi/L	Y	—	NQ	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.44	0.0325	0.0545	—	pCi/L	Y	—	NQ	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.654	0.059	0.041	—	pCi/L	Y	—	NQ	12-594	CALA-12-2110	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00278	0.00833	0.0345	—	pCi/L	Y	U	U	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00554	0.00554	0.0315	—	pCi/L	Y	U	U	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0132	0.0067	0.036	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.182	0.0202	0.032	—	pCi/L	Y	—	NQ	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.199	0.0211	0.035	—	pCi/L	Y	—	NQ	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.27	0.032	0.034	—	pCi/L	Y	—	NQ	12-594	CALA-12-2110	GELC

Table C-2 TA-21 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
LADP-3	316	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.64	—	—	0.01	SU	Y	H	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.09	—	—	0.01	SU	Y	H	J-	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.21	—	—	0.01	SU	Y	H	J-	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.41	—	—	0.01	SU	Y	H	J-	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.96	—	—	0.01	SU	Y	H	J-	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	38.8	—	—	0.725	mg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	52.4	—	—	0.73	mg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	48.2	—	—	0.73	mg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	46.2	—	—	0.73	mg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	53.1	—	—	0.73	mg/L	Y	—	NQ	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00659	0.0369	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00295	0.0042	0.024	—	pCi/L	Y	U	U	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00078	0.0025	0.052	—	pCi/L	Y	U	U	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00285	0.0015	0.024	—	pCi/L	Y	U	U	10-1172	CALA-10-9163	GELC
LADP-3	316	07/15/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0157	0.011	0.037	—	pCi/L	Y	U	U	09-2659	CALA-09-11129	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	7.11	—	—	1	µg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	28.5	—	—	1	µg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.2	—	—	1	µg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	23.5	—	—	1	µg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	23.9	—	—	1	µg/L	Y	—	NQ	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	23	—	—	15	µg/L	Y	J	J	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	21.4	—	—	15	µg/L	Y	J	J	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	23.8	—	—	15	µg/L	Y	J	J	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	15.1	—	—	15	µg/L	Y	J	J	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	21.8	—	—	15	µg/L	Y	J	J	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	4.87	—	—	0.05	mg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	15.5	—	—	0.05	mg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12	—	—	0.05	mg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.3	—	—	0.05	mg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.2	—	—	0.05	mg/L	Y	—	NQ	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.62	1.79	6.75	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.167	2.7	5.2	—	pCi/L	Y	U	U	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.63	1.8	6.1	—	pCi/L	Y	U	U	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.101	1.3	4.2	—	pCi/L	Y	U	U	10-1172	CALA-10-9163	GELC
LADP-3	316	07/15/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.277	1.7	5.6	—	pCi/L	Y	U	U	09-2659	CALA-09-11129	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	5.84	—	—	0.067	mg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.15	—	—	0.066	mg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	30.7	—	—	0.33	mg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	32	—	—	0.33	mg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	31.3	—	—	0.33	mg/L	Y	—	NQ	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.29	1.69	6.77	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.1	1.6	4.8	—	pCi/L	Y	U	U	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.728	1.3	4.1	—	pCi/L	Y	U	U	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1	1.3	4.4	—	pCi/L	Y	U	U	10-1172	CALA-10-9163	GELC
LADP-3	316	07/15/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.661	1.3	4.5	—	pCi/L	Y	U	U	09-2659	CALA-09-11129	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.326	—	—	0.033	mg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.142	—	—	0.033	mg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.255	—	—	0.033	mg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.347	—	—	0.033	mg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.323	—	—	0.033	mg/L	Y	—	NQ	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.582	0.612	2.37	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC

Table C-2 TA-21 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
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.23	0.83	2.6	—	pCi/L	Y	U	U	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.114	0.51	2.6	—	pCi/L	Y	U	U	10-4270	CALA-10-24991	GELC
LADP-3	316	07/15/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.93	0.91	2.5	—	pCi/L	Y	U	U	09-2659	CALA-09-11129	GELC
LADP-3	316	01/09/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.295	0.48	1.9	—	pCi/L	Y	U	U	09-598	CALA-09-1747	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.68	0.949	2.92	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.1	1	2.2	—	pCi/L	Y	—	NQ	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.5	1.3	3	—	pCi/L	Y	—	NQ	10-4270	CALA-10-24991	GELC
LADP-3	316	07/15/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.91	1.1	2.1	—	pCi/L	Y	—	NQ	09-2659	CALA-09-11129	GELC
LADP-3	316	01/09/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	6.41	1.1	2.5	—	pCi/L	Y	—	NQ	09-598	CALA-09-1747	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	18.4	—	—	0.453	mg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	58.5	—	—	0.45	mg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	45.7	—	—	0.35	mg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	49.9	—	—	0.35	mg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	50.1	—	—	0.35	mg/L	Y	—	NQ	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	44.5	—	—	30	µg/L	Y	J	J	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	µg/L	Y	U	U	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	µg/L	Y	U	U	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	µg/L	Y	U	U	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	µg/L	Y	U	U	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.52	—	—	0.11	mg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.79	—	—	0.11	mg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.85	—	—	0.085	mg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.06	—	—	0.085	mg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.13	—	—	0.085	mg/L	Y	—	NQ	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.7	—	—	0.165	µg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.99	—	—	0.17	µg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.35	—	—	0.1	µg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.83	—	—	0.1	µg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.98	—	—	0.1	µg/L	Y	—	NQ	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.74	3.55	12.7	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.41	2.4	7.7	—	pCi/L	Y	U	U	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.67	2	7	—	pCi/L	Y	U	U	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	8.29	11	36	—	pCi/L	Y	U	U	10-1172	CALA-10-9163	GELC
LADP-3	316	07/15/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	43.1	16	48	—	pCi/L	Y	U	U	09-2659	CALA-09-11129	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.103	—	—	0.017	mg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.198	—	—	0.05	mg/L	Y	J	J	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.194	—	—	0.05	mg/L	Y	J	J	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.183	—	—	0.05	mg/L	Y	J	J	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.0719	—	—	0.01	mg/L	Y	—	U	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.127	—	—	0.05	µg/L	Y	J	J	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.141	—	—	0.05	µg/L	Y	J	J	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.137	—	—	0.05	µg/L	Y	J	J	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.161	—	—	0.05	µg/L	Y	J	J	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.135	—	—	0.05	µg/L	Y	J	J	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00324	0.00562	0.0218	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0104	0.0051	0.026	—	pCi/L	Y	U	U	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00491	0.01	0.022	—	pCi/L	Y	U	U	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0017	0.023	—	pCi/L	Y	U	U	10-1172	CALA-10-9163	GELC
LADP-3	316	07/15/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00514	0.0051	0.041	—	pCi/L	Y	U	U	09-2659	CALA-09-11129	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.013	0.00795	0.0391	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0104	0.0051	0.039	—	pCi/L	Y	U	U	11-1543	CALA-11-5094	GELC

Table C-2 TA-21 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
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00491	0.006	0.036	—	pCi/L	Y	U	U	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00335	0.0034	0.024	—	pCi/L	Y	U	U	10-1172	CALA-10-9163	GELC
LADP-3	316	07/15/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00257	0.0057	0.05	—	pCi/L	Y	U	U	09-2659	CALA-09-11129	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.59	—	—	0.05	mg/L	Y	E	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	6.92	—	—	0.05	mg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.73	—	—	0.05	mg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.73	—	—	0.05	mg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.91	—	—	0.05	mg/L	Y	—	NQ	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	37.5	22.2	91.3	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	27.6	21	78	—	pCi/L	Y	U	U	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-13.7	15	50	—	pCi/L	Y	U	U	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	26.9	17	59	—	pCi/L	Y	U	U	10-1172	CALA-10-9163	GELC
LADP-3	316	07/15/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-9.16	19	64	—	pCi/L	Y	U	U	09-2659	CALA-09-11129	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	59.6	—	—	0.053	mg/L	Y	—	J+	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	59.2	—	—	0.053	mg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	58.2	—	—	0.053	mg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	58.6	—	—	0.053	mg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	59.4	—	—	0.053	mg/L	Y	—	NQ	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.3	—	—	0.1	mg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	28.1	—	—	0.1	mg/L	Y	—	J+	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	23.3	—	—	0.1	mg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	22.3	—	—	0.1	mg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	22.5	—	—	0.1	mg/L	Y	E	J	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.37	1.44	4.7	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.42	1.8	6.3	—	pCi/L	Y	U	U	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.73	1.4	3.8	—	pCi/L	Y	U	U	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.8	1.2	3.7	—	pCi/L	Y	U	U	10-1172	CALA-10-9163	GELC
LADP-3	316	07/15/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.64	1.5	4.9	—	pCi/L	Y	U	U	09-2659	CALA-09-11129	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	97.3	—	—	1	µS/cm	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	269	—	—	1	µS/cm	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	227	—	—	1	µS/cm	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	243	—	—	1	µS/cm	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	230	—	—	1	µS/cm	Y	—	NQ	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	33.3	—	—	1	µg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	115	—	—	1	µg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	87.9	—	—	1	µg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	94.2	—	—	1	µg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	92.3	—	—	1	µg/L	Y	E	J	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0733	0.0678	0.238	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.113	0.14	0.52	—	pCi/L	Y	U	U	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.00275	0.13	0.46	—	pCi/L	Y	U	U	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.253	0.12	0.37	—	pCi/L	Y	U	U	10-1172	CALA-10-9163	GELC
LADP-3	316	07/15/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.294	0.15	0.48	—	pCi/L	Y	U	U	09-2659	CALA-09-11129	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.8	—	—	0.133	mg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.49	—	—	0.1	mg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	6.3	—	—	0.1	mg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7	—	—	0.1	mg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.14	—	—	0.1	mg/L	Y	—	NQ	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Thallium	Tl	Y	0.45	—	—	0.45	µg/L	Y	J	J	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Thallium	Tl	N	2	—	—	0.45	µg/L	Y	U	U	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Thallium	Tl	N	1	—	—	0.3	µg/L	Y	U	U	10-4270	CALA-10-25198	GELC

Table C-2 TA-21 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
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Thallium	Tl	N	1	—	—	0.3	µg/L	Y	U	U	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Thallium	Tl	N	1	—	—	0.3	µg/L	Y	U	U	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	85.7	—	—	3.4	mg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	194	—	—	2.4	mg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	173	—	—	2.4	mg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	178	—	—	2.4	mg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	181	—	—	2.4	mg/L	Y	—	J	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.879	—	—	0.33	mg/L	Y	J	J	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.968	—	—	0.33	mg/L	Y	J	J	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.34	—	—	0.33	mg/L	Y	—	NQ	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.34	—	—	0.33	mg/L	Y	—	NQ	10-1171	CALA-10-9163	GELC
LADP-3	316	07/15/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.33	—	—	0.33	mg/L	Y	—	NQ	09-2659	CALA-09-11129	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	17.268	2.756	2.193	—	pCi/L	Y	—	J-	12-1531	CALA-12-22815	ARSL
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	78.9866	11.9462	2.254	—	pCi/L	N	—	R	11-1582	CALA-11-5094	ARSL
LADP-3	316	03/07/11	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	77.6986	11.753	2.254	—	pCi/L	Y	—	NQ	11-1582	CALA-11-5094	ARSL
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	71.9348	10.8514	1.7388	—	pCi/L	N	—	R	10-4338	CALA-10-24991	ARSL
LADP-3	316	08/20/10	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	69.1334	10.4328	1.7388	—	pCi/L	Y	—	NQ	10-4338	CALA-10-24991	ARSL
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	85.974	2.898	0.2898	—	pCi/L	Y	—	NQ	10-1190	CALA-10-9163	UMTL
LADP-3	316	07/15/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	114.632	3.864	0.2898	—	pCi/L	Y	—	NQ	09-2699	CALA-09-11129	UMTL
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.476	—	—	0.067	µg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.842	—	—	0.067	µg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.748	—	—	0.05	µg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.605	—	—	0.05	µg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.712	—	—	0.05	µg/L	Y	—	NQ	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.135	0.024	0.0849	—	pCi/L	Y	—	J	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.305	0.032	0.042	—	pCi/L	Y	—	NQ	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.143	0.026	0.094	—	pCi/L	Y	—	NQ	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.229	0.031	0.081	—	pCi/L	Y	—	NQ	10-1172	CALA-10-9163	GELC
LADP-3	316	07/15/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.215	0.036	0.13	—	pCi/L	Y	—	NQ	09-2659	CALA-09-11129	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0157	0.0111	0.0548	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0168	0.0073	0.027	—	pCi/L	Y	U	U	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.012	0.007	0.044	—	pCi/L	Y	U	U	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00717	0.0072	0.046	—	pCi/L	Y	U	U	10-1172	CALA-10-9163	GELC
LADP-3	316	07/15/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.0204	0.015	0.062	—	pCi/L	Y	U	U	09-2659	CALA-09-11129	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.134	0.0234	0.0431	—	pCi/L	Y	—	J	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.263	0.029	0.028	—	pCi/L	Y	—	NQ	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.223	0.031	0.057	—	pCi/L	Y	—	NQ	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.197	0.028	0.053	—	pCi/L	Y	—	NQ	10-1172	CALA-10-9163	GELC
LADP-3	316	07/15/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.293	0.038	0.062	—	pCi/L	Y	—	NQ	09-2659	CALA-09-11129	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.97	—	—	1	µg/L	Y	J	J	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.69	—	—	1	µg/L	Y	J	J	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.56	—	—	1	µg/L	Y	J	J	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.93	—	—	1	µg/L	Y	J	J	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.88	—	—	1	µg/L	Y	J	J	09-2659	CALA-09-11128	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.59	—	—	3.3	µg/L	Y	J	J	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.96	—	—	3.3	µg/L	Y	J	J	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	14	—	—	3.3	µg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	10-1172	CALA-10-9162	GELC
LADP-3	316	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.14	—	—	3.3	µg/L	Y	J	J	09-2659	CALA-09-11128	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.07	—	—	0.01	SU	Y	H	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.05	—	—	0.01	SU	Y	H	J-	11-1566	CALA-11-5113	GELC

Table C-2 TA-21 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
LAOI(a)-1.1	295.2	08/19/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.61	—	—	0.01	SU	Y	H	J-	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7	—	—	0.01	SU	Y	H	J-	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.44	—	—	0.01	SU	Y	H	J-	09-2568	CALA-09-11127	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	43.5	—	—	0.725	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	42.1	—	—	0.73	mg/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	47.7	—	—	0.73	mg/L	Y	—	NQ	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	38.9	—	—	0.73	mg/L	Y	—	NQ	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	46.8	—	—	0.73	mg/L	Y	—	NQ	09-2568	CALA-09-11127	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00584	0.00826	0.0403	—	pCi/L	Y	U	U	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.000896	0.003	0.027	—	pCi/L	Y	U	U	11-1566	CALA-11-5112	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00475	0.0031	0.041	—	pCi/L	Y	U	U	10-4257	CALA-10-25215	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00078	0.0029	0.032	—	pCi/L	Y	U	U	10-1252	CALA-10-9157	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00916	0.0083	0.036	—	pCi/L	Y	U	U	09-2568	CALA-09-11125	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	8.68	—	—	1	µg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	9.31	—	—	1	µg/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	13.2	—	—	1	µg/L	Y	—	NQ	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	7.68	—	—	1	µg/L	Y	—	NQ	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	10.2	—	—	1	µg/L	Y	—	NQ	09-2568	CALA-09-11127	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	6.59	—	—	0.05	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	6.55	—	—	0.05	mg/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	6.82	—	—	0.05	mg/L	Y	—	NQ	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	5.88	—	—	0.05	mg/L	Y	—	NQ	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	6.46	—	—	0.05	mg/L	Y	—	NQ	09-2568	CALA-09-11127	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.53	1.61	6.25	—	pCi/L	Y	U	U	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.0441	1.3	4.1	—	pCi/L	Y	U	U	11-1566	CALA-11-5112	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.693	1.3	4.3	—	pCi/L	Y	U	U	10-4257	CALA-10-25215	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.225	1.4	4.5	—	pCi/L	Y	U	U	10-1252	CALA-10-9157	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.877	1.6	5.1	—	pCi/L	Y	U	U	09-2568	CALA-09-11125	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.18	—	—	0.067	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.16	—	—	0.066	mg/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.29	—	—	0.066	mg/L	Y	—	NQ	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.2	—	—	0.066	mg/L	Y	—	NQ	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.25	—	—	0.066	mg/L	Y	—	NQ	09-2568	CALA-09-11127	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.67	—	—	2	µg/L	Y	J	J	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2.5	µg/L	Y	U	U	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2.5	µg/L	Y	U	U	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2.5	µg/L	Y	U	U	09-2568	CALA-09-11127	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.24	1.72	6.94	—	pCi/L	Y	U	U	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.525	1.4	4.4	—	pCi/L	Y	U	U	11-1566	CALA-11-5112	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.82	1.4	4.9	—	pCi/L	Y	U	U	10-4257	CALA-10-25215	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.89	1.3	5.1	—	pCi/L	Y	U	U	10-1252	CALA-10-9157	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.16	1.6	5.6	—	pCi/L	Y	U	U	09-2568	CALA-09-11125	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.12	—	—	0.033	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.119	—	—	0.033	mg/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.141	—	—	0.033	mg/L	Y	—	NQ	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.102	—	—	0.033	mg/L	Y	—	NQ	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.258	—	—	0.033	mg/L	Y	—	NQ	09-2568	CALA-09-11127	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	6.62	1.4	1.94	—	pCi/L	Y	—	NQ	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	5.06	1.4	2.4	—	pCi/L	Y	—	NQ	11-1566	CALA-11-5112	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	10.3	2.1	2.6	—	pCi/L	Y	—	NQ	10-4257	CALA-10-25215	GELC

Table C-2 TA-21 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
LAOI(a)-1.1	295.2	07/07/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	7.33	1.5	2.1	—	pCi/L	Y	—	NQ	09-2568	CALA-09-11125	GELC
LAOI(a)-1.1	295.2	07/31/07	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	4.35	0.96	1.63	—	pCi/L	Y	—	J	190642	GU070700G11L01	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.51	0.967	2.18	—	pCi/L	Y	—	NQ	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	12.1	1.7	2.7	—	pCi/L	Y	—	NQ	11-1566	CALA-11-5112	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	12.3	1.7	2.8	—	pCi/L	Y	—	NQ	10-4257	CALA-10-25215	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	13.6	1.8	2.4	—	pCi/L	Y	—	NQ	09-2568	CALA-09-11125	GELC
LAOI(a)-1.1	295.2	07/31/07	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.4	1.12	2.35	—	pCi/L	Y	—	—	190642	GU070700G11L01	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	24.1	—	—	0.453	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	23.8	—	—	0.45	mg/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	23.3	—	—	0.35	mg/L	Y	—	NQ	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	21.8	—	—	0.35	mg/L	Y	—	NQ	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	22.3	—	—	0.35	mg/L	Y	—	NQ	09-2568	CALA-09-11127	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.86	—	—	0.11	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.81	—	—	0.11	mg/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.53	—	—	0.085	mg/L	Y	—	NQ	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.73	—	—	0.085	mg/L	Y	—	NQ	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.5	—	—	0.085	mg/L	Y	—	NQ	09-2568	CALA-09-11127	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.54	—	—	0.165	µg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.65	—	—	0.17	µg/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2	—	—	0.1	µg/L	Y	—	NQ	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.06	—	—	0.1	µg/L	Y	—	NQ	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.88	—	—	0.1	µg/L	Y	—	NQ	09-2568	CALA-09-11127	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.998	3.5	12.1	—	pCi/L	Y	U	U	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.204	—	—	0.05	µg/L	Y	—	NQ	09-2568	CALA-09-11127	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00325	0.00562	0.0327	—	pCi/L	Y	U	U	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00409	0.0035	0.025	—	pCi/L	Y	U	U	11-1566	CALA-11-5112	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0024	0.0024	0.021	—	pCi/L	Y	U	U	10-4257	CALA-10-25215	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0019	0.027	—	pCi/L	Y	U	U	10-1252	CALA-10-9157	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00681	0.012	0.036	—	pCi/L	Y	U	U	09-2568	CALA-09-11125	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00325	0.00562	0.0384	—	pCi/L	Y	U	U	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00408	0.0035	0.038	—	pCi/L	Y	U	U	11-1566	CALA-11-5112	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0024	0.0042	0.035	—	pCi/L	Y	U	U	10-4257	CALA-10-25215	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00194	0.0027	0.027	—	pCi/L	Y	U	U	10-1252	CALA-10-9157	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00454	0.0072	0.044	—	pCi/L	Y	U	U	09-2568	CALA-09-11125	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.42	—	—	0.05	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.4	—	—	0.05	mg/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	7.48	—	—	0.05	mg/L	Y	—	NQ	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.27	—	—	0.05	mg/L	Y	—	NQ	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	8.74	—	—	0.05	mg/L	Y	—	NQ	09-2568	CALA-09-11127	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-2.89	22	85.8	—	pCi/L	Y	U	U	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-26.8	15	41	—	pCi/L	Y	U	U	11-1566	CALA-11-5112	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-5.84	17	56	—	pCi/L	Y	U	U	10-4257	CALA-10-25215	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-4.13	17	53	—	pCi/L	Y	U	U	10-1252	CALA-10-9157	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	23.1	20	71	—	pCi/L	Y	U	U	09-2568	CALA-09-11125	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.3	—	—	0.053	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.5	—	—	0.053	mg/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	66.2	—	—	0.053	mg/L	Y	—	NQ	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	66.1	—	—	0.053	mg/L	Y	—	NQ	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.7	—	—	0.053	mg/L	Y	—	NQ	09-2568	CALA-09-11127	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	8.29	—	—	0.1	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	8.27	—	—	0.1	mg/L	Y	—	NQ	11-1566	CALA-11-5113	GELC

Table C-2 TA-21 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
LAOI(a)-1.1	295.2	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.77	—	—	0.1	mg/L	Y	—	NQ	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	8.66	—	—	0.1	mg/L	Y	—	NQ	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.14	—	—	0.1	mg/L	Y	—	NQ	09-2568	CALA-09-11127	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.5	1.43	4.94	—	pCi/L	Y	U	U	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.873	1.3	4.6	—	pCi/L	Y	U	U	11-1566	CALA-11-5112	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.81	1.2	3.6	—	pCi/L	Y	U	U	10-4257	CALA-10-25215	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.13	1.4	4.4	—	pCi/L	Y	U	U	10-1252	CALA-10-9157	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.05	1.6	4.9	—	pCi/L	Y	U	U	09-2568	CALA-09-11125	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	99.7	—	—	1	µS/cm	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	93	—	—	1	µS/cm	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	109	—	—	1	µS/cm	Y	—	NQ	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	85.7	—	—	1	µS/cm	Y	—	NQ	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	105	—	—	1	µS/cm	Y	—	NQ	09-2568	CALA-09-11127	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	65	—	—	1	µg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	39.5	—	—	1	µg/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.09	2.3	7.6	—	pCi/L	Y	U	U	11-1566	CALA-11-5112	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.79	2.9	8.9	—	pCi/L	Y	U	U	10-4257	CALA-10-25215	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	14.4	14	47	—	pCi/L	Y	U	U	10-1252	CALA-10-9157	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	47.9	16	39	—	pCi/L	Y	UI	R	09-2568	CALA-09-11125	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.434	—	—	0.017	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0995	—	—	0.01	mg/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.35	—	—	0.05	mg/L	Y	—	NQ	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.494	—	—	0.05	mg/L	Y	—	J	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.109	—	—	0.01	mg/L	Y	—	NQ	09-2568	CALA-09-11127	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.241	—	—	0.05	µg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.237	—	—	0.05	µg/L	Y	—	J+	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.207	—	—	0.05	µg/L	Y	—	NQ	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.214	—	—	0.05	µg/L	Y	—	NQ	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	104	—	—	1	µg/L	Y	—	NQ	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	40.9	—	—	1	µg/L	Y	—	NQ	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	70.6	—	—	1	µg/L	Y	—	NQ	09-2568	CALA-09-11127	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0657	0.115	0.387	—	pCi/L	Y	U	U	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.205	0.14	0.52	—	pCi/L	Y	U	U	11-1566	CALA-11-5112	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.226	0.14	0.45	—	pCi/L	Y	U	U	10-4257	CALA-10-25215	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0469	0.13	0.45	—	pCi/L	Y	U	U	10-1252	CALA-10-9157	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0107	0.14	0.5	—	pCi/L	Y	U	U	09-2568	CALA-09-11125	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.15	—	—	0.133	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.43	—	—	0.1	mg/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.96	—	—	0.1	mg/L	Y	—	NQ	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.54	—	—	0.1	mg/L	Y	—	NQ	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.34	—	—	0.1	mg/L	Y	—	NQ	09-2568	CALA-09-11127	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	84.3	—	—	3.4	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	110	—	—	2.4	mg/L	Y	—	J	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	125	—	—	2.4	mg/L	Y	—	NQ	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	117	—	—	2.4	mg/L	Y	—	NQ	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	121	—	—	2.4	mg/L	Y	—	NQ	09-2568	CALA-09-11127	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.345	—	—	0.33	mg/L	Y	J	J	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-1566	CALA-11-5112	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.612	—	—	0.33	mg/L	Y	J	J	10-4257	CALA-10-25215	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	10-1251	CALA-10-9157	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	09-2568	CALA-09-11125	GELC

Table C-2 TA-21 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
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.103	—	—	0.017	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.015	mg/L	Y	U	U	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.057	—	—	0.015	mg/L	Y	—	U	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.07	—	—	0.015	mg/L	Y	—	U	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.047	—	—	0.015	mg/L	Y	J	U	09-2568	CALA-09-11127	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.852	0.646	2.094	—	pCi/L	Y	U	U	12-1537	CALA-12-22816	ARSL
LAOI(a)-1.1	295.2	03/08/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-2.0608	0.644	2.0608	—	pCi/L	N	U	R	11-1582	CALA-11-5112	ARSL
LAOI(a)-1.1	295.2	03/08/11	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.7084	0.644	2.0608	—	pCi/L	Y	U	U	11-1582	CALA-11-5112	ARSL
LAOI(a)-1.1	295.2	01/13/10	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	11.3988	0.3864	0.2898	—	pCi/L	Y	—	NQ	10-1356	CALA-10-9157	UMTL
LAOI(a)-1.1	295.2	07/07/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.3864	0.2898	0.2898	—	pCi/L	Y	—	U	09-2569	CALA-09-11125	UMTL
LAOI(a)-1.1	295.2	01/13/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.0966	0.2898	0.2898	—	pCi/L	Y	U	U	09-629	CALA-09-1725	UMTL
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.17	—	—	0.067	µg/L	Y	J	J	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.164	—	—	0.067	µg/L	Y	J	J	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.348	—	—	0.05	µg/L	Y	—	NQ	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.232	—	—	0.05	µg/L	Y	—	NQ	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.36	—	—	0.05	µg/L	Y	—	NQ	09-2568	CALA-09-11127	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.235	0.0336	0.0782	—	pCi/L	Y	—	NQ	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.221	0.031	0.064	—	pCi/L	Y	—	NQ	11-1566	CALA-11-5112	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.412	0.045	0.079	—	pCi/L	Y	—	NQ	10-4257	CALA-10-25215	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.397	0.045	0.082	—	pCi/L	Y	—	NQ	10-1252	CALA-10-9157	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.4	0.044	0.11	—	pCi/L	Y	—	NQ	09-2568	CALA-09-11125	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.025	0.0147	0.0331	—	pCi/L	Y	U	U	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0295	0.012	0.041	—	pCi/L	Y	U	U	11-1566	CALA-11-5112	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0336	0.011	0.037	—	pCi/L	Y	U	U	10-4257	CALA-10-25215	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0684	0.017	0.046	—	pCi/L	Y	—	NQ	10-1252	CALA-10-9157	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0245	0.0094	0.053	—	pCi/L	Y	U	U	09-2568	CALA-09-11125	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.26	0.0298	0.039	—	pCi/L	Y	—	NQ	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.268	0.035	0.043	—	pCi/L	Y	—	NQ	11-1566	CALA-11-5112	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.467	0.049	0.048	—	pCi/L	Y	—	NQ	10-4257	CALA-10-25215	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.46	0.05	0.054	—	pCi/L	Y	—	NQ	10-1252	CALA-10-9157	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.451	0.049	0.054	—	pCi/L	Y	—	NQ	09-2568	CALA-09-11125	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	14.5	—	—	3.3	µg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	45.6	—	—	3.3	µg/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	14.8	—	—	3.3	µg/L	Y	—	NQ	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	07/07/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.7	—	—	3.3	µg/L	Y	J	J	09-2568	CALA-09-11127	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.96	—	—	0.01	SU	Y	H	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.13	—	—	0.01	SU	Y	H	J-	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.13	—	—	0.01	SU	Y	H	J-	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.83	—	—	0.01	SU	Y	H	J-	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.91	—	—	0.01	SU	Y	H	J-	09-2582	CALA-09-11152	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	78.1	—	—	0.725	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	74.8	—	—	0.73	mg/L	Y	—	NQ	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	78.5	—	—	0.73	mg/L	Y	—	NQ	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	75.8	—	—	0.73	mg/L	Y	—	NQ	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	77	—	—	0.73	mg/L	Y	—	NQ	09-2582	CALA-09-11152	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00817	0.00578	0.0282	—	pCi/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0112	0.0046	0.027	—	pCi/L	Y	U	U	11-1725	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/20/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00701	0.0035	0.035	—	pCi/L	Y	U	U	10-4278	CALA-10-25221	GELC
LAOI-3.2a	181.4	01/08/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.000673	0.0018	0.027	—	pCi/L	Y	U	U	10-1185	CALA-10-9171	GELC
LAOI-3.2a	181.4	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00741	0.0057	0.035	—	pCi/L	Y	U	U	09-2583	CALA-09-11150	GELC

Table C-2 TA-21 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
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0248	—	—	0.017	mg/L	Y	J	J	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.015	mg/L	Y	U	U	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	UJ	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.059	—	—	0.016	mg/L	Y	—	U	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	09-2582	CALA-09-11152	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	18.6	—	—	1	µg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	18	—	—	1	µg/L	Y	—	NQ	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	18.6	—	—	1	µg/L	Y	—	NQ	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	18.5	—	—	1	µg/L	Y	—	NQ	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	18.4	—	—	1	µg/L	Y	—	NQ	09-2582	CALA-09-11152	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.558	—	—	0.067	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.454	—	—	0.066	mg/L	Y	—	NQ	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.407	—	—	0.066	mg/L	Y	—	NQ	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.343	—	—	0.066	mg/L	Y	—	NQ	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.318	—	—	0.066	mg/L	Y	—	NQ	09-2582	CALA-09-11152	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	25.3	—	—	0.05	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	23.9	—	—	0.05	mg/L	Y	—	NQ	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	24.6	—	—	0.05	mg/L	Y	—	NQ	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	24.5	—	—	0.05	mg/L	Y	—	NQ	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	24.5	—	—	0.05	mg/L	Y	—	NQ	09-2582	CALA-09-11152	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.177	1.86	7.04	—	pCi/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.00176	1.5	4.9	—	pCi/L	Y	U	U	11-1725	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/20/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.527	0.99	3.2	—	pCi/L	Y	U	U	10-4278	CALA-10-25221	GELC
LAOI-3.2a	181.4	01/08/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.49	1.3	4.4	—	pCi/L	Y	U	U	10-1185	CALA-10-9171	GELC
LAOI-3.2a	181.4	07/08/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.05	1.4	4.4	—	pCi/L	Y	U	U	09-2583	CALA-09-11150	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	21.7	—	—	0.335	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	23.4	—	—	0.13	mg/L	Y	—	J+	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	19.2	—	—	0.33	mg/L	Y	—	NQ	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	20.9	—	—	0.33	mg/L	Y	—	NQ	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	20.4	—	—	0.13	mg/L	Y	—	NQ	09-2582	CALA-09-11152	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloromethane	74-87-3	Y	0.34	—	—	0.3	µg/L	Y	J	J	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloromethane	74-87-3	N	1	—	—	0.3	µg/L	Y	U	U	11-1724	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/20/10	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloromethane	74-87-3	N	1	—	—	0.3	µg/L	Y	U	U	10-4278	CALA-10-25221	GELC
LAOI-3.2a	181.4	01/08/10	WG	UF	INIT	FD	VOC	SW-846:8260B	Chloromethane	74-87-3	N	1	—	—	0.3	µg/L	Y	U	U	10-1184	CALA-10-9169	GELC
LAOI-3.2a	181.4	01/08/10	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloromethane	74-87-3	N	1	—	—	0.3	µg/L	Y	U	U	10-1184	CALA-10-9171	GELC
LAOI-3.2a	181.4	07/08/09	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloromethane	74-87-3	Y	0.34	—	—	0.3	µg/L	Y	J	J	09-2581	CALA-09-11150	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.22	—	—	2	µg/L	Y	J	J	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.14	—	—	2	µg/L	Y	J	J	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.05	—	—	2.5	µg/L	Y	J	J	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.06	—	—	2.5	µg/L	Y	J	J	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2.5	µg/L	Y	U	U	09-2582	CALA-09-11152	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1	1.76	7.44	—	pCi/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.01	1.4	4.9	—	pCi/L	Y	U	U	11-1725	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/20/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.156	1.2	3.9	—	pCi/L	Y	U	U	10-4278	CALA-10-25221	GELC
LAOI-3.2a	181.4	01/08/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.8	1.4	4.9	—	pCi/L	Y	U	U	10-1185	CALA-10-9171	GELC
LAOI-3.2a	181.4	07/08/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.52	1.5	5.4	—	pCi/L	Y	U	U	09-2583	CALA-09-11150	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.111	—	—	0.033	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.128	—	—	0.033	mg/L	Y	—	NQ	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0951	—	—	0.033	mg/L	Y	J	J	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.227	—	—	0.033	mg/L	Y	—	NQ	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.189	—	—	0.033	mg/L	Y	—	NQ	09-2582	CALA-09-11152	GELC

Table C-2 TA-21 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
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	2.92	0.983	2.07	—	pCi/L	Y	—	J	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.215	0.48	2.2	—	pCi/L	Y	U	U	11-1725	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/20/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.53	1	2.4	—	pCi/L	Y	—	U	10-4278	CALA-10-25221	GELC
LAOI-3.2a	181.4	07/08/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	2.75	0.88	2.1	—	pCi/L	Y	—	NQ	09-2583	CALA-09-11150	GELC
LAOI-3.2a	181.4	07/30/07	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	1.89	0.662	1.72	—	pCi/L	Y	—	J	190642	GU07070GI32A01	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	11.1	1.37	2.99	—	pCi/L	Y	—	J	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	8.89	1.4	2.4	—	pCi/L	Y	—	NQ	11-1725	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/20/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	9.63	1.5	2.8	—	pCi/L	Y	—	NQ	10-4278	CALA-10-25221	GELC
LAOI-3.2a	181.4	07/08/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	10.9	1.6	2.6	—	pCi/L	Y	—	NQ	09-2583	CALA-09-11150	GELC
LAOI-3.2a	181.4	07/30/07	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	10	1.5	3.29	—	pCi/L	Y	—	—	190642	GU07070GI32A01	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	85.5	—	—	0.453	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	80.2	—	—	0.45	mg/L	Y	—	NQ	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	83.5	—	—	0.35	mg/L	Y	—	NQ	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	83.1	—	—	0.35	mg/L	Y	—	NQ	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	83.1	—	—	0.35	mg/L	Y	—	NQ	09-2582	CALA-09-11152	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.42	—	—	0.11	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.97	—	—	0.11	mg/L	Y	—	NQ	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.34	—	—	0.085	mg/L	Y	—	NQ	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.31	—	—	0.085	mg/L	Y	—	NQ	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.35	—	—	0.085	mg/L	Y	—	J	09-2582	CALA-09-11152	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.42	—	—	0.165	µg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.998	—	—	0.17	µg/L	Y	—	U	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.585	—	—	0.1	µg/L	Y	—	U	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.424	—	—	0.1	µg/L	Y	J	J	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.406	—	—	0.1	µg/L	Y	J	J	09-2582	CALA-09-11152	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.522	3.83	13.8	—	pCi/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.284	3	10	—	pCi/L	Y	U	U	11-1725	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/20/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.203	2.1	6.8	—	pCi/L	Y	U	U	10-4278	CALA-10-25221	GELC
LAOI-3.2a	181.4	01/08/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-7.87	12	38	—	pCi/L	Y	U	U	10-1185	CALA-10-9171	GELC
LAOI-3.2a	181.4	07/08/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	16	11	35	—	pCi/L	Y	U	U	09-2583	CALA-09-11150	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.03	—	—	0.5	µg/L	Y	J	J	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	1.33	—	—	0.5	µg/L	Y	J	U	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.785	—	—	0.5	µg/L	Y	J	J	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.852	—	—	0.5	µg/L	Y	J	J	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.749	—	—	0.5	µg/L	Y	J	J	09-2582	CALA-09-11152	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.64	—	—	0.085	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.05	—	—	0.05	mg/L	Y	—	NQ	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.78	—	—	0.1	mg/L	Y	—	NQ	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.85	—	—	0.05	mg/L	Y	—	NQ	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.75	—	—	0.05	mg/L	Y	—	NQ	09-2582	CALA-09-11152	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2.31	—	—	0.25	µg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2.82	—	—	0.25	µg/L	Y	—	NQ	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2.84	—	—	0.25	µg/L	Y	—	NQ	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2.96	—	—	0.25	µg/L	Y	—	NQ	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2.85	—	—	0.25	µg/L	Y	—	NQ	09-2582	CALA-09-11152	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00224	0.00671	0.0226	—	pCi/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00182	0.0031	0.023	—	pCi/L	Y	U	U	11-1725	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/20/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00917	0.011	0.016	—	pCi/L	Y	U	U	10-4278	CALA-10-25221	GELC
LAOI-3.2a	181.4	01/08/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0017	0.024	—	pCi/L	Y	U	U	10-1185	CALA-10-9171	GELC
LAOI-3.2a	181.4	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0231	0.014	0.034	—	pCi/L	Y	U	U	09-2583	CALA-09-11150	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00671	0.005	0.0264	—	pCi/L	Y	U	U	12-1555	CALA-12-22818	GELC

Table C-2 TA-21 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
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0109	0.0057	0.034	—	pCi/L	Y	U	U	11-1725	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/20/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00367	0.0037	0.027	—	pCi/L	Y	U	U	10-4278	CALA-10-25221	GELC
LAOI-3.2a	181.4	01/08/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00172	0.0017	0.024	—	pCi/L	Y	U	U	10-1185	CALA-10-9171	GELC
LAOI-3.2a	181.4	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0042	0.0059	0.041	—	pCi/L	Y	U	U	09-2583	CALA-09-11150	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	10.2	—	—	0.05	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	10	—	—	0.05	mg/L	Y	—	NQ	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	10.5	—	—	0.05	mg/L	Y	—	NQ	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	10.2	—	—	0.05	mg/L	Y	—	NQ	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	10.6	—	—	0.05	mg/L	Y	—	NQ	09-2582	CALA-09-11152	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	7.94	24.3	101	—	pCi/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	41.8	20	80	—	pCi/L	Y	U	U	11-1725	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/20/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	18.8	16	55	—	pCi/L	Y	U	U	10-4278	CALA-10-25221	GELC
LAOI-3.2a	181.4	01/08/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	16.5	17	60	—	pCi/L	Y	U	U	10-1185	CALA-10-9171	GELC
LAOI-3.2a	181.4	07/08/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-8.43	17	59	—	pCi/L	Y	U	U	09-2583	CALA-09-11150	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.9	—	—	0.053	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	68.2	—	—	0.053	mg/L	Y	—	NQ	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.9	—	—	0.053	mg/L	Y	—	NQ	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.9	—	—	0.053	mg/L	Y	—	NQ	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	73.7	—	—	0.053	mg/L	Y	—	NQ	09-2582	CALA-09-11152	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	16	—	—	0.1	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15	—	—	0.1	mg/L	Y	—	NQ	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	16.1	—	—	0.1	mg/L	Y	—	NQ	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	16.2	—	—	0.1	mg/L	Y	—	NQ	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	17	—	—	0.1	mg/L	Y	—	NQ	09-2582	CALA-09-11152	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.678	1.69	6.5	—	pCi/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.512	1.5	5	—	pCi/L	Y	U	U	11-1725	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/20/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.446	1.1	3.7	—	pCi/L	Y	U	U	10-4278	CALA-10-25221	GELC
LAOI-3.2a	181.4	01/08/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.48	1.5	4.6	—	pCi/L	Y	U	U	10-1185	CALA-10-9171	GELC
LAOI-3.2a	181.4	07/08/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.772	1.7	5.2	—	pCi/L	Y	U	U	09-2583	CALA-09-11150	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	268	—	—	1	µS/cm	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	269	—	—	1	µS/cm	Y	—	NQ	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	269	—	—	1	µS/cm	Y	—	NQ	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	255	—	—	1	µS/cm	Y	—	NQ	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	258	—	—	1	µS/cm	Y	—	NQ	09-2582	CALA-09-11152	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	152	—	—	1	µg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	152	—	—	1	µg/L	Y	—	NQ	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	159	—	—	1	µg/L	Y	—	NQ	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	153	—	—	1	µg/L	Y	—	NQ	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	159	—	—	1	µg/L	Y	—	NQ	09-2582	CALA-09-11152	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.124	0.137	0.478	—	pCi/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.105	0.064	0.26	—	pCi/L	Y	U	U	11-1725	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/20/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0131	0.13	0.49	—	pCi/L	Y	U	U	10-4278	CALA-10-25221	GELC
LAOI-3.2a	181.4	01/08/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0659	0.14	0.47	—	pCi/L	Y	U	U	10-1185	CALA-10-9171	GELC
LAOI-3.2a	181.4	07/08/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.173	0.12	0.4	—	pCi/L	Y	U	U	09-2583	CALA-09-11150	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.85	—	—	0.133	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.91	—	—	0.1	mg/L	Y	—	NQ	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.97	—	—	0.1	mg/L	Y	—	NQ	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.92	—	—	0.1	mg/L	Y	—	NQ	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.97	—	—	0.1	mg/L	Y	—	NQ	09-2582	CALA-09-11152	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	206	—	—	3.4	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	222	—	—	2.4	mg/L	Y	—	NQ	11-1725	CALA-11-5158	GELC

Table C-2 TA-21 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
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	212	—	—	2.4	mg/L	Y	—	J	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	202	—	—	2.4	mg/L	Y	—	NQ	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	208	—	—	2.4	mg/L	Y	—	NQ	09-2582	CALA-09-11152	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.187	—	—	0.035	mg/L	Y	—	NQ	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0631	—	—	0.035	mg/L	Y	J	J	11-1725	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/20/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	10-4278	CALA-10-25221	GELC
LAOI-3.2a	181.4	01/08/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	UJ	10-1184	CALA-10-9171	GELC
LAOI-3.2a	181.4	07/08/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	09-2581	CALA-09-11150	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.05	—	—	0.33	mg/L	Y	—	NQ	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.926	—	—	0.33	mg/L	Y	J	J	11-1725	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/20/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.84	—	—	0.33	mg/L	Y	J	J	10-4278	CALA-10-25221	GELC
LAOI-3.2a	181.4	01/08/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.2	—	—	0.33	mg/L	Y	—	NQ	10-1184	CALA-10-9171	GELC
LAOI-3.2a	181.4	07/08/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.348	—	—	0.33	mg/L	Y	J	J	09-2581	CALA-09-11150	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	1410	74	170	—	pCi/L	Y	—	NQ	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	1220	140	190	—	pCi/L	Y	—	NQ	11-1725	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/20/10	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	1700	190	120	—	pCi/L	Y	—	NQ	10-4278	CALA-10-25221	GELC
LAOI-3.2a	181.4	01/08/10	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	2140	220	160	—	pCi/L	Y	—	NQ	10-1185	CALA-10-9171	GELC
LAOI-3.2a	181.4	07/08/09	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	1680	180	160	—	pCi/L	Y	—	NQ	09-2583	CALA-09-11150	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.9	—	—	0.067	µg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.82	—	—	0.067	µg/L	Y	—	NQ	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.95	—	—	0.05	µg/L	Y	—	NQ	10-4278	CALA-10-25222	GELC
LAOI-3.2a	181.4	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.84	—	—	0.05	µg/L	Y	—	NQ	10-1185	CALA-10-9172	GELC
LAOI-3.2a	181.4	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.69	—	—	0.05	µg/L	Y	—	NQ	09-2582	CALA-09-11152	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.655	0.0474	0.0851	—	pCi/L	Y	—	J	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.631	0.06	0.054	—	pCi/L	Y	—	NQ	11-1725	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/20/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.649	0.056	0.05	—	pCi/L	Y	—	NQ	10-4278	CALA-10-25221	GELC
LAOI-3.2a	181.4	01/08/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.617	0.059	0.07	—	pCi/L	Y	—	NQ	10-1185	CALA-10-9171	GELC
LAOI-3.2a	181.4	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.621	0.061	0.11	—	pCi/L	Y	—	NQ	09-2583	CALA-09-11150	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0194	0.014	0.036	—	pCi/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.028	0.011	0.034	—	pCi/L	Y	U	U	11-1725	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/20/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0491	0.011	0.024	—	pCi/L	Y	—	NQ	10-4278	CALA-10-25221	GELC
LAOI-3.2a	181.4	01/08/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0434	0.014	0.04	—	pCi/L	Y	—	NQ	10-1185	CALA-10-9171	GELC
LAOI-3.2a	181.4	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0646	0.016	0.051	—	pCi/L	Y	—	NQ	09-2583	CALA-09-11150	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.601	0.0441	0.0424	—	pCi/L	Y	—	J	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.547	0.054	0.037	—	pCi/L	Y	—	NQ	11-1725	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/20/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.63	0.055	0.03	—	pCi/L	Y	—	NQ	10-4278	CALA-10-25221	GELC
LAOI-3.2a	181.4	01/08/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.584	0.056	0.046	—	pCi/L	Y	—	NQ	10-1185	CALA-10-9171	GELC
LAOI-3.2a	181.4	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.553	0.055	0.052	—	pCi/L	Y	—	NQ	09-2583	CALA-09-11150	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.55	—	—	0.01	SU	Y	H	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.54	—	—	0.01	SU	Y	H	J-	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.36	—	—	0.01	SU	Y	H	J-	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.34	—	—	0.01	SU	Y	H	J-	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.36	—	—	0.01	SU	Y	H	J-	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	55	—	—	0.725	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	53.7	—	—	0.73	mg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	54.9	—	—	0.73	mg/L	Y	—	NQ	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	52.2	—	—	0.73	mg/L	Y	—	NQ	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	53.6	—	—	0.73	mg/L	Y	—	NQ	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00379	0.00599	0.0261	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00314	0.0025	0.029	—	pCi/L	Y	U	U	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/26/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00161	0.0024	0.035	—	pCi/L	Y	U	U	10-4364	CALA-10-25225	GELC

Table C-2 TA-21 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
LAOI-7	240	01/14/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00231	0.008	0.027	—	pCi/L	Y	U	U	10-1276	CALA-10-9165	GELC
LAOI-7	240	07/13/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0118	0.016	0.039	—	pCi/L	Y	U	U	09-2616	CALA-09-11155	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0663	—	—	0.017	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.03	—	—	0.015	mg/L	Y	J	J	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.035	—	—	0.016	mg/L	Y	J	U	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	UJ	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24.6	—	—	1	µg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	26.2	—	—	1	µg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	26.2	—	—	1	µg/L	Y	—	NQ	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	25.6	—	—	1	µg/L	Y	—	NQ	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	27.7	—	—	1	µg/L	Y	—	NQ	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	16.2	—	—	0.05	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18	—	—	0.05	mg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.2	—	—	0.05	mg/L	Y	—	NQ	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.7	—	—	0.05	mg/L	Y	—	NQ	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17	—	—	0.05	mg/L	Y	—	NQ	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.18	1.52	4.84	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.36	1.6	3.8	—	pCi/L	Y	U	U	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/26/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.744	1.2	4.1	—	pCi/L	Y	U	U	10-4364	CALA-10-25225	GELC
LAOI-7	240	01/14/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.41	1.5	4.7	—	pCi/L	Y	U	U	10-1276	CALA-10-9165	GELC
LAOI-7	240	07/13/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.629	1.5	5.2	—	pCi/L	Y	U	U	09-2616	CALA-09-11155	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.56	—	—	0.067	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	28	—	—	0.13	mg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	28.5	—	—	0.13	mg/L	Y	—	NQ	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	23.6	—	—	0.33	mg/L	Y	—	NQ	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	27.3	—	—	0.13	mg/L	Y	—	NQ	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.19	—	—	2	µg/L	Y	J	J	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.77	—	—	2	µg/L	Y	J	J	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.7	—	—	2.5	µg/L	Y	J	J	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2.5	µg/L	Y	U	U	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.08	—	—	2.5	µg/L	Y	J	J	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.523	1.41	5.9	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.93	1.9	7.8	—	pCi/L	Y	U	U	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/26/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.45	1.4	4.2	—	pCi/L	Y	U	U	10-4364	CALA-10-25225	GELC
LAOI-7	240	01/14/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.989	1.2	3.5	—	pCi/L	Y	U	U	10-1276	CALA-10-9165	GELC
LAOI-7	240	07/13/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.404	1.5	4.8	—	pCi/L	Y	U	U	09-2616	CALA-09-11155	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.316	—	—	0.033	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.211	—	—	0.033	mg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.177	—	—	0.033	mg/L	Y	—	NQ	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.149	—	—	0.033	mg/L	Y	—	NQ	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.221	—	—	0.033	mg/L	Y	—	NQ	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.33	0.743	2.24	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.158	0.52	2.4	—	pCi/L	Y	U	U	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/26/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.393	0.55	2.3	—	pCi/L	Y	U	U	10-4364	CALA-10-25225	GELC
LAOI-7	240	07/13/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.15	0.83	2.8	—	pCi/L	Y	U	U	09-2616	CALA-09-11155	GELC
LAOI-7	240	07/19/07	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.71	0.926	2.95	—	pCi/L	Y	U	U	190027	GU07070LAOI701	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.16	0.919	2.9	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.65	1.3	2.9	—	pCi/L	Y	—	NQ	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/26/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3	0.86	2.2	—	pCi/L	Y	—	NQ	10-4364	CALA-10-25225	GELC
LAOI-7	240	07/13/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.44	1.2	3.4	—	pCi/L	Y	—	NQ	09-2616	CALA-09-11155	GELC

Table C-2 TA-21 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
LAOI-7	240	07/19/07	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.45	0.85	2.32	—	pCi/L	Y	—	J	190027	GU07070LAOI701	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	68.3	—	—	0.453	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	76.3	—	—	0.45	mg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	74.2	—	—	0.35	mg/L	Y	—	NQ	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	76	—	—	0.35	mg/L	Y	—	NQ	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	73	—	—	0.35	mg/L	Y	—	NQ	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.78	—	—	0.11	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.61	—	—	0.11	mg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.6	—	—	0.085	mg/L	Y	—	NQ	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.7	—	—	0.085	mg/L	Y	E	NQ	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.39	—	—	0.085	mg/L	Y	—	NQ	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	3.76	—	—	2	µg/L	Y	J	J	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	6.31	—	—	2	µg/L	Y	J	J	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	12.6	—	—	2	µg/L	Y	—	NQ	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	5.25	—	—	2	µg/L	Y	J	J	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	7.76	—	—	2	µg/L	Y	J	J	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.969	—	—	0.165	µg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.03	—	—	0.17	µg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.883	—	—	0.1	µg/L	Y	—	NQ	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.05	—	—	0.1	µg/L	Y	—	NQ	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.04	—	—	0.1	µg/L	Y	—	NQ	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.64	2.81	9.83	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.897	3.8	13	—	pCi/L	Y	U	U	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/26/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.457	2.8	9.4	—	pCi/L	Y	U	U	10-4364	CALA-10-25225	GELC
LAOI-7	240	01/14/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	14.2	12	40	—	pCi/L	Y	U	U	10-1276	CALA-10-9165	GELC
LAOI-7	240	07/13/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	19	12	41	—	pCi/L	Y	U	U	09-2616	CALA-09-11155	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.94	—	—	0.5	µg/L	Y	J	J	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.75	—	—	0.5	µg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.04	—	—	0.5	µg/L	Y	—	NQ	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.54	—	—	0.5	µg/L	Y	J	J	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.25	—	—	0.5	µg/L	Y	—	NQ	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.292	—	—	0.017	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.311	—	—	0.05	mg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.312	—	—	0.05	mg/L	Y	—	J	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.295	—	—	0.05	mg/L	Y	—	J	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.276	—	—	0.05	mg/L	Y	—	NQ	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.814	—	—	0.05	µg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.756	—	—	0.05	µg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.684	—	—	0.05	µg/L	Y	—	NQ	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.755	—	—	0.05	µg/L	Y	—	NQ	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.66	—	—	0.05	µg/L	Y	—	NQ	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00771	0.0208	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.002	0.025	—	pCi/L	Y	U	U	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/26/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00214	0.0048	0.024	—	pCi/L	Y	U	U	10-4364	CALA-10-25225	GELC
LAOI-7	240	01/14/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0018	0.025	—	pCi/L	Y	U	U	10-1276	CALA-10-9165	GELC
LAOI-7	240	07/13/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00888	0.013	0.035	—	pCi/L	Y	U	U	09-2616	CALA-09-11155	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00206	0.00545	0.0244	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	4.85E-10	0.005	0.038	—	pCi/L	Y	U	U	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/26/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00214	0.0048	0.035	—	pCi/L	Y	U	U	10-4364	CALA-10-25225	GELC
LAOI-7	240	01/14/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00183	0.0018	0.026	—	pCi/L	Y	U	U	10-1276	CALA-10-9165	GELC
LAOI-7	240	07/13/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00222	0.0067	0.043	—	pCi/L	Y	U	U	09-2616	CALA-09-11155	GELC

Table C-2 TA-21 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
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.99	—	—	0.05	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.68	—	—	0.05	mg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.38	—	—	0.05	mg/L	Y	—	NQ	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.57	—	—	0.05	mg/L	Y	—	NQ	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.98	—	—	0.05	mg/L	Y	—	NQ	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-21.4	18.8	71	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	29.7	23	89	—	pCi/L	Y	U	U	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/26/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	49.5	23	79	—	pCi/L	Y	U	U	10-4364	CALA-10-25225	GELC
LAOI-7	240	01/14/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	25.3	20	74	—	pCi/L	Y	U	U	10-1276	CALA-10-9165	GELC
LAOI-7	240	07/13/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-39.5	20	62	—	pCi/L	Y	U	U	09-2616	CALA-09-11155	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	56.6	—	—	0.053	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	55.1	—	—	0.053	mg/L	Y	—	J+	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	56.1	—	—	0.053	mg/L	Y	—	NQ	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	56.4	—	—	0.053	mg/L	Y	—	NQ	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	59.8	—	—	0.053	mg/L	Y	—	NQ	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.7	—	—	0.1	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.1	—	—	0.1	mg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.8	—	—	0.1	mg/L	Y	—	NQ	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.3	—	—	0.1	mg/L	Y	—	NQ	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.4	—	—	0.1	mg/L	Y	—	NQ	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.12	1.75	6.04	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	3.3	2	8	—	pCi/L	Y	U	U	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/26/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.15	1.5	5.1	—	pCi/L	Y	U	U	10-4364	CALA-10-25225	GELC
LAOI-7	240	01/14/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.759	1.4	4.9	—	pCi/L	Y	U	U	10-1276	CALA-10-9165	GELC
LAOI-7	240	07/13/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.753	1.3	4.5	—	pCi/L	Y	U	U	09-2616	CALA-09-11155	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	215	—	—	1	µS/cm	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	241	—	—	1	µS/cm	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	234	—	—	1	µS/cm	Y	—	NQ	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	200	—	—	1	µS/cm	Y	—	NQ	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	236	—	—	1	µS/cm	Y	—	NQ	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	90.5	—	—	1	µg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	100	—	—	1	µg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	95.9	—	—	1	µg/L	Y	—	NQ	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	93.5	—	—	1	µg/L	Y	—	NQ	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	94.5	—	—	1	µg/L	Y	—	NQ	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.086	0.135	0.49	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.226	0.16	0.53	—	pCi/L	Y	U	U	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/26/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.217	0.15	0.49	—	pCi/L	Y	U	U	10-4364	CALA-10-25225	GELC
LAOI-7	240	01/14/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0451	0.12	0.45	—	pCi/L	Y	U	U	10-1276	CALA-10-9165	GELC
LAOI-7	240	07/13/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.132	0.13	0.44	—	pCi/L	Y	U	U	09-2616	CALA-09-11155	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.76	—	—	0.133	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	11.6	—	—	0.1	mg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	10.9	—	—	0.1	mg/L	Y	—	NQ	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	10.5	—	—	0.1	mg/L	Y	—	NQ	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	11.1	—	—	0.1	mg/L	Y	—	NQ	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	170	—	—	3.4	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	168	—	—	2.4	mg/L	Y	—	J	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	203	—	—	2.4	mg/L	Y	—	J	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	184	—	—	2.4	mg/L	Y	—	NQ	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	185	—	—	2.4	mg/L	Y	—	NQ	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.17	—	—	0.33	mg/L	Y	—	NQ	12-1550	CALA-12-22894	GELC

Table C-2 TA-21 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
LAOI-7	240	03/10/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.849	—	—	0.33	mg/L	Y	J	J	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/26/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.21	—	—	0.33	mg/L	Y	—	NQ	10-4364	CALA-10-25225	GELC
LAOI-7	240	01/14/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.24	—	—	0.33	mg/L	Y	—	NQ	10-1275	CALA-10-9165	GELC
LAOI-7	240	07/13/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.95	—	—	0.33	mg/L	Y	J	J	09-2614	CALA-09-11155	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0394	—	—	0.017	mg/L	Y	J	J	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.036	—	—	0.015	mg/L	Y	J	U	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.08	—	—	0.015	mg/L	Y	—	NQ	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.078	—	—	0.015	mg/L	Y	—	U	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.046	—	—	0.015	mg/L	Y	J	J	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	699	56.6	105	—	pCi/L	Y	—	NQ	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	721	100	140	—	pCi/L	Y	—	NQ	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/26/10	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	754	95	120	—	pCi/L	Y	—	NQ	10-4364	CALA-10-25225	GELC
LAOI-7	240	01/14/10	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	952	110	160	—	pCi/L	Y	—	NQ	10-1276	CALA-10-9165	GELC
LAOI-7	240	07/13/09	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	776	99	170	—	pCi/L	Y	—	NQ	09-2616	CALA-09-11155	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.68	—	—	0.067	µg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.622	—	—	0.067	µg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.632	—	—	0.05	µg/L	Y	—	NQ	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.768	—	—	0.05	µg/L	Y	—	NQ	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.694	—	—	0.05	µg/L	Y	—	NQ	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.267	0.0339	0.0942	—	pCi/L	Y	—	NQ	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.294	0.034	0.051	—	pCi/L	Y	—	NQ	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/26/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.304	0.035	0.067	—	pCi/L	Y	—	NQ	10-4364	CALA-10-25225	GELC
LAOI-7	240	01/14/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.257	0.032	0.073	—	pCi/L	Y	—	NQ	10-1276	CALA-10-9165	GELC
LAOI-7	240	07/13/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.279	0.035	0.11	—	pCi/L	Y	—	NQ	09-2616	CALA-09-11155	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0086	0.0136	0.0399	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0207	0.008	0.033	—	pCi/L	Y	U	U	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/26/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0123	0.0062	0.034	—	pCi/L	Y	U	U	10-4364	CALA-10-25225	GELC
LAOI-7	240	01/14/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0289	0.0099	0.041	—	pCi/L	Y	U	U	10-1276	CALA-10-9165	GELC
LAOI-7	240	07/13/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0274	0.0099	0.052	—	pCi/L	Y	U	U	09-2616	CALA-09-11155	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.188	0.0265	0.0469	—	pCi/L	Y	—	NQ	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.211	0.027	0.035	—	pCi/L	Y	—	NQ	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/26/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.252	0.031	0.029	—	pCi/L	Y	—	NQ	10-4364	CALA-10-25225	GELC
LAOI-7	240	01/14/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.224	0.029	0.048	—	pCi/L	Y	—	NQ	10-1276	CALA-10-9165	GELC
LAOI-7	240	07/13/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.222	0.03	0.052	—	pCi/L	Y	—	NQ	09-2616	CALA-09-11155	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.65	—	—	1	µg/L	Y	J	J	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.23	—	—	1	µg/L	Y	J	J	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.71	—	—	1	µg/L	Y	J	J	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.71	—	—	1	µg/L	Y	J	J	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.91	—	—	1	µg/L	Y	J	J	09-2615	CALA-09-11153	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	6.97	—	—	3.3	µg/L	Y	J	J	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.98	—	—	3.3	µg/L	Y	J	J	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	5.69	—	—	3.3	µg/L	Y	J	J	10-4364	CALA-10-25226	GELC
LAOI-7	240	01/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	7.58	—	—	3.3	µg/L	Y	J	J	10-1276	CALA-10-9166	GELC
LAOI-7	240	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	8.13	—	—	3.3	µg/L	Y	J	J	09-2615	CALA-09-11153	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.07	—	—	0.01	SU	Y	H	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.15	—	—	0.01	SU	Y	H	J-	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	4.14	—	—	0.01	SU	Y	H	J-	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.14	—	—	0.01	SU	Y	H	J-	09-637	CAPU-09-1780	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.01	—	—	0.01	SU	Y	H	J-	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	94.9	—	—	0.725	mg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	94	—	—	0.73	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC

Table C-2 TA-21 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-5 S2	372.8	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	N	1	—	—	0.73	mg/L	Y	U	U	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	92.4	—	—	0.73	mg/L	Y	—	NQ	09-637	CAPU-09-1780	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	94	—	—	0.73	mg/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00276	0.00478	0.0378	—	pCi/L	Y	U	U	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00986	0.0056	0.033	—	pCi/L	Y	U	U	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00359	0.0041	0.037	—	pCi/L	Y	U	U	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00137	0.0033	0.028	—	pCi/L	Y	U	U	08-1778	CAPU-08-14776	GELC
R-5 S2	372.8	07/16/07	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00129	0.00196	0.0382	—	pCi/L	Y	U	U	189841	GU07070G05R201	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.121	—	—	0.067	mg/L	Y	J	J	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.152	—	—	0.066	mg/L	Y	J	J	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.125	—	—	0.066	mg/L	Y	J	J	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.092	—	—	0.067	mg/L	Y	J	J	09-637	CAPU-09-1780	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.088	—	—	0.067	mg/L	Y	J	J	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.227	1.73	6.33	—	pCi/L	Y	U	U	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.911	1.1	3.6	—	pCi/L	Y	U	U	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.72	1.7	5.2	—	pCi/L	Y	U	U	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	08/26/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.18	1.4	4.9	—	pCi/L	Y	U	U	08-1778	CAPU-08-14776	GELC
R-5 S2	372.8	07/16/07	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.57	1.51	4.52	—	pCi/L	Y	U	U	189841	GU07070G05R201	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.61	—	—	0.067	mg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.22	—	—	0.066	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.24	—	—	0.066	mg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.94	—	—	0.066	mg/L	Y	—	NQ	09-637	CAPU-09-1780	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.81	—	—	0.066	mg/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.763	1.89	7.44	—	pCi/L	Y	U	U	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.287	1.4	4.6	—	pCi/L	Y	U	U	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.324	1.5	5.2	—	pCi/L	Y	U	U	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	08/26/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.0986	1.5	5.1	—	pCi/L	Y	U	U	08-1778	CAPU-08-14776	GELC
R-5 S2	372.8	07/16/07	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.3	1.46	4.87	—	pCi/L	Y	U	U	189841	GU07070G05R201	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	1.01	—	—	0.033	mg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	1.03	—	—	0.033	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	1.1	—	—	0.033	mg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	1.05	—	—	0.033	mg/L	Y	—	NQ	09-637	CAPU-09-1780	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	1.1	—	—	0.033	mg/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.93	0.978	2.06	—	pCi/L	Y	—	U	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.301	0.52	2.3	—	pCi/L	Y	U	U	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.28	1.2	3.3	—	pCi/L	Y	U	U	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	07/16/07	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	3.22	1.05	2.74	—	pCi/L	Y	—	J	189841	GU07070G05R201	GELC
R-5 S2	372.8	07/25/06	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	1.72	0.535	1.57	—	pCi/L	Y	—	J-	167998	GU06070G05R201	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	26.1	1.81	2.9	—	pCi/L	Y	—	NQ	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.9	1.2	2.9	—	pCi/L	Y	—	NQ	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.01	1.4	3.4	—	pCi/L	Y	—	NQ	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	07/16/07	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.4	0.99	2.95	—	pCi/L	Y	—	J	189841	GU07070G05R201	GELC
R-5 S2	372.8	07/25/06	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.68	0.667	2.3	—	pCi/L	Y	—	J	167998	GU06070G05R201	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.56	2.84	9.88	—	pCi/L	Y	U	U	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.694	2.5	8	—	pCi/L	Y	U	U	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	30.2	12	40	—	pCi/L	Y	U	U	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	08/26/08	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-18.1	11	32	—	pCi/L	Y	U	U	08-1778	CAPU-08-14776	GELC
R-5 S2	372.8	07/16/07	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-21.1	11.7	31.3	—	pCi/L	Y	U	U	189841	GU07070G05R201	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.52	—	—	0.17	mg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.87	—	—	0.05	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.01	—	—	0.1	mg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC

Table C-2 TA-21 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-5 S2	372.8	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.6	—	—	0.1	mg/L	Y	—	NQ	09-637	CAPU-09-1780	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.78	—	—	0.05	mg/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.4	—	—	0.1	µg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.25	—	—	0.1	µg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.45	—	—	0.1	µg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	01/14/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.24	—	—	0.1	µg/L	Y	—	NQ	09-637	CAPU-09-1780	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.27	—	—	0.1	µg/L	Y	—	J	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00979	0.00863	0.022	—	pCi/L	Y	U	U	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00197	0.0034	0.025	—	pCi/L	Y	U	U	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00639	0.0056	0.034	—	pCi/L	Y	U	U	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00338	0.0034	0.024	—	pCi/L	Y	U	U	08-1778	CAPU-08-14776	GELC
R-5 S2	372.8	07/16/07	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00577	0.033	—	pCi/L	Y	U	U	189841	GU07070G05R201	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00326	0.00565	0.0393	—	pCi/L	Y	U	U	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00197	0.0034	0.037	—	pCi/L	Y	U	U	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00213	0.0056	0.042	—	pCi/L	Y	U	U	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0041	0.029	—	pCi/L	Y	U	U	08-1778	CAPU-08-14776	GELC
R-5 S2	372.8	07/16/07	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00942	0.00668	0.0365	—	pCi/L	Y	U	U	189841	GU07070G05R201	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	8.8	21.9	85.5	—	pCi/L	Y	U	U	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	1.32	15	51	—	pCi/L	Y	U	U	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	30.9	16	58	—	pCi/L	Y	U	U	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	08/26/08	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	0.666	19	66	—	pCi/L	Y	U	U	08-1778	CAPU-08-14776	GELC
R-5 S2	372.8	07/16/07	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	4.93	19.2	55.1	—	pCi/L	Y	U	U	189841	GU07070G05R201	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	54.5	—	—	0.053	mg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	53.1	—	—	0.053	mg/L	Y	—	J+	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	53.9	—	—	0.053	mg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	01/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	55.3	—	—	0.032	mg/L	Y	—	NQ	09-637	CAPU-09-1780	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	51.7	—	—	0.032	mg/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.14	1.78	7.19	—	pCi/L	Y	U	U	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.76	0.99	2.2	—	pCi/L	Y	U	U	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.22	1.3	3.8	—	pCi/L	Y	U	U	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	08/26/08	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.925	1.4	4.4	—	pCi/L	Y	U	U	08-1778	CAPU-08-14776	GELC
R-5 S2	372.8	07/16/07	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.00174	1.46	4.33	—	pCi/L	Y	U	U	189841	GU07070G05R201	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	258	—	—	1	µS/cm	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	258	—	—	1	µS/cm	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	336	—	—	1	µS/cm	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	251	—	—	1	µS/cm	Y	—	NQ	09-637	CAPU-09-1780	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	257	—	—	1	µS/cm	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.168	0.0639	0.206	—	pCi/L	Y	U	U	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.1	0.15	0.52	—	pCi/L	Y	U	U	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0946	0.14	0.49	—	pCi/L	Y	U	U	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	08/26/08	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.192	0.061	0.29	—	pCi/L	Y	U	U	08-1778	CAPU-08-14776	GELC
R-5 S2	372.8	07/16/07	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0454	0.0845	0.332	—	pCi/L	Y	U	U	189841	GU07070G05R201	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.76	—	—	0.133	mg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.84	—	—	0.1	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.27	—	—	0.1	mg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.39	—	—	0.1	mg/L	Y	—	J-	09-637	CAPU-09-1780	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.97	—	—	0.1	mg/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	187	—	—	3.4	mg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	171	—	—	2.4	mg/L	Y	—	J	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	316	—	—	2.4	mg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	179	—	—	2.4	mg/L	Y	—	J	09-637	CAPU-09-1780	GELC

Table C-2 TA-21 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-5 S2	372.8	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	203	—	—	2.4	mg/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.438	—	—	0.33	mg/L	Y	J	J	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-1597	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.761	—	—	0.33	mg/L	Y	J	J	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	01/14/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.407	—	—	0.33	mg/L	Y	J	J	09-637	CAPU-09-1781	GELC
R-5 S2	372.8	08/26/08	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	08-1776	CAPU-08-14776	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.186	0.704	2.235	—	pCi/L	Y	U	UJ	12-1528	CAPU-12-22840	ARSL
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-2.1252	0.6762	2.1896	—	pCi/L	N	U	R	11-1655	CAPU-11-5283	ARSL
R-5 S2	372.8	03/09/11	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.2898	0.644	2.1896	—	pCi/L	Y	U	U	11-1655	CAPU-11-5283	ARSL
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.483	0.2898	0.2898	—	pCi/L	Y	—	U	09-2728	CAPU-09-11247	UMTL
R-5 S2	372.8	01/14/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.4508	0.2898	0.2898	—	pCi/L	Y	—	U	09-676	CAPU-09-1781	UMTL
R-5 S2	372.8	08/26/08	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.2254	0.2898	0.2898	—	pCi/L	Y	U	U	08-1779	CAPU-08-14776	UMTL
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.16	0.0545	0.0656	—	pCi/L	Y	—	NQ	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.13	0.1	0.062	—	pCi/L	Y	—	NQ	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.17	0.12	0.18	—	pCi/L	Y	—	NQ	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.1	0.078	0.066	—	pCi/L	Y	—	NQ	08-1778	CAPU-08-14776	GELC
R-5 S2	372.8	07/16/07	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.13	0.0811	0.0294	—	pCi/L	Y	—	—	189841	GU07070G05R201	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0607	0.0155	0.0423	—	pCi/L	Y	—	NQ	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0323	0.012	0.04	—	pCi/L	Y	U	U	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0203	0.015	0.092	—	pCi/L	Y	U	U	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0641	0.015	0.035	—	pCi/L	Y	—	NQ	08-1778	CAPU-08-14776	GELC
R-5 S2	372.8	07/16/07	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.065	0.014	0.0248	—	pCi/L	Y	—	J	189841	GU07070G05R201	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.79	0.0442	0.0333	—	pCi/L	Y	—	NQ	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.836	0.078	0.042	—	pCi/L	Y	—	NQ	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.95	0.1	0.092	—	pCi/L	Y	—	NQ	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.819	0.062	0.035	—	pCi/L	Y	—	NQ	08-1778	CAPU-08-14776	GELC
R-5 S2	372.8	07/16/07	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.904	0.0681	0.0396	—	pCi/L	Y	—	—	189841	GU07070G05R201	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.1	—	—	0.01	SU	Y	H	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.15	—	—	0.01	SU	Y	H	J-	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.08	—	—	0.01	SU	Y	H	J-	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.19	—	—	0.01	SU	Y	H	J-	09-637	CAPU-09-1794	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8	—	—	0.01	SU	Y	H	J-	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	89.6	—	—	0.725	mg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	89.5	—	—	0.73	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	91.4	—	—	0.73	mg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	95	—	—	0.73	mg/L	Y	—	NQ	09-637	CAPU-09-1794	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	91.3	—	—	0.73	mg/L	Y	—	NQ	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00708	0.0486	—	pCi/L	Y	U	U	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00923	0.0055	0.026	—	pCi/L	Y	U	U	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00485	0.0028	0.034	—	pCi/L	Y	U	U	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	08/27/08	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00012	0.0041	0.024	—	pCi/L	Y	U	U	08-1794	CAPU-08-14801	GELC
R-5 S3	676.9	07/17/07	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00915	0.00447	0.0322	—	pCi/L	Y	U	U	190027	GU07070G05R301	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.124	—	—	0.067	mg/L	Y	J	J	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.139	—	—	0.066	mg/L	Y	J	J	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.13	—	—	0.066	mg/L	Y	J	J	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	UJ	09-637	CAPU-09-1794	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.107	—	—	0.067	mg/L	Y	J	J	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.08	1.9	7.07	—	pCi/L	Y	U	U	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.0667	1.2	4	—	pCi/L	Y	U	U	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.56	1.5	4.2	—	pCi/L	Y	U	U	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	08/27/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.0325	1.2	4	—	pCi/L	Y	U	U	08-1794	CAPU-08-14801	GELC

Table C-2 TA-21 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-5 S3	676.9	07/17/07	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.35	1.16	3.69	—	pCi/L	Y	U	U	190027	GU07070G05R301	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.16	—	—	0.067	mg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.95	—	—	0.066	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.73	—	—	0.066	mg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.84	—	—	0.066	mg/L	Y	—	NQ	09-637	CAPU-09-1794	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.38	—	—	0.066	mg/L	Y	—	NQ	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.121	1.79	7.05	—	pCi/L	Y	U	U	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.711	1.6	5.3	—	pCi/L	Y	U	U	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.86	1.6	4.3	—	pCi/L	Y	U	U	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	08/27/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.45	0.96	3.3	—	pCi/L	Y	U	U	08-1794	CAPU-08-14801	GELC
R-5 S3	676.9	07/17/07	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.71	1.35	4.8	—	pCi/L	Y	U	U	190027	GU07070G05R301	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.595	—	—	0.033	mg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.647	—	—	0.033	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.812	—	—	0.033	mg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.686	—	—	0.033	mg/L	Y	—	NQ	09-637	CAPU-09-1794	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.687	—	—	0.033	mg/L	Y	—	NQ	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.03	0.634	1.87	—	pCi/L	Y	U	U	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	4.36	1.3	2.8	—	pCi/L	Y	—	NQ	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.33	0.86	2.7	—	pCi/L	Y	U	U	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	07/17/07	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.38	0.561	1.47	—	pCi/L	Y	U	U	190027	GU07070G05R301	GELC
R-5 S3	676.9	07/26/06	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	3.06	0.673	1.64	—	pCi/L	Y	—	J-	168163	GU06070G05R301	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.43	1.08	2.89	—	pCi/L	Y	—	NQ	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	6.07	1.2	2.7	—	pCi/L	Y	—	NQ	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.65	1.4	3.8	—	pCi/L	Y	—	NQ	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	07/17/07	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.52	0.933	2.02	—	pCi/L	Y	—	J	190027	GU07070G05R301	GELC
R-5 S3	676.9	07/26/06	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.34	0.928	2.92	—	pCi/L	Y	—	J	168163	GU06070G05R301	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.52	2.9	11.3	—	pCi/L	Y	U	U	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.738	2.4	7.4	—	pCi/L	Y	U	U	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	15	12	41	—	pCi/L	Y	U	U	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	08/27/08	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-18.7	10	33	—	pCi/L	Y	U	U	08-1794	CAPU-08-14801	GELC
R-5 S3	676.9	07/17/07	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.36	12.3	25.1	—	pCi/L	Y	U	U	190027	GU07070G05R301	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.9	—	—	0.085	mg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.98	—	—	0.05	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.2	—	—	0.05	mg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.91	—	—	0.05	mg/L	Y	—	NQ	09-637	CAPU-09-1794	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.13	—	—	0.05	mg/L	Y	—	NQ	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.3	—	—	0.1	µg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.25	—	—	0.1	µg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.2	—	—	0.1	µg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	01/14/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.19	—	—	0.1	µg/L	Y	—	NQ	09-637	CAPU-09-1794	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.36	—	—	0.1	µg/L	Y	—	NQ	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00232	0.0052	0.0156	—	pCi/L	Y	U	U	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00767	0.0086	0.024	—	pCi/L	Y	U	U	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00239	0.0063	0.038	—	pCi/L	Y	U	U	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	08/27/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00456	0.013	0.032	—	pCi/L	Y	U	U	08-1794	CAPU-08-14801	GELC
R-5 S3	676.9	07/17/07	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00197	0.00441	0.0276	—	pCi/L	Y	U	U	190027	GU07070G05R301	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00465	0.00465	0.028	—	pCi/L	Y	U	U	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00575	0.0064	0.036	—	pCi/L	Y	U	U	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00239	0.0034	0.047	—	pCi/L	Y	U	U	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	08/27/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00683	0.0094	0.039	—	pCi/L	Y	U	U	08-1794	CAPU-08-14801	GELC
R-5 S3	676.9	07/17/07	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00987	0.00594	0.0306	—	pCi/L	Y	U	U	190027	GU07070G05R301	GELC

Table C-2 TA-21 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-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-33	24	86.5	—	pCi/L	Y	U	U	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-27.5	16	53	—	pCi/L	Y	U	U	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	15.1	21	70	—	pCi/L	Y	U	U	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	08/27/08	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-18.6	16	56	—	pCi/L	Y	U	U	08-1794	CAPU-08-14801	GELC
R-5 S3	676.9	07/17/07	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	0.686	11.1	28.7	—	pCi/L	Y	U	U	190027	GU07070G05R301	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	48.9	—	—	0.053	mg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	50.2	—	—	0.053	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	48.8	—	—	0.053	mg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	01/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	48	—	—	0.032	mg/L	Y	—	NQ	09-637	CAPU-09-1794	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	47.4	—	—	0.032	mg/L	Y	—	NQ	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.65	1.9	6.54	—	pCi/L	Y	U	U	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.93	1.3	2.9	—	pCi/L	Y	U	U	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.0672	1.5	5.1	—	pCi/L	Y	U	U	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	08/27/08	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.88	1.6	5.7	—	pCi/L	Y	U	U	08-1794	CAPU-08-14801	GELC
R-5 S3	676.9	07/17/07	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.555	1.21	4.1	—	pCi/L	Y	U	U	190027	GU07070G05R301	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	258	—	—	1	µS/cm	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	263	—	—	1	µS/cm	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	260	—	—	1	µS/cm	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	262	—	—	1	µS/cm	Y	—	NQ	09-637	CAPU-09-1794	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	256	—	—	1	µS/cm	Y	—	NQ	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.035	0.0622	0.216	—	pCi/L	Y	U	U	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.236	0.16	0.52	—	pCi/L	Y	U	U	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.15	0.12	0.41	—	pCi/L	Y	U	U	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	08/27/08	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.136	0.14	0.48	—	pCi/L	Y	U	U	08-1794	CAPU-08-14801	GELC
R-5 S3	676.9	07/17/07	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0696	0.0863	0.297	—	pCi/L	Y	U	U	190027	GU07070G05R301	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	15.3	—	—	0.133	mg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	16.8	—	—	0.1	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	16.2	—	—	0.1	mg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	16.7	—	—	0.1	mg/L	Y	—	NQ	09-637	CAPU-09-1794	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	15.5	—	—	0.1	mg/L	Y	—	J-	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	179	—	—	3.4	mg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	176	—	—	2.4	mg/L	Y	—	J	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	194	—	—	2.4	mg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	187	—	—	2.4	mg/L	Y	—	J	09-637	CAPU-09-1794	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	195	—	—	2.4	mg/L	Y	—	NQ	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.436	—	—	0.33	mg/L	Y	J	J	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.427	—	—	0.33	mg/L	Y	J	J	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	01/14/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.338	—	—	0.33	mg/L	Y	J	J	09-637	CAPU-09-1795	GELC
R-5 S3	676.9	08/27/08	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	08-1794	CAPU-08-14801	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.696	0.658	2.162	—	pCi/L	Y	U	UJ	12-1528	CAPU-12-22841	ARSL
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	2.7692	0.7728	1.9964	—	pCi/L	N	—	R	11-1655	CAPU-11-5301	ARSL
R-5 S3	676.9	03/10/11	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.4186	0.6118	1.9964	—	pCi/L	Y	U	U	11-1655	CAPU-11-5301	ARSL
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.0322	0.2898	0.2898	—	pCi/L	Y	U	U	09-2728	CAPU-09-11252	UMTL
R-5 S3	676.9	01/14/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.0966	0.2898	0.2898	—	pCi/L	Y	U	U	09-676	CAPU-09-1795	UMTL
R-5 S3	676.9	08/27/08	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0	0.966	3.28118	—	pCi/L	N	U	R	08-1842	CAPU-08-14801	ARSL
R-5 S3	676.9	08/27/08	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.5474	0.966	3.3488	—	pCi/L	Y	U	U	08-1842	CAPU-08-14801	ARSL
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.06	0.0515	0.0638	—	pCi/L	Y	—	NQ	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.939	0.084	0.058	—	pCi/L	Y	—	NQ	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.974	0.11	0.19	—	pCi/L	Y	—	NQ	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	08/27/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.05	0.077	0.072	—	pCi/L	Y	—	NQ	08-1794	CAPU-08-14801	GELC

Table C-2 TA-21 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-5 S3	676.9	07/17/07	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.12	0.0817	0.0313	—	pCi/L	Y	—	—	190027	GU07070G05R301	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0354	0.0132	0.0412	—	pCi/L	Y	U	U	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0339	0.011	0.037	—	pCi/L	Y	U	U	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0208	0.015	0.094	—	pCi/L	Y	U	U	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	08/27/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0387	0.01	0.038	—	pCi/L	Y	—	NQ	08-1794	CAPU-08-14801	GELC
R-5 S3	676.9	07/17/07	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0525	0.013	0.0263	—	pCi/L	Y	—	J	190027	GU07070G05R301	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.551	0.037	0.0323	—	pCi/L	Y	—	NQ	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.551	0.055	0.04	—	pCi/L	Y	—	NQ	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.518	0.068	0.094	—	pCi/L	Y	—	NQ	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	08/27/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.558	0.047	0.038	—	pCi/L	Y	—	NQ	08-1794	CAPU-08-14801	GELC
R-5 S3	676.9	07/17/07	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.639	0.0529	0.0421	—	pCi/L	Y	—	—	190027	GU07070G05R301	GELC
R-5 S4	858.7	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.07	—	—	0.01	SU	Y	H	NQ	12-1526	CAPU-12-22845	GELC
R-5 S4	858.7	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.99	—	—	0.01	SU	Y	H	J-	11-1598	CAPU-11-5306	GELC
R-5 S4	858.7	07/23/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.91	—	—	0.01	SU	Y	H	J-	09-2726	CAPU-09-11253	GELC
R-5 S4	858.7	01/12/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.96	—	—	0.01	SU	Y	H	J-	09-617	CAPU-09-14362	GELC
R-5 S4	858.7	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.88	—	—	0.01	SU	Y	H	J-	08-1777	CAPU-08-16499	GELC
R-5 S4	858.7	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	120	—	—	0.725	mg/L	Y	—	NQ	12-1526	CAPU-12-22845	GELC
R-5 S4	858.7	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	116	—	—	0.73	mg/L	Y	—	NQ	11-1598	CAPU-11-5306	GELC
R-5 S4	858.7	07/23/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	116	—	—	0.73	mg/L	Y	—	NQ	09-2726	CAPU-09-11253	GELC
R-5 S4	858.7	01/12/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	119	—	—	0.73	mg/L	Y	—	NQ	09-617	CAPU-09-14362	GELC
R-5 S4	858.7	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	117	—	—	0.73	mg/L	Y	—	NQ	08-1777	CAPU-08-16499	GELC
R-5 S4	858.7	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0116	0.0071	0.0397	—	pCi/L	Y	U	U	12-1526	CAPU-12-22842	GELC
R-5 S4	858.7	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00497	0.004	0.029	—	pCi/L	Y	U	U	11-1598	CAPU-11-5304	GELC
R-5 S4	858.7	07/23/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0071	0.0042	0.043	—	pCi/L	Y	U	U	09-2726	CAPU-09-11255	GELC
R-5 S4	858.7	05/04/05	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0191	0.00713	0.034	—	pCi/L	Y	U	U	136031	GU0504G05R401	GELC
R-5 S4	858.7	09/30/04	WG	UF	INIT	REG	RAD	Generic:Alpha-Spec	Americium-241	Am-241	N	6.17E-10	0.00634	0.041	—	pCi/L	Y	U	U	122723	GU0409G05R401	GELC
R-5 S4	858.7	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.964	1.28	4.94	—	pCi/L	Y	U	U	12-1526	CAPU-12-22842	GELC
R-5 S4	858.7	03/09/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.0216	1.5	4.8	—	pCi/L	Y	U	U	11-1598	CAPU-11-5304	GELC
R-5 S4	858.7	07/23/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.718	1.6	5.3	—	pCi/L	Y	U	U	09-2726	CAPU-09-11255	GELC
R-5 S4	858.7	05/04/05	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.312	1.24	4.58	—	pCi/L	Y	U	U	136031	GU0504G05R401	GELC
R-5 S4	858.7	09/30/04	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.998	1.22	4.13	—	pCi/L	Y	U	U	122723	GU0409G05R401	GELC
R-5 S4	858.7	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	4.77	—	—	0.067	mg/L	Y	—	NQ	12-1526	CAPU-12-22845	GELC
R-5 S4	858.7	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	5.29	—	—	0.066	mg/L	Y	—	NQ	11-1598	CAPU-11-5306	GELC
R-5 S4	858.7	07/23/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	5.02	—	—	0.066	mg/L	Y	—	NQ	09-2726	CAPU-09-11253	GELC
R-5 S4	858.7	01/12/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	5.53	—	—	0.066	mg/L	Y	—	J+	09-617	CAPU-09-14362	GELC
R-5 S4	858.7	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	5.1	—	—	0.066	mg/L	Y	—	NQ	08-1777	CAPU-08-16499	GELC
R-5 S4	858.7	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.51	1.19	5.13	—	pCi/L	Y	U	U	12-1526	CAPU-12-22842	GELC
R-5 S4	858.7	03/09/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.623	1.7	5.6	—	pCi/L	Y	U	U	11-1598	CAPU-11-5304	GELC
R-5 S4	858.7	07/23/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.451	1.5	5.1	—	pCi/L	Y	U	U	09-2726	CAPU-09-11255	GELC
R-5 S4	858.7	05/04/05	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.0419	1.3	4.93	—	pCi/L	Y	U	U	136031	GU0504G05R401	GELC
R-5 S4	858.7	09/30/04	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.698	1.31	4.57	—	pCi/L	Y	U	U	122723	GU0409G05R401	GELC
R-5 S4	858.7	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.21	—	—	0.033	mg/L	Y	—	NQ	12-1526	CAPU-12-22845	GELC
R-5 S4	858.7	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.275	—	—	0.033	mg/L	Y	—	NQ	11-1598	CAPU-11-5306	GELC
R-5 S4	858.7	07/23/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.501	—	—	0.033	mg/L	Y	—	NQ	09-2726	CAPU-09-11253	GELC
R-5 S4	858.7	01/12/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.348	—	—	0.033	mg/L	Y	—	NQ	09-617	CAPU-09-14362	GELC
R-5 S4	858.7	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.296	—	—	0.033	mg/L	Y	—	NQ	08-1777	CAPU-08-16499	GELC
R-5 S4	858.7	08/30/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.19	0.687	2.01	—	pCi/L	Y	U	U	12-1526	CAPU-12-22842	GELC
R-5 S4	858.7	03/09/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.624	0.79	2.9	—	pCi/L	Y	U	U	11-1598	CAPU-11-5304	GELC
R-5 S4	858.7	07/23/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.48	1.2	3.4	—	pCi/L	Y	U	U	09-2726	CAPU-09-11255	GELC
R-5 S4	858.7	05/04/05	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.638	0.482	1.47	—	pCi/L	Y	U	U	136031	GU0504G05R401	GELC
R-5 S4	858.7	08/30/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.81	1.06	2.78	—	pCi/L	Y	—	NQ	12-1526	CAPU-12-22842	GELC

Table C-2 TA-21 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-5 S4	858.7	03/09/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.53	1.3	2.8	—	pCi/L	Y	—	NQ	11-1598	CAPU-11-5304	GELC
R-5 S4	858.7	07/23/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.97	1.3	3.6	—	pCi/L	Y	—	NQ	09-2726	CAPU-09-11255	GELC
R-5 S4	858.7	05/04/05	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.32	0.763	2.75	—	pCi/L	Y	—	J	136031	GU0504G05R401	GELC
R-5 S4	858.7	11/15/01	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.76	0.49	1.1	—	pCi/L	Y	—	NQ	243S	GW05-01-0030	GEL
R-5 S4	858.7	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.8	2.29	7.75	—	pCi/L	Y	U	U	12-1526	CAPU-12-22842	GELC
R-5 S4	858.7	03/09/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.103	2.9	9.2	—	pCi/L	Y	U	U	11-1598	CAPU-11-5304	GELC
R-5 S4	858.7	07/23/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.37	12	35	—	pCi/L	Y	U	U	09-2726	CAPU-09-11255	GELC
R-5 S4	858.7	05/04/05	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.25	5.37	16.5	—	pCi/L	Y	U	U	136031	GU0504G05R401	GELC
R-5 S4	858.7	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.335	—	—	0.017	mg/L	Y	—	NQ	12-1526	CAPU-12-22845	GELC
R-5 S4	858.7	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.356	—	—	0.05	mg/L	Y	—	NQ	11-1598	CAPU-11-5306	GELC
R-5 S4	858.7	07/23/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0898	—	—	0.01	mg/L	Y	—	NQ	09-2726	CAPU-09-11253	GELC
R-5 S4	858.7	01/12/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.273	—	—	0.05	mg/L	Y	—	NQ	09-617	CAPU-09-1807	GELC
R-5 S4	858.7	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0901	—	—	0.01	mg/L	Y	—	J	08-1777	CAPU-08-14853	GELC
R-5 S4	858.7	08/30/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.358	—	—	0.05	µg/L	Y	—	NQ	12-1526	CAPU-12-22845	GELC
R-5 S4	858.7	03/09/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.373	—	—	0.05	µg/L	Y	—	NQ	11-1598	CAPU-11-5306	GELC
R-5 S4	858.7	07/23/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.293	—	—	0.05	µg/L	Y	—	NQ	09-2726	CAPU-09-11253	GELC
R-5 S4	858.7	01/12/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.272	—	—	0.05	µg/L	Y	—	NQ	09-617	CAPU-09-14362	GELC
R-5 S4	858.7	08/26/08	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.279	—	—	0.05	µg/L	Y	—	NQ	08-1777	CAPU-08-16499	GELC
R-5 S4	858.7	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0027	0.00467	0.0182	—	pCi/L	Y	U	U	12-1526	CAPU-12-22842	GELC
R-5 S4	858.7	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	1.23E-10	0.0029	0.026	—	pCi/L	Y	U	U	11-1598	CAPU-11-5304	GELC
R-5 S4	858.7	07/23/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00499	0.0035	0.04	—	pCi/L	Y	U	U	09-2726	CAPU-09-11255	GELC
R-5 S4	858.7	05/04/05	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00212	0.00473	0.044	—	pCi/L	Y	U	U	136031	GU0504G05R401	GELC
R-5 S4	858.7	09/30/04	WG	UF	INIT	REG	RAD	Generic:Alpha-Spec	Plutonium-238	Pu-238	N	0.0189	0.0106	0.037	—	pCi/L	Y	U	U	122723	GU0409G05R401	GELC
R-5 S4	858.7	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0108	0.00763	0.0325	—	pCi/L	Y	U	U	12-1526	CAPU-12-22842	GELC
R-5 S4	858.7	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00206	0.0062	0.039	—	pCi/L	Y	U	U	11-1598	CAPU-11-5304	GELC
R-5 S4	858.7	07/23/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	5.95E-10	0.0061	0.049	—	pCi/L	Y	U	U	09-2726	CAPU-09-11255	GELC
R-5 S4	858.7	05/04/05	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	1.26E-10	0.00299	0.037	—	pCi/L	Y	U	U	136031	GU0504G05R401	GELC
R-5 S4	858.7	09/30/04	WG	UF	INIT	REG	RAD	Generic:Alpha-Spec	Plutonium-239/240	Pu-239/240	N	0.00944	0.00579	0.038	—	pCi/L	Y	U	U	122723	GU0409G05R401	GELC
R-5 S4	858.7	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	15.1	15.8	67.2	—	pCi/L	Y	U	U	12-1526	CAPU-12-22842	GELC
R-5 S4	858.7	03/09/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	13.7	18	64	—	pCi/L	Y	U	U	11-1598	CAPU-11-5304	GELC
R-5 S4	858.7	07/23/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	0.87	17	61	—	pCi/L	Y	U	U	09-2726	CAPU-09-11255	GELC
R-5 S4	858.7	05/04/05	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	21.4	12.4	52.1	—	pCi/L	Y	U	U	136031	GU0504G05R401	GELC
R-5 S4	858.7	09/30/04	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	33.3	32.1	42.8	—	pCi/L	Y	U	U	122723	GU0409G05R401	GELC
R-5 S4	858.7	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	70.8	—	—	0.053	mg/L	Y	—	NQ	12-1526	CAPU-12-22845	GELC
R-5 S4	858.7	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	63	—	—	0.053	mg/L	Y	—	J+	11-1598	CAPU-11-5306	GELC
R-5 S4	858.7	07/23/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	65.9	—	—	0.053	mg/L	Y	—	NQ	09-2726	CAPU-09-11253	GELC
R-5 S4	858.7	01/12/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	66.4	—	—	0.032	mg/L	Y	—	NQ	09-617	CAPU-09-1807	GELC
R-5 S4	858.7	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	66.5	—	—	0.032	mg/L	Y	—	NQ	08-1777	CAPU-08-14853	GELC
R-5 S4	858.7	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.83	1.33	4.52	—	pCi/L	Y	U	U	12-1526	CAPU-12-22842	GELC
R-5 S4	858.7	03/09/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.17	1.6	5.6	—	pCi/L	Y	U	U	11-1598	CAPU-11-5304	GELC
R-5 S4	858.7	07/23/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.431	1.3	4.6	—	pCi/L	Y	U	U	09-2726	CAPU-09-11255	GELC
R-5 S4	858.7	05/04/05	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.74	1.01	4.61	—	pCi/L	Y	U	U	136031	GU0504G05R401	GELC
R-5 S4	858.7	09/30/04	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.676	1.22	4.47	—	pCi/L	Y	U	U	122723	GU0409G05R401	GELC
R-5 S4	858.7	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	251	—	—	1	µS/cm	Y	—	NQ	12-1526	CAPU-12-22845	GELC
R-5 S4	858.7	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	256	—	—	1	µS/cm	Y	—	NQ	11-1598	CAPU-11-5306	GELC
R-5 S4	858.7	07/23/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	252	—	—	1	µS/cm	Y	—	NQ	09-2726	CAPU-09-11253	GELC
R-5 S4	858.7	01/12/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	256	—	—	1	µS/cm	Y	—	NQ	09-617	CAPU-09-14362	GELC
R-5 S4	858.7	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	253	—	—	1	µS/cm	Y	—	NQ	08-1777	CAPU-08-16499	GELC
R-5 S4	858.7	08/30/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.16	0.0611	0.196	—	pCi/L	Y	U	U	12-1526	CAPU-12-22842	GELC
R-5 S4	858.7	03/09/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0677	0.14	0.52	—	pCi/L	Y	U	U	11-1598	CAPU-11-5304	GELC
R-5 S4	858.7	07/23/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0848	0.14	0.48	—	pCi/L	Y	U	U	09-2726	CAPU-09-11255	GELC

Table C-2 TA-21 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-5 S4	858.7	05/04/05	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0585	0.0572	0.249	—	pCi/L	Y	—	U	136031	GU0504G05R401	GELC
R-5 S4	858.7	09/30/04	WG	UF	INIT	REG	RAD	Generic:GFPC Tc-99	Strontium-90	Sr-90	N	0.173	0.0608	0.211	—	pCi/L	Y	U	U	122723	GU0409G05R401	GELC
R-5 S4	858.7	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.56	—	—	0.133	mg/L	Y	—	NQ	12-1526	CAPU-12-22845	GELC
R-5 S4	858.7	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.07	—	—	0.1	mg/L	Y	—	NQ	11-1598	CAPU-11-5306	GELC
R-5 S4	858.7	07/23/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.79	—	—	0.1	mg/L	Y	—	NQ	09-2726	CAPU-09-11253	GELC
R-5 S4	858.7	01/12/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.26	—	—	0.1	mg/L	Y	—	NQ	09-617	CAPU-09-14362	GELC
R-5 S4	858.7	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.85	—	—	0.1	mg/L	Y	—	NQ	08-1777	CAPU-08-16499	GELC
R-5 S4	858.7	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	199	—	—	3.4	mg/L	Y	—	NQ	12-1526	CAPU-12-22845	GELC
R-5 S4	858.7	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	209	—	—	2.4	mg/L	Y	—	J	11-1598	CAPU-11-5306	GELC
R-5 S4	858.7	07/23/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	193	—	—	2.4	mg/L	Y	—	NQ	09-2726	CAPU-09-11253	GELC
R-5 S4	858.7	01/12/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	193	—	—	2.4	mg/L	Y	—	J	09-617	CAPU-09-14362	GELC
R-5 S4	858.7	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	191	—	—	2.4	mg/L	Y	—	NQ	08-1777	CAPU-08-16499	GELC
R-5 S4	858.7	08/30/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.632	—	—	0.33	mg/L	Y	J	J	12-1526	CAPU-12-22842	GELC
R-5 S4	858.7	03/09/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-1597	CAPU-11-5304	GELC
R-5 S4	858.7	07/23/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.859	—	—	0.33	mg/L	Y	J	J	09-2726	CAPU-09-11255	GELC
R-5 S4	858.7	01/12/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.444	—	—	0.33	mg/L	Y	J	J	09-617	CAPU-09-1805	GELC
R-5 S4	858.7	08/26/08	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	08-1776	CAPU-08-14851	GELC
R-5 S4	858.7	08/30/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	2.872	0.814	2.154	—	pCi/L	Y	—	J-	12-1528	CAPU-12-22842	ARSL
R-5 S4	858.7	03/09/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-2.0286	0.644	2.1252	—	pCi/L	N	U	R	11-1655	CAPU-11-5304	ARSL
R-5 S4	858.7	03/09/11	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.2576	0.6118	2.1252	—	pCi/L	Y	U	U	11-1655	CAPU-11-5304	ARSL
R-5 S4	858.7	07/23/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.0322	0.2898	0.2898	—	pCi/L	Y	U	U	09-2728	CAPU-09-11255	UMTL
R-5 S4	858.7	01/12/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.1288	0.2898	0.2898	—	pCi/L	Y	U	U	09-622	CAPU-09-1805	UMTL
R-5 S4	858.7	08/26/08	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.2898	0.2898	0.2898	—	pCi/L	Y	—	U	08-1779	CAPU-08-14851	UMTL
R-5 S4	858.7	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.27	0.0584	0.0667	—	pCi/L	Y	—	J	12-1526	CAPU-12-22842	GELC
R-5 S4	858.7	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.2	0.1	0.052	—	pCi/L	Y	—	NQ	11-1598	CAPU-11-5304	GELC
R-5 S4	858.7	07/23/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.21	0.13	0.21	—	pCi/L	Y	—	NQ	09-2726	CAPU-09-11255	GELC
R-5 S4	858.7	05/04/05	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.11	0.0769	0.079	—	pCi/L	Y	—	—	136031	GU0504G05R401	GELC
R-5 S4	858.7	09/30/04	WG	UF	INIT	REG	RAD	Generic:Alpha-Spec	Uranium-234	U-234	Y	1.05	0.0693	0.062	—	pCi/L	Y	—	—	122723	GU0409G05R401	GELC
R-5 S4	858.7	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0401	0.0119	0.043	—	pCi/L	Y	U	U	12-1526	CAPU-12-22842	GELC
R-5 S4	858.7	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0486	0.014	0.034	—	pCi/L	Y	—	NQ	11-1598	CAPU-11-5304	GELC
R-5 S4	858.7	07/23/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0114	0.015	0.1	—	pCi/L	Y	U	U	09-2726	CAPU-09-11255	GELC
R-5 S4	858.7	05/04/05	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.102	0.0182	0.048	—	pCi/L	Y	—	J	136031	GU0504G05R401	GELC
R-5 S4	858.7	09/30/04	WG	UF	INIT	REG	RAD	Generic:Alpha-Spec	Uranium-235/236	U-235/236	N	0.0326	0.0091	0.04	—	pCi/L	Y	U	U	122723	GU0409G05R401	GELC
R-5 S4	858.7	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.534	0.0373	0.0338	—	pCi/L	Y	—	J	12-1526	CAPU-12-22842	GELC
R-5 S4	858.7	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.656	0.061	0.036	—	pCi/L	Y	—	NQ	11-1598	CAPU-11-5304	GELC
R-5 S4	858.7	07/23/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.536	0.071	0.1	—	pCi/L	Y	—	NQ	09-2726	CAPU-09-11255	GELC
R-5 S4	858.7	05/04/05	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.478	0.0426	0.056	—	pCi/L	Y	—	—	136031	GU0504G05R401	GELC
R-5 S4	858.7	09/30/04	WG	UF	INIT	REG	RAD	Generic:Alpha-Spec	Uranium-238	U-238	Y	0.561	0.0436	0.044	—	pCi/L	Y	—	—	122723	GU0409G05R401	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.26	—	—	0.01	SU	Y	H	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.14	—	—	0.01	SU	Y	H	J-	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.41	—	—	0.01	SU	Y	H	J-	10-1189	CALA-10-9180	GELC
R-6	1205	01/08/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.38	—	—	0.01	SU	Y	H	J-	10-1189	CALA-10-9183	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.45	—	—	0.01	SU	Y	H	J-	09-2640	CALA-09-11163	GELC
R-6	1205	01/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.19	—	—	0.01	SU	Y	H	J-	09-682	CALA-09-1760	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66.6	—	—	0.725	mg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	69	—	—	0.73	mg/L	Y	—	NQ	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66.9	—	—	0.73	mg/L	Y	—	NQ	10-1189	CALA-10-9180	GELC
R-6	1205	01/08/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66.9	—	—	0.73	mg/L	Y	—	NQ	10-1189	CALA-10-9183	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	69.7	—	—	0.73	mg/L	Y	—	NQ	09-2640	CALA-09-11163	GELC
R-6	1205	01/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.8	—	—	0.73	mg/L	Y	—	NQ	09-682	CALA-09-1760	GELC
R-6	1205	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0134	0.00944	0.0458	—	pCi/L	Y	U	U	12-1518	CALA-12-22819	GELC

Table C-2 TA-21 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-6	1205	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00812	0.0037	0.023	—	pCi/L	Y	U	U	11-1674	CALA-11-5173	GELC
R-6	1205	01/08/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00645	0.0073	0.028	—	pCi/L	Y	U	U	10-1189	CALA-10-9179	GELC
R-6	1205	07/14/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00271	0.011	0.072	—	pCi/L	Y	U	U	09-2641	CALA-09-11164	GELC
R-6	1205	08/27/08	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0114	0.004	0.039	—	pCi/L	Y	U	U	08-1798	CALA-08-13902	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.96	—	—	1.7	µg/L	Y	J	J	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.74	—	—	1.7	µg/L	Y	J	J	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.38	—	—	1.5	µg/L	Y	J	J	10-1189	CALA-10-9180	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.67	—	—	1.5	µg/L	Y	J	J	09-2640	CALA-09-11163	GELC
R-6	1205	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.8	—	—	1.5	µg/L	Y	J	J	08-1797	CALA-08-13901	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	18.5	—	—	1	µg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	18.5	—	—	1	µg/L	Y	—	NQ	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	20.9	—	—	1	µg/L	Y	—	NQ	10-1189	CALA-10-9180	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	20	—	—	1	µg/L	Y	—	NQ	09-2640	CALA-09-11163	GELC
R-6	1205	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	20	—	—	1	µg/L	Y	—	NQ	08-1797	CALA-08-13901	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	23.5	—	—	15	µg/L	Y	J	J	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	23.5	—	—	15	µg/L	Y	J	J	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	21	—	—	15	µg/L	Y	J	J	10-1189	CALA-10-9180	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	17.4	—	—	15	µg/L	Y	J	J	09-2640	CALA-09-11163	GELC
R-6	1205	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	15.9	—	—	10	µg/L	Y	J	J	08-1797	CALA-08-13901	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	14.6	—	—	0.05	mg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	14.4	—	—	0.05	mg/L	Y	—	NQ	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	15.6	—	—	0.05	mg/L	Y	—	NQ	10-1189	CALA-10-9180	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	14.4	—	—	0.05	mg/L	Y	—	NQ	09-2640	CALA-09-11163	GELC
R-6	1205	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	14.1	—	—	0.03	mg/L	Y	—	NQ	08-1797	CALA-08-13901	GELC
R-6	1205	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.16	1.67	5.84	—	pCi/L	Y	U	U	12-1518	CALA-12-22819	GELC
R-6	1205	03/17/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.0509	1.9	6.2	—	pCi/L	Y	U	U	11-1674	CALA-11-5173	GELC
R-6	1205	01/08/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.81	1.4	4.3	—	pCi/L	Y	U	U	10-1189	CALA-10-9179	GELC
R-6	1205	07/14/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.248	1.2	3.9	—	pCi/L	Y	U	U	09-2641	CALA-09-11164	GELC
R-6	1205	08/27/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.261	1.2	3.8	—	pCi/L	Y	U	U	08-1798	CALA-08-13902	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.84	—	—	0.067	mg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.92	—	—	0.066	mg/L	Y	—	J+	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.96	—	—	0.066	mg/L	Y	—	NQ	10-1189	CALA-10-9180	GELC
R-6	1205	01/08/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.95	—	—	0.066	mg/L	Y	—	NQ	10-1189	CALA-10-9183	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.09	—	—	0.066	mg/L	Y	—	NQ	09-2640	CALA-09-11163	GELC
R-6	1205	01/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.06	—	—	0.066	mg/L	Y	—	J+	09-682	CALA-09-1760	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	8.4	—	—	2	µg/L	Y	J	J	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.92	—	—	2	µg/L	Y	J	J	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.96	—	—	2.5	µg/L	Y	J	J	10-1189	CALA-10-9180	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.75	—	—	2.5	µg/L	Y	J	J	09-2640	CALA-09-11163	GELC
R-6	1205	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	8.5	—	—	1.5	µg/L	Y	—	U	08-1797	CALA-08-13901	GELC
R-6	1205	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.884	1.48	6.01	—	pCi/L	Y	U	U	12-1518	CALA-12-22819	GELC
R-6	1205	03/17/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.13	1.9	6.9	—	pCi/L	Y	U	U	11-1674	CALA-11-5173	GELC
R-6	1205	01/08/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.9	1.4	5	—	pCi/L	Y	U	U	10-1189	CALA-10-9179	GELC
R-6	1205	07/14/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.6	1.1	4.2	—	pCi/L	Y	U	U	09-2641	CALA-09-11164	GELC
R-6	1205	08/27/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.29	1.3	3.5	—	pCi/L	Y	U	U	08-1798	CALA-08-13902	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.38	—	—	0.033	mg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.356	—	—	0.033	mg/L	Y	—	NQ	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.646	—	—	0.033	mg/L	Y	—	NQ	10-1189	CALA-10-9180	GELC
R-6	1205	01/08/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.626	—	—	0.033	mg/L	Y	—	NQ	10-1189	CALA-10-9183	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.428	—	—	0.033	mg/L	Y	—	NQ	09-2640	CALA-09-11163	GELC
R-6	1205	01/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.451	—	—	0.033	mg/L	Y	—	NQ	09-682	CALA-09-1760	GELC

Table C-2 TA-21 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-6	1205	08/27/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.697	0.584	2.09	—	pCi/L	Y	U	U	12-1518	CALA-12-22819	GELC
R-6	1205	03/17/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.444	0.55	2.2	—	pCi/L	Y	U	U	11-1674	CALA-11-5173	GELC
R-6	1205	07/14/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.192	0.37	1.5	—	pCi/L	Y	U	U	09-2641	CALA-09-11164	GELC
R-6	1205	07/17/07	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	2.15	0.693	1.56	—	pCi/L	Y	—	J	189841	GU070700G06R01	GELC
R-6	1205	04/12/07	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.641	0.527	1.7	—	pCi/L	Y	U	U	184266	GU070400G06R01	GELC
R-6	1205	08/27/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.88	0.613	2.06	—	pCi/L	Y	U	U	12-1518	CALA-12-22819	GELC
R-6	1205	03/17/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.272	0.66	2.6	—	pCi/L	Y	U	U	11-1674	CALA-11-5173	GELC
R-6	1205	07/14/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.196	0.75	2.6	—	pCi/L	Y	U	U	09-2641	CALA-09-11164	GELC
R-6	1205	07/17/07	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.34	0.906	2.79	—	pCi/L	Y	U	U	189841	GU070700G06R01	GELC
R-6	1205	04/12/07	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.63	0.76	2.44	—	pCi/L	Y	U	U	184266	GU070400G06R01	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	53.7	—	—	0.453	mg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	52	—	—	0.45	mg/L	Y	—	NQ	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	56.8	—	—	0.35	mg/L	Y	—	NQ	10-1189	CALA-10-9180	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	52.1	—	—	0.35	mg/L	Y	—	NQ	09-2640	CALA-09-11163	GELC
R-6	1205	08/27/08	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	51.8	—	—	0.35	mg/L	Y	—	NQ	08-1797	CALA-08-13901	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.16	—	—	0.11	mg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.89	—	—	0.11	mg/L	Y	—	NQ	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.34	—	—	0.085	mg/L	Y	—	NQ	10-1189	CALA-10-9180	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.91	—	—	0.085	mg/L	Y	—	NQ	09-2640	CALA-09-11163	GELC
R-6	1205	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.99	—	—	0.085	mg/L	Y	—	NQ	08-1797	CALA-08-13901	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.81	—	—	0.165	µg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.5	—	—	0.17	µg/L	Y	—	NQ	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.69	—	—	0.1	µg/L	Y	—	NQ	10-1189	CALA-10-9180	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.64	—	—	0.1	µg/L	Y	—	NQ	09-2640	CALA-09-11163	GELC
R-6	1205	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.5	—	—	0.1	µg/L	Y	—	U	08-1797	CALA-08-13901	GELC
R-6	1205	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	6.31	3.43	12.7	—	pCi/L	Y	U	U	12-1518	CALA-12-22819	GELC
R-6	1205	03/17/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.81	3.8	13	—	pCi/L	Y	U	U	11-1674	CALA-11-5173	GELC
R-6	1205	01/08/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-26.3	14	43	—	pCi/L	Y	U	U	10-1189	CALA-10-9179	GELC
R-6	1205	07/14/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	8.43	8.8	29	—	pCi/L	Y	U	U	09-2641	CALA-09-11164	GELC
R-6	1205	08/27/08	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	8	9.9	31	—	pCi/L	Y	U	U	08-1798	CALA-08-13902	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.628	—	—	0.5	µg/L	Y	J	J	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.509	—	—	0.5	µg/L	Y	J	J	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	µg/L	Y	U	U	10-1189	CALA-10-9180	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.551	—	—	0.5	µg/L	Y	J	J	09-2640	CALA-09-11163	GELC
R-6	1205	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	µg/L	Y	U	U	08-1797	CALA-08-13901	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.29	—	—	0.017	mg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.297	—	—	0.05	mg/L	Y	—	NQ	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.313	—	—	0.05	mg/L	Y	—	NQ	10-1189	CALA-10-9180	GELC
R-6	1205	01/08/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.321	—	—	0.05	mg/L	Y	—	NQ	10-1189	CALA-10-9183	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.132	—	—	0.01	mg/L	Y	—	U	09-2640	CALA-09-11163	GELC
R-6	1205	01/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.35	—	—	0.05	mg/L	Y	—	J+	09-682	CALA-09-1760	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.313	—	—	0.05	µg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.312	—	—	0.05	µg/L	Y	—	NQ	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.304	—	—	0.05	µg/L	Y	—	NQ	10-1189	CALA-10-9180	GELC
R-6	1205	01/08/10	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.313	—	—	0.05	µg/L	Y	—	NQ	10-1189	CALA-10-9183	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.355	—	—	0.05	µg/L	Y	—	NQ	09-2640	CALA-09-11163	GELC
R-6	1205	01/20/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.322	—	—	0.05	µg/L	Y	—	NQ	09-682	CALA-09-1760	GELC
R-6	1205	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00247	0.00429	0.025	—	pCi/L	Y	U	U	12-1518	CALA-12-22819	GELC
R-6	1205	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00326	0.0028	0.02	—	pCi/L	Y	U	U	11-1674	CALA-11-5173	GELC
R-6	1205	01/08/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0019	0.025	—	pCi/L	Y	U	U	10-1189	CALA-10-9179	GELC
R-6	1205	07/14/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.003	0.048	—	pCi/L	Y	U	U	09-2641	CALA-09-11164	GELC

Table C-2 TA-21 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-6	1205	08/27/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0152	0.0089	0.03	—	pCi/L	Y	U	U	08-1798	CALA-08-13902	GELC
R-6	1205	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00495	0.00495	0.0293	—	pCi/L	Y	U	U	12-1518	CALA-12-22819	GELC
R-6	1205	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00326	0.004	0.03	—	pCi/L	Y	U	U	11-1674	CALA-11-5173	GELC
R-6	1205	01/08/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0019	0.026	—	pCi/L	Y	U	U	10-1189	CALA-10-9179	GELC
R-6	1205	07/14/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.003	0.003	0.059	—	pCi/L	Y	U	U	09-2641	CALA-09-11164	GELC
R-6	1205	08/27/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0065	0.0038	0.037	—	pCi/L	Y	U	U	08-1798	CALA-08-13902	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.28	—	—	0.05	mg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.3	—	—	0.05	mg/L	Y	—	NQ	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.34	—	—	0.05	mg/L	Y	—	NQ	10-1189	CALA-10-9180	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.24	—	—	0.05	mg/L	Y	—	NQ	09-2640	CALA-09-11163	GELC
R-6	1205	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.26	—	—	0.05	mg/L	Y	—	NQ	08-1797	CALA-08-13901	GELC
R-6	1205	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	8.53	21.2	80.8	—	pCi/L	Y	U	U	12-1518	CALA-12-22819	GELC
R-6	1205	03/17/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-30.2	19	45	—	pCi/L	Y	U	U	11-1674	CALA-11-5173	GELC
R-6	1205	01/08/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-4.4	17	53	—	pCi/L	Y	U	U	10-1189	CALA-10-9179	GELC
R-6	1205	07/14/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	14	13	48	—	pCi/L	Y	U	U	09-2641	CALA-09-11164	GELC
R-6	1205	08/27/08	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-2.11	13	47	—	pCi/L	Y	U	U	08-1798	CALA-08-13902	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	81.9	—	—	0.053	mg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	74.7	—	—	0.053	mg/L	Y	—	NQ	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	81.1	—	—	0.053	mg/L	Y	—	NQ	10-1189	CALA-10-9180	GELC
R-6	1205	01/08/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	75.8	—	—	0.053	mg/L	Y	—	NQ	10-1189	CALA-10-9183	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	76.3	—	—	0.053	mg/L	Y	—	NQ	09-2640	CALA-09-11163	GELC
R-6	1205	01/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	73.2	—	—	0.032	mg/L	Y	—	NQ	09-682	CALA-09-1760	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.7	—	—	0.1	mg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10	—	—	0.1	mg/L	Y	—	NQ	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.1	—	—	0.1	mg/L	Y	—	NQ	10-1189	CALA-10-9180	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.7	—	—	0.1	mg/L	Y	—	NQ	09-2640	CALA-09-11163	GELC
R-6	1205	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.4	—	—	0.045	mg/L	Y	—	NQ	08-1797	CALA-08-13901	GELC
R-6	1205	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.89	1.83	6.08	—	pCi/L	Y	U	U	12-1518	CALA-12-22819	GELC
R-6	1205	03/17/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.11	1.5	5.6	—	pCi/L	Y	U	U	11-1674	CALA-11-5173	GELC
R-6	1205	01/08/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.419	1.5	4.9	—	pCi/L	Y	U	U	10-1189	CALA-10-9179	GELC
R-6	1205	07/14/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.385	1.2	3.9	—	pCi/L	Y	U	U	09-2641	CALA-09-11164	GELC
R-6	1205	08/27/08	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.84	1.5	3.8	—	pCi/L	Y	U	U	08-1798	CALA-08-13902	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	142	—	—	1	µS/cm	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	146	—	—	1	µS/cm	Y	—	NQ	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	141	—	—	1	µS/cm	Y	—	NQ	10-1189	CALA-10-9180	GELC
R-6	1205	01/08/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	142	—	—	1	µS/cm	Y	—	NQ	10-1189	CALA-10-9183	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	144	—	—	1	µS/cm	Y	—	NQ	09-2640	CALA-09-11163	GELC
R-6	1205	01/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	143	—	—	1	µS/cm	Y	—	NQ	09-682	CALA-09-1760	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	58.5	—	—	1	µg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	57.2	—	—	1	µg/L	Y	—	NQ	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	62.7	—	—	1	µg/L	Y	—	NQ	10-1189	CALA-10-9180	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	64.9	—	—	1	µg/L	Y	—	NQ	09-2640	CALA-09-11163	GELC
R-6	1205	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	55.5	—	—	1	µg/L	Y	—	NQ	08-1797	CALA-08-13901	GELC
R-6	1205	08/27/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0471	0.0578	0.195	—	pCi/L	Y	U	U	12-1518	CALA-12-22819	GELC
R-6	1205	03/17/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0324	0.13	0.48	—	pCi/L	Y	U	U	11-1674	CALA-11-5173	GELC
R-6	1205	01/08/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.339	0.15	0.49	—	pCi/L	Y	U	U	10-1189	CALA-10-9179	GELC
R-6	1205	07/14/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.111	0.15	0.5	—	pCi/L	Y	U	U	09-2641	CALA-09-11164	GELC
R-6	1205	08/27/08	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0445	0.09	0.38	—	pCi/L	Y	U	U	08-1798	CALA-08-13902	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.3	—	—	0.133	mg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.46	—	—	0.1	mg/L	Y	—	NQ	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.42	—	—	0.1	mg/L	Y	—	NQ	10-1189	CALA-10-9180	GELC

Table C-2 TA-21 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-6	1205	01/08/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.45	—	—	0.1	mg/L	Y	—	NQ	10-1189	CALA-10-9183	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.43	—	—	0.1	mg/L	Y	—	NQ	09-2640	CALA-09-11163	GELC
R-6	1205	01/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.51	—	—	0.1	mg/L	Y	—	NQ	09-682	CALA-09-1760	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	143	—	—	3.4	mg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	146	—	—	2.4	mg/L	Y	—	NQ	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	155	—	—	2.4	mg/L	Y	—	NQ	10-1189	CALA-10-9180	GELC
R-6	1205	01/08/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	153	—	—	2.4	mg/L	Y	—	NQ	10-1189	CALA-10-9183	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	157	—	—	2.4	mg/L	Y	—	J	09-2640	CALA-09-11163	GELC
R-6	1205	01/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	143	—	—	2.4	mg/L	Y	—	NQ	09-682	CALA-09-1760	GELC
R-6	1205	08/27/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.411	—	—	0.33	mg/L	Y	J	J	12-1518	CALA-12-22819	GELC
R-6	1205	03/17/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.737	—	—	0.33	mg/L	Y	J	J	11-1673	CALA-11-5173	GELC
R-6	1205	01/08/10	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.599	—	—	0.33	mg/L	Y	J	J	10-1187	CALA-10-9182	GELC
R-6	1205	01/08/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.453	—	—	0.33	mg/L	Y	J	J	10-1187	CALA-10-9179	GELC
R-6	1205	07/14/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	09-2639	CALA-09-11164	GELC
R-6	1205	01/20/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.674	—	—	0.33	mg/L	Y	J	J	09-681	CALA-09-1759	GELC
R-6	1205	08/27/12	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	-42.4	33.8	128	—	pCi/L	Y	U	U	12-1518	CALA-12-22819	GELC
R-6	1205	03/17/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.9642	0.6118	2.0286	—	pCi/L	N	U	R	11-1710	CALA-11-5173	ARSL
R-6	1205	03/17/11	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.483	0.5796	2.0286	—	pCi/L	Y	U	U	11-1710	CALA-11-5173	ARSL
R-6	1205	01/08/10	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.0322	0.2898	0.2898	—	pCi/L	Y	U	U	10-1190	CALA-10-9182	UMTL
R-6	1205	01/08/10	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.0644	0.2898	0.2898	—	pCi/L	Y	U	U	10-1190	CALA-10-9179	UMTL
R-6	1205	07/14/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.0644	0.2898	0.2898	—	pCi/L	Y	U	U	09-2642	CALA-09-11164	UMTL
R-6	1205	01/20/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.0322	0.2898	0.2898	—	pCi/L	Y	U	U	09-678	CALA-09-1759	UMTL
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.266	—	—	0.067	µg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.387	—	—	0.067	µg/L	Y	—	U	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.371	—	—	0.05	µg/L	Y	—	NQ	10-1189	CALA-10-9180	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.439	—	—	0.05	µg/L	Y	—	NQ	09-2640	CALA-09-11163	GELC
R-6	1205	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.41	—	—	0.05	µg/L	Y	—	U	08-1797	CALA-08-13901	GELC
R-6	1205	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.273	0.0287	0.0704	—	pCi/L	Y	—	J	12-1518	CALA-12-22819	GELC
R-6	1205	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.331	0.035	0.042	—	pCi/L	Y	—	NQ	11-1674	CALA-11-5173	GELC
R-6	1205	01/08/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.336	0.038	0.071	—	pCi/L	Y	—	NQ	10-1189	CALA-10-9179	GELC
R-6	1205	07/14/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.357	0.063	0.26	—	pCi/L	Y	—	NQ	09-2641	CALA-09-11164	GELC
R-6	1205	08/27/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.32	0.032	0.068	—	pCi/L	Y	—	NQ	08-1798	CALA-08-13902	GELC
R-6	1205	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.013	0.00798	0.0454	—	pCi/L	Y	U	U	12-1518	CALA-12-22819	GELC
R-6	1205	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0172	0.0074	0.027	—	pCi/L	Y	U	U	11-1674	CALA-11-5173	GELC
R-6	1205	01/08/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00937	0.007	0.04	—	pCi/L	Y	U	U	10-1189	CALA-10-9179	GELC
R-6	1205	07/14/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00945	0.015	0.13	—	pCi/L	Y	U	U	09-2641	CALA-09-11164	GELC
R-6	1205	08/27/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0147	0.0078	0.036	—	pCi/L	Y	U	U	08-1798	CALA-08-13902	GELC
R-6	1205	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.124	0.0195	0.0357	—	pCi/L	Y	—	J	12-1518	CALA-12-22819	GELC
R-6	1205	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.115	0.018	0.029	—	pCi/L	Y	—	NQ	11-1674	CALA-11-5173	GELC
R-6	1205	01/08/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.096	0.017	0.046	—	pCi/L	Y	—	NQ	10-1189	CALA-10-9179	GELC
R-6	1205	07/14/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.143	0.037	0.13	—	pCi/L	Y	—	NQ	09-2641	CALA-09-11164	GELC
R-6	1205	08/27/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.168	0.021	0.036	—	pCi/L	Y	—	NQ	08-1798	CALA-08-13902	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	9.07	—	—	1	µg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.49	—	—	1	µg/L	Y	—	NQ	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	9.14	—	—	1	µg/L	Y	—	NQ	10-1189	CALA-10-9180	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	9.59	—	—	1	µg/L	Y	—	NQ	09-2640	CALA-09-11163	GELC
R-6	1205	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	10.8	—	—	1	µg/L	Y	—	U	08-1797	CALA-08-13901	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.67	—	—	3.3	µg/L	Y	J	J	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	11-1673	CALA-11-5174	GELC
R-6	1205	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.4	—	—	3.3	µg/L	Y	J	J	10-1189	CALA-10-9180	GELC
R-6	1205	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	09-2640	CALA-09-11163	GELC

Table C-2 TA-21 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-6	1205	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	11.7	—	—	2	µg/L	Y	—	U	08-1797	CALA-08-13901	GELC
R-66	819.4	08/31/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.96	—	—	0.01	SU	Y	H	NQ	12-1527	CALA-12-22830	GELC
R-66	819.4	08/31/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.97	—	—	0.01	SU	Y	H	NQ	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.82	—	—	0.01	SU	Y	H	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.92	—	—	0.01	SU	Y	H	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.92	—	—	0.01	SU	Y	H	J-	12-594	CALA-12-2111	GELC
R-66	819.4	08/31/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	87.5	—	—	0.725	mg/L	Y	—	NQ	12-1527	CALA-12-22830	GELC
R-66	819.4	08/31/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	87.5	—	—	0.725	mg/L	Y	—	NQ	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	86.5	—	—	0.725	mg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	85.7	—	—	0.725	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	95.2	—	—	0.73	mg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	08/31/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00409	0.00915	0.0565	—	pCi/L	Y	U	U	12-1527	CALA-12-22821	GELC
R-66	819.4	08/31/12	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0211	0.00906	0.0323	—	pCi/L	Y	U	U	12-1527	CALA-12-22802	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00843	0.00422	0.036	—	pCi/L	Y	U	U	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00777	0.00549	0.035	—	pCi/L	Y	U	U	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.0064	0.036	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	08/31/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	29.5	—	—	1	µg/L	Y	—	NQ	12-1527	CALA-12-22830	GELC
R-66	819.4	08/31/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	28.4	—	—	1	µg/L	Y	—	NQ	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	30.7	—	—	1	µg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	28.3	—	—	1	µg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	37.2	—	—	1	µg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	08/31/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	38.2	—	—	15	µg/L	Y	J	J	12-1527	CALA-12-22830	GELC
R-66	819.4	08/31/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	36.3	—	—	15	µg/L	Y	J	J	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	36.9	—	—	15	µg/L	Y	J	J	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	37.1	—	—	15	µg/L	Y	J	J	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	41.8	—	—	15	µg/L	Y	J	J	12-594	CALA-12-2111	GELC
R-66	819.4	08/31/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.3	—	—	0.05	mg/L	Y	—	NQ	12-1527	CALA-12-22830	GELC
R-66	819.4	08/31/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.7	—	—	0.05	mg/L	Y	—	NQ	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.1	—	—	0.05	mg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.7	—	—	0.05	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	20.3	—	—	0.05	mg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	08/31/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.94	1.86	5.56	—	pCi/L	Y	U	U	12-1527	CALA-12-22821	GELC
R-66	819.4	08/31/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.98	1.42	5.62	—	pCi/L	Y	U	U	12-1527	CALA-12-22802	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.787	1.48	5.04	—	pCi/L	Y	U	U	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.58	1.86	6.4	—	pCi/L	Y	U	U	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.469	1.4	5	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	08/31/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.31	—	—	0.067	mg/L	Y	—	NQ	12-1527	CALA-12-22830	GELC
R-66	819.4	08/31/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.32	—	—	0.067	mg/L	Y	—	NQ	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.48	—	—	0.067	mg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.4	—	—	0.067	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	4.3	—	—	0.066	mg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	08/31/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.9	—	—	2	µg/L	Y	J	J	12-1527	CALA-12-22830	GELC
R-66	819.4	08/31/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.56	—	—	2	µg/L	Y	J	J	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.22	—	—	2	µg/L	Y	J	J	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.02	—	—	2	µg/L	Y	J	J	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	12-594	CALA-12-2111	GELC
R-66	819.4	08/31/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.69	1.91	6.51	—	pCi/L	Y	U	U	12-1527	CALA-12-22821	GELC
R-66	819.4	08/31/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.53	1.33	5.67	—	pCi/L	Y	U	U	12-1527	CALA-12-22802	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	4.85	1.5	6.69	—	pCi/L	Y	U	U	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.475	1.6	6.24	—	pCi/L	Y	U	U	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.2	1.2	5.7	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC

Table C-2 TA-21 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-66	819.4	08/31/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.293	—	—	0.033	mg/L	Y	—	NQ	12-1527	CALA-12-22830	GELC
R-66	819.4	08/31/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.303	—	—	0.033	mg/L	Y	—	NQ	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.337	—	—	0.033	mg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.316	—	—	0.033	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.343	—	—	0.033	mg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	08/31/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.137	0.396	2.23	—	pCi/L	Y	U	U	12-1527	CALA-12-22821	GELC
R-66	819.4	08/31/12	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	2.25	0.905	2.38	—	pCi/L	Y	U	U	12-1527	CALA-12-22802	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.58	1.03	2.82	—	pCi/L	Y	U	U	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.83	0.788	1.93	—	pCi/L	Y	U	U	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.05	0.67	2.1	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	08/31/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.41	0.933	2.9	—	pCi/L	Y	U	U	12-1527	CALA-12-22821	GELC
R-66	819.4	08/31/12	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	1.86	0.894	2.88	—	pCi/L	Y	U	U	12-1527	CALA-12-22802	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.27	0.842	2.54	—	pCi/L	Y	—	NQ	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.74	0.873	2.52	—	pCi/L	Y	—	NQ	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.12	0.83	2.6	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	08/31/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	67.5	—	—	0.453	mg/L	Y	—	NQ	12-1527	CALA-12-22830	GELC
R-66	819.4	08/31/12	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	65.6	—	—	0.453	mg/L	Y	—	NQ	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.9	—	—	0.453	mg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	65.7	—	—	0.453	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	75.5	—	—	0.45	mg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	08/31/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.31	—	—	0.11	mg/L	Y	—	NQ	12-1527	CALA-12-22830	GELC
R-66	819.4	08/31/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.16	—	—	0.11	mg/L	Y	—	NQ	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.29	—	—	0.11	mg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.19	—	—	0.11	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.02	—	—	0.11	mg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	08/31/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.32	—	—	0.165	µg/L	Y	—	NQ	12-1527	CALA-12-22830	GELC
R-66	819.4	08/31/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.36	—	—	0.165	µg/L	Y	—	NQ	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.47	—	—	0.165	µg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.36	—	—	0.165	µg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.32	—	—	0.17	µg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	08/31/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.97	2.73	9.57	—	pCi/L	Y	U	U	12-1527	CALA-12-22821	GELC
R-66	819.4	08/31/12	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.07	3.54	12	—	pCi/L	Y	U	U	12-1527	CALA-12-22802	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.22	2.88	10.7	—	pCi/L	Y	U	U	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.14	3.51	12.8	—	pCi/L	Y	U	U	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.99	3.1	11	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	08/31/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.653	—	—	0.017	mg/L	Y	—	NQ	12-1527	CALA-12-22830	GELC
R-66	819.4	08/31/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.652	—	—	0.017	mg/L	Y	—	NQ	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.625	—	—	0.085	mg/L	N	—	R	12-1383	CALA-12-17153	GELC
R-66	819.4	06/22/12	WG	F	RE	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.715	—	—	0.085	mg/L	Y	H	NQ	12-1383-1	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.605	—	—	0.085	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.7	—	—	0.05	mg/L	Y	—	J+	12-594	CALA-12-2111	GELC
R-66	819.4	08/31/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.519	—	—	0.05	µg/L	Y	—	NQ	12-1527	CALA-12-22830	GELC
R-66	819.4	08/31/12	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.519	—	—	0.05	µg/L	Y	—	NQ	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.509	—	—	0.05	µg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.474	—	—	0.05	µg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.462	—	—	0.05	µg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	08/31/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00543	0.0274	—	pCi/L	Y	U	U	12-1527	CALA-12-22821	GELC
R-66	819.4	08/31/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00484	0.00484	0.0244	—	pCi/L	Y	U	U	12-1527	CALA-12-22802	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00249	0.00352	0.0387	—	pCi/L	Y	U	U	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0178	0.00626	0.0361	—	pCi/L	Y	U	U	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00532	0.0065	0.044	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC

Table C-2 TA-21 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-66	819.4	08/31/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00665	0.0321	—	pCi/L	Y	U	U	12-1527	CALA-12-22821	GELC
R-66	819.4	08/31/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00484	0.0286	—	pCi/L	Y	U	U	12-1527	CALA-12-22802	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00352	0.0384	—	pCi/L	Y	U	U	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00198	0.00524	0.0279	—	pCi/L	Y	U	U	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00266	0.0059	0.034	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	08/31/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.21	—	—	0.05	mg/L	Y	—	NQ	12-1527	CALA-12-22830	GELC
R-66	819.4	08/31/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	2.31	—	—	0.05	mg/L	Y	—	NQ	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.33	—	—	0.05	mg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.33	—	—	0.05	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.75	—	—	0.05	mg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	08/31/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-18.8	21.1	80.8	—	pCi/L	Y	U	U	12-1527	CALA-12-22821	GELC
R-66	819.4	08/31/12	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	20.4	18.3	69.6	—	pCi/L	Y	U	U	12-1527	CALA-12-22802	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	3.14	17.5	68.4	—	pCi/L	Y	U	U	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-8.69	21.9	86.6	—	pCi/L	Y	U	U	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	13.9	20	80	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	08/31/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	80.5	—	—	0.053	mg/L	Y	—	NQ	12-1527	CALA-12-22830	GELC
R-66	819.4	08/31/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	78.5	—	—	0.053	mg/L	Y	—	NQ	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	80.6	—	—	0.053	mg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	78.5	—	—	0.053	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	80.7	—	—	0.053	mg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	08/31/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.2	—	—	0.1	mg/L	Y	—	NQ	12-1527	CALA-12-22830	GELC
R-66	819.4	08/31/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.9	—	—	0.1	mg/L	Y	—	NQ	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.6	—	—	0.1	mg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.4	—	—	0.1	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	14.3	—	—	0.1	mg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	08/31/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.514	2.26	8.18	—	pCi/L	Y	U	U	12-1527	CALA-12-22821	GELC
R-66	819.4	08/31/12	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.26	1.68	6.23	—	pCi/L	Y	U	U	12-1527	CALA-12-22802	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.134	1.34	5.06	—	pCi/L	Y	U	U	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.425	1.32	5.31	—	pCi/L	Y	U	U	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.989	1.7	6.3	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	08/31/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	192	—	—	1	µS/cm	Y	—	NQ	12-1527	CALA-12-22830	GELC
R-66	819.4	08/31/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	193	—	—	1	µS/cm	Y	—	NQ	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	187	—	—	1	µS/cm	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	188	—	—	1	µS/cm	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	201	—	—	1	µS/cm	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	08/31/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	78.2	—	—	1	µg/L	Y	—	NQ	12-1527	CALA-12-22830	GELC
R-66	819.4	08/31/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	76.2	—	—	1	µg/L	Y	—	NQ	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	78.7	—	—	1	µg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	76.6	—	—	1	µg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	88.7	—	—	1	µg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	08/31/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0452	0.0932	0.315	—	pCi/L	Y	U	U	12-1527	CALA-12-22821	GELC
R-66	819.4	08/31/12	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0172	0.0443	0.152	—	pCi/L	Y	U	U	12-1527	CALA-12-22802	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.163	0.124	0.413	—	pCi/L	Y	U	U	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0113	0.121	0.443	—	pCi/L	Y	U	U	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.153	0.11	0.49	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	08/31/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.22	—	—	0.133	mg/L	Y	—	NQ	12-1527	CALA-12-22830	GELC
R-66	819.4	08/31/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.32	—	—	0.133	mg/L	Y	—	NQ	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.46	—	—	0.133	mg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.5	—	—	0.133	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.89	—	—	0.1	mg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	08/31/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	173	—	—	3.4	mg/L	Y	—	NQ	12-1527	CALA-12-22830	GELC

Table C-2 TA-21 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-66	819.4	08/31/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	160	—	—	3.4	mg/L	Y	—	NQ	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	169	—	—	3.4	mg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	189	—	—	3.4	mg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	193	—	—	3.4	mg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	08/31/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.367	—	—	0.33	mg/L	Y	J	J	12-1527	CALA-12-22821	GELC
R-66	819.4	08/31/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.396	—	—	0.33	mg/L	Y	J	J	12-1527	CALA-12-22802	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.528	—	—	0.33	mg/L	Y	J	J	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	UJ	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.35	—	—	0.33	mg/L	Y	J	J	12-594	CALA-12-2110	GELC
R-66	819.4	08/31/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.231	0.706	2.232	—	pCi/L	Y	U	UJ	12-1531	CALA-12-22821	ARSL
R-66	819.4	08/31/12	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.58	0.701	2.137	—	pCi/L	Y	U	UJ	12-1531	CALA-12-22802	ARSL
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.41	0.82	2.75	—	pCi/L	Y	U	U	12-1388	CALA-12-17151	ARSL
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.019	0.639	2.039	—	pCi/L	Y	U	U	12-1162	CALA-12-12309	ARSL
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.39	0.65	2.23	—	pCi/L	Y	U	U	12-603	CALA-12-2110	ARSL
R-66	819.4	08/31/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.649	—	—	0.067	µg/L	Y	—	NQ	12-1527	CALA-12-22830	GELC
R-66	819.4	08/31/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.678	—	—	0.067	µg/L	Y	—	NQ	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.724	—	—	0.067	µg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.743	—	—	0.067	µg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.822	—	—	0.067	µg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	08/31/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.462	0.0321	0.0546	—	pCi/L	Y	—	NQ	12-1527	CALA-12-22821	GELC
R-66	819.4	08/31/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.538	0.0332	0.051	—	pCi/L	Y	—	NQ	12-1527	CALA-12-22802	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.43	0.033	0.0618	—	pCi/L	Y	—	NQ	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.44	0.0325	0.0545	—	pCi/L	Y	—	NQ	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.654	0.059	0.041	—	pCi/L	Y	—	NQ	12-594	CALA-12-2110	GELC
R-66	819.4	08/31/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0225	0.00827	0.0231	—	pCi/L	Y	U	U	12-1527	CALA-12-22821	GELC
R-66	819.4	08/31/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00698	0.00698	0.0216	—	pCi/L	Y	U	U	12-1527	CALA-12-22802	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00278	0.00833	0.0345	—	pCi/L	Y	U	U	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00554	0.00554	0.0315	—	pCi/L	Y	U	U	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0132	0.0067	0.036	—	pCi/L	Y	U	U	12-594	CALA-12-2110	GELC
R-66	819.4	08/31/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.222	0.0223	0.0272	—	pCi/L	Y	—	NQ	12-1527	CALA-12-22821	GELC
R-66	819.4	08/31/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.234	0.0216	0.0254	—	pCi/L	Y	—	NQ	12-1527	CALA-12-22802	GELC
R-66	819.4	06/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.182	0.0202	0.032	—	pCi/L	Y	—	NQ	12-1383	CALA-12-17151	GELC
R-66	819.4	03/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.199	0.0211	0.035	—	pCi/L	Y	—	NQ	12-1164	CALA-12-12309	GELC
R-66	819.4	01/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.27	0.032	0.034	—	pCi/L	Y	—	NQ	12-594	CALA-12-2110	GELC
R-66	819.4	08/31/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.8	—	—	1	µg/L	Y	—	NQ	12-1527	CALA-12-22830	GELC
R-66	819.4	08/31/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	11.6	—	—	1	µg/L	Y	—	NQ	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	11.9	—	—	1	µg/L	Y	—	NQ	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.1	—	—	1	µg/L	Y	—	NQ	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.1	—	—	1	µg/L	Y	—	NQ	12-594	CALA-12-2111	GELC
R-66	819.4	08/31/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.24	—	—	3.3	µg/L	Y	J	J	12-1527	CALA-12-22830	GELC
R-66	819.4	08/31/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	N	3.3	—	—	3.3	µg/L	Y	U	U	12-1527	CALA-12-22804	GELC
R-66	819.4	06/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-1383	CALA-12-17153	GELC
R-66	819.4	03/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-1164	CALA-12-12311	GELC
R-66	819.4	01/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	9.08	—	—	3.3	µg/L	Y	J	J	12-594	CALA-12-2111	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.8	—	—	0.01	SU	Y	H	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.62	—	—	0.01	SU	Y	H	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.59	—	—	0.01	SU	Y	H	J-	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.68	—	—	0.01	SU	Y	H	J-	10-4259	CALA-10-25227	GELC
R-6i	602	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.67	—	—	0.01	SU	Y	H	J-	10-1189	CALA-10-9178	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.55	—	—	0.01	SU	Y	H	J-	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.2	—	—	0.725	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC

Table C-2 TA-21 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-6i	602	08/27/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66.1	—	—	0.725	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	65.8	—	—	0.73	mg/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.7	—	—	0.73	mg/L	Y	—	NQ	10-4259	CALA-10-25227	GELC
R-6i	602	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66.4	—	—	0.73	mg/L	Y	—	NQ	10-1189	CALA-10-9178	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.2	—	—	0.73	mg/L	Y	—	NQ	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	Y	338	—	—	68	µg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Aluminum	Al	N	68	—	—	68	µg/L	Y	U	U	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	µg/L	Y	U	U	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	µg/L	Y	U	U	10-4259	CALA-10-25227	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	µg/L	Y	U	U	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	µg/L	Y	U	U	08-1797	CALA-08-13890	GELC
R-6i	602	08/27/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	µg/L	Y	U	U	08-1797	CALA-08-13893	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0128	0.00769	0.0352	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00728	0.00543	0.0333	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00312	0.0038	0.022	—	pCi/L	Y	U	U	11-1674	CALA-11-5165	GELC
R-6i	602	08/19/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00862	0.0046	0.049	—	pCi/L	Y	U	U	10-4259	CALA-10-25228	GELC
R-6i	602	07/14/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0387	0.012	0.064	—	pCi/L	Y	U	U	09-2641	CALA-09-11157	GELC
R-6i	602	08/27/08	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00855	0.0071	0.024	—	pCi/L	Y	U	U	08-1798	CALA-08-13889	GELC
R-6i	602	08/27/08	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00101	0.0025	0.035	—	pCi/L	Y	U	U	08-1798	CALA-08-13892	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.5	—	—	1	µg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.3	—	—	1	µg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.3	—	—	1	µg/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.3	—	—	1	µg/L	Y	—	NQ	10-4259	CALA-10-25227	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.7	—	—	1	µg/L	Y	—	NQ	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	23.1	—	—	1	µg/L	Y	—	NQ	08-1797	CALA-08-13890	GELC
R-6i	602	08/27/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	23.7	—	—	1	µg/L	Y	—	NQ	08-1797	CALA-08-13893	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	21.3	—	—	15	µg/L	Y	J	J	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	21.3	—	—	15	µg/L	Y	J	J	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	23.1	—	—	15	µg/L	Y	J	J	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	18.9	—	—	15	µg/L	Y	J	J	10-4259	CALA-10-25227	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	16.1	—	—	15	µg/L	Y	J	J	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	17.9	—	—	10	µg/L	Y	J	J	08-1797	CALA-08-13890	GELC
R-6i	602	08/27/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	14.2	—	—	10	µg/L	Y	J	J	08-1797	CALA-08-13893	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0762	—	—	0.067	mg/L	Y	J	J	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0903	—	—	0.067	mg/L	Y	J	J	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.122	—	—	0.066	mg/L	Y	J	J	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.066	mg/L	Y	U	U	10-4259	CALA-10-25227	GELC
R-6i	602	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.066	mg/L	Y	U	U	10-1189	CALA-10-9178	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.066	mg/L	Y	U	U	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	22.5	—	—	0.05	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	22.3	—	—	0.05	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	23	—	—	0.05	mg/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.7	—	—	0.05	mg/L	Y	—	NQ	10-4259	CALA-10-25227	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	22.1	—	—	0.05	mg/L	Y	—	NQ	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	23	—	—	0.03	mg/L	Y	—	NQ	08-1797	CALA-08-13890	GELC
R-6i	602	08/27/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	23.4	—	—	0.03	mg/L	Y	—	NQ	08-1797	CALA-08-13893	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.8	1.63	5.61	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.58	1.62	5.35	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	03/17/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.9	1.6	5.8	—	pCi/L	Y	U	U	11-1674	CALA-11-5165	GELC
R-6i	602	08/19/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.0636	1.1	3.7	—	pCi/L	Y	U	U	10-4259	CALA-10-25228	GELC
R-6i	602	07/14/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.268	1.3	4.3	—	pCi/L	Y	U	U	09-2641	CALA-09-11157	GELC

Table C-2 TA-21 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-6i	602	08/27/08	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.604	1.7	5.4	—	pCi/L	Y	U	U	08-1798	CALA-08-13892	GELC
R-6i	602	08/27/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.174	1.3	4.4	—	pCi/L	Y	U	U	08-1798	CALA-08-13889	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	17.2	—	—	0.067	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	17.2	—	—	0.067	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	16.8	—	—	0.066	mg/L	Y	—	J+	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	16.3	—	—	0.066	mg/L	Y	—	NQ	10-4259	CALA-10-25227	GELC
R-6i	602	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	16	—	—	0.066	mg/L	Y	—	NQ	10-1189	CALA-10-9178	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	16.6	—	—	0.066	mg/L	Y	—	NQ	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.92	—	—	2	µg/L	Y	J	J	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	6.08	—	—	2	µg/L	Y	J	J	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.94	—	—	2	µg/L	Y	J	J	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2.5	µg/L	Y	U	U	10-4259	CALA-10-25227	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.48	—	—	2.5	µg/L	Y	J	J	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	5.6	—	—	1.5	µg/L	Y	—	U	08-1797	CALA-08-13890	GELC
R-6i	602	08/27/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	5.9	—	—	1.5	µg/L	Y	—	U	08-1797	CALA-08-13893	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.21	1.5	6.05	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.33	1.36	6	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	03/17/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.78	1.6	4.7	—	pCi/L	Y	U	U	11-1674	CALA-11-5165	GELC
R-6i	602	08/19/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.282	1	3.3	—	pCi/L	Y	U	U	10-4259	CALA-10-25228	GELC
R-6i	602	07/14/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.03	1.5	5	—	pCi/L	Y	U	U	09-2641	CALA-09-11157	GELC
R-6i	602	08/27/08	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.968	2	6.7	—	pCi/L	Y	U	U	08-1798	CALA-08-13892	GELC
R-6i	602	08/27/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.804	1.5	4.6	—	pCi/L	Y	U	U	08-1798	CALA-08-13889	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.695	—	—	0.033	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.706	—	—	0.033	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.662	—	—	0.033	mg/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.654	—	—	0.033	mg/L	Y	—	NQ	10-4259	CALA-10-25227	GELC
R-6i	602	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.899	—	—	0.033	mg/L	Y	—	NQ	10-1189	CALA-10-9178	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.66	—	—	0.033	mg/L	Y	—	NQ	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.24	0.695	2.1	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.499	0.55	2.06	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	03/17/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.782	0.58	1.9	—	pCi/L	Y	U	U	11-1674	CALA-11-5165	GELC
R-6i	602	08/19/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.367	0.65	2.7	—	pCi/L	Y	U	U	10-4259	CALA-10-25228	GELC
R-6i	602	07/14/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.61	0.56	2	—	pCi/L	Y	U	U	09-2641	CALA-09-11157	GELC
R-6i	602	07/17/07	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.23	0.915	2.27	—	pCi/L	Y	U	U	189841	GU070700G6IR01	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.664	0.624	2.16	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.326	0.609	2.23	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	03/17/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.28	0.74	2.4	—	pCi/L	Y	U	U	11-1674	CALA-11-5165	GELC
R-6i	602	08/19/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.154	0.79	2.9	—	pCi/L	Y	U	U	10-4259	CALA-10-25228	GELC
R-6i	602	07/14/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.699	0.44	1.4	—	pCi/L	Y	U	U	09-2641	CALA-09-11157	GELC
R-6i	602	07/17/07	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.58	0.899	2.73	—	pCi/L	Y	U	U	189841	GU070700G6IR01	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	73.3	—	—	0.453	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	72.7	—	—	0.453	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	74.3	—	—	0.45	mg/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	70.5	—	—	0.35	mg/L	Y	—	NQ	10-4259	CALA-10-25227	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	71.6	—	—	0.35	mg/L	Y	—	NQ	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/08	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	76.2	—	—	0.35	mg/L	Y	—	NQ	08-1797	CALA-08-13893	GELC
R-6i	602	08/27/08	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	74.7	—	—	0.35	mg/L	Y	—	NQ	08-1797	CALA-08-13890	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.14	—	—	0.11	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.13	—	—	0.11	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.1	—	—	0.11	mg/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.98	—	—	0.085	mg/L	Y	—	NQ	10-4259	CALA-10-25227	GELC

Table C-2 TA-21 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-6i	602	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.99	—	—	0.085	mg/L	Y	—	NQ	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.21	—	—	0.085	mg/L	Y	—	NQ	08-1797	CALA-08-13890	GELC
R-6i	602	08/27/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.33	—	—	0.085	mg/L	Y	—	NQ	08-1797	CALA-08-13893	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.58	—	—	0.165	µg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.58	—	—	0.165	µg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.46	—	—	0.17	µg/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.46	—	—	0.1	µg/L	Y	—	NQ	10-4259	CALA-10-25227	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.51	—	—	0.1	µg/L	Y	—	NQ	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.4	—	—	0.1	µg/L	Y	—	U	08-1797	CALA-08-13890	GELC
R-6i	602	08/27/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.3	—	—	0.1	µg/L	Y	—	U	08-1797	CALA-08-13893	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.89	3.15	11.5	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.801	2.67	9.83	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	03/17/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.606	2.8	9.3	—	pCi/L	Y	U	U	11-1674	CALA-11-5165	GELC
R-6i	602	08/19/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.608	2.3	7.6	—	pCi/L	Y	U	U	10-4259	CALA-10-25228	GELC
R-6i	602	07/14/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.67	12	35	—	pCi/L	Y	U	U	09-2641	CALA-09-11157	GELC
R-6i	602	08/27/08	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-25.8	12	33	—	pCi/L	Y	U	U	08-1798	CALA-08-13892	GELC
R-6i	602	08/27/08	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-12.6	9.6	29	—	pCi/L	Y	U	U	08-1798	CALA-08-13889	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.24	—	—	0.5	µg/L	Y	J	J	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.27	—	—	0.5	µg/L	Y	J	J	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.3	—	—	0.5	µg/L	Y	J	J	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.09	—	—	0.5	µg/L	Y	J	J	10-4259	CALA-10-25227	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.27	—	—	0.5	µg/L	Y	J	J	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.5	—	—	0.5	µg/L	Y	J	J	08-1797	CALA-08-13890	GELC
R-6i	602	08/27/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.4	—	—	0.5	µg/L	Y	J	J	08-1797	CALA-08-13893	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.57	—	—	0.085	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.21	—	—	0.085	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.75	—	—	0.05	mg/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.88	—	—	0.25	mg/L	Y	—	NQ	10-4259	CALA-10-25227	GELC
R-6i	602	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.77	—	—	0.1	mg/L	Y	—	NQ	10-1189	CALA-10-9178	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	4.57	—	—	0.05	mg/L	Y	—	NQ	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	5.98	—	—	0.5	µg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	6.09	—	—	0.5	µg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	6.38	—	—	0.5	µg/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	6.17	—	—	0.5	µg/L	Y	—	NQ	10-4259	CALA-10-25227	GELC
R-6i	602	01/08/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	6.72	—	—	0.5	µg/L	Y	—	NQ	10-1189	CALA-10-9178	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	7	—	—	0.5	µg/L	Y	—	NQ	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00346	0.0246	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00347	0.0247	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00596	0.0033	0.019	—	pCi/L	Y	U	U	11-1674	CALA-11-5165	GELC
R-6i	602	08/19/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00939	0.017	0.021	—	pCi/L	Y	U	U	10-4259	CALA-10-25228	GELC
R-6i	602	07/14/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00735	0.009	0.059	—	pCi/L	Y	U	U	09-2641	CALA-09-11157	GELC
R-6i	602	08/27/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.018	0.019	0.036	—	pCi/L	Y	U	U	08-1798	CALA-08-13889	GELC
R-6i	602	08/27/08	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00924	0.008	0.032	—	pCi/L	Y	U	U	08-1798	CALA-08-13892	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00489	0.00489	0.0289	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0098	0.006	0.029	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00894	0.006	0.028	—	pCi/L	Y	U	U	11-1674	CALA-11-5165	GELC
R-6i	602	08/19/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00939	0.0094	0.034	—	pCi/L	Y	U	U	10-4259	CALA-10-25228	GELC
R-6i	602	07/14/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.022	0.0097	0.072	—	pCi/L	Y	U	U	09-2641	CALA-09-11157	GELC
R-6i	602	08/27/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0103	0.0096	0.044	—	pCi/L	Y	U	U	08-1798	CALA-08-13889	GELC
R-6i	602	08/27/08	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00924	0.0086	0.039	—	pCi/L	Y	U	U	08-1798	CALA-08-13892	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	0.645	—	—	0.05	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC

Table C-2 TA-21 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-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	0.621	—	—	0.05	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	0.706	—	—	0.05	mg/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	N	0.657	—	—	0.05	mg/L	Y	—	U	10-4259	CALA-10-25227	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	0.617	—	—	0.05	mg/L	Y	—	NQ	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	0.629	—	—	0.05	mg/L	Y	—	NQ	08-1797	CALA-08-13890	GELC
R-6i	602	08/27/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	0.586	—	—	0.05	mg/L	Y	—	NQ	08-1797	CALA-08-13893	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	27.2	18.3	75.6	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-32.1	17.6	59.9	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	03/17/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	12.4	15	54	—	pCi/L	Y	U	U	11-1674	CALA-11-5165	GELC
R-6i	602	08/19/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-7.73	16	48	—	pCi/L	Y	U	U	10-4259	CALA-10-25228	GELC
R-6i	602	07/14/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	66.3	23	42	—	pCi/L	Y	—	U	09-2641	CALA-09-11157	GELC
R-6i	602	08/27/08	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-26.2	19	63	—	pCi/L	Y	U	U	08-1798	CALA-08-13889	GELC
R-6i	602	08/27/08	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	1.72	21	78	—	pCi/L	Y	U	U	08-1798	CALA-08-13892	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.4	—	—	0.053	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.5	—	—	0.053	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.4	—	—	0.053	mg/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	68	—	—	0.053	mg/L	Y	—	NQ	10-4259	CALA-10-25227	GELC
R-6i	602	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.8	—	—	0.053	mg/L	Y	—	NQ	10-1189	CALA-10-9178	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.3	—	—	0.053	mg/L	Y	—	NQ	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	21.1	—	—	0.1	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	20.7	—	—	0.1	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	19.9	—	—	0.1	mg/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	20.2	—	—	0.1	mg/L	Y	—	NQ	10-4259	CALA-10-25227	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	22.2	—	—	0.1	mg/L	Y	—	NQ	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	20.3	—	—	0.045	mg/L	Y	—	NQ	08-1797	CALA-08-13890	GELC
R-6i	602	08/27/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	19.7	—	—	0.045	mg/L	Y	—	NQ	08-1797	CALA-08-13893	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.17	1.42	6.07	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.17	1.39	5.45	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	03/17/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.625	1.3	4.7	—	pCi/L	Y	U	U	11-1674	CALA-11-5165	GELC
R-6i	602	08/19/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.05	1.2	3.7	—	pCi/L	Y	U	U	10-4259	CALA-10-25228	GELC
R-6i	602	07/14/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.816	1.3	4.4	—	pCi/L	Y	U	U	09-2641	CALA-09-11157	GELC
R-6i	602	08/27/08	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.194	0.96	3.1	—	pCi/L	Y	U	U	08-1798	CALA-08-13889	GELC
R-6i	602	08/27/08	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	2.69	1.5	5.8	—	pCi/L	Y	U	U	08-1798	CALA-08-13892	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	243	—	—	1	µS/cm	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	241	—	—	1	µS/cm	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	238	—	—	1	µS/cm	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	239	—	—	1	µS/cm	Y	—	NQ	10-4259	CALA-10-25227	GELC
R-6i	602	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	236	—	—	1	µS/cm	Y	—	NQ	10-1189	CALA-10-9178	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	237	—	—	1	µS/cm	Y	—	NQ	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	103	—	—	1	µg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	102	—	—	1	µg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	103	—	—	1	µg/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	102	—	—	1	µg/L	Y	—	NQ	10-4259	CALA-10-25227	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	111	—	—	1	µg/L	Y	—	NQ	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	105	—	—	1	µg/L	Y	—	NQ	08-1797	CALA-08-13890	GELC
R-6i	602	08/27/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	102	—	—	1	µg/L	Y	—	NQ	08-1797	CALA-08-13893	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0852	0.0492	0.162	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0497	0.0428	0.155	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	03/17/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.164	0.14	0.5	—	pCi/L	Y	U	U	11-1674	CALA-11-5165	GELC
R-6i	602	08/19/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0586	0.13	0.46	—	pCi/L	Y	U	U	10-4259	CALA-10-25228	GELC
R-6i	602	07/14/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0629	0.087	0.36	—	pCi/L	Y	U	U	09-2641	CALA-09-11157	GELC

Table C-2 TA-21 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-6i	602	08/27/08	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.324	0.17	0.55	—	pCi/L	Y	U	U	08-1798	CALA-08-13892	GELC
R-6i	602	08/27/08	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.268	0.13	0.55	—	pCi/L	Y	U	U	08-1798	CALA-08-13889	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.44	—	—	0.133	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.41	—	—	0.133	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.73	—	—	0.1	mg/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.53	—	—	0.1	mg/L	Y	—	NQ	10-4259	CALA-10-25227	GELC
R-6i	602	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.49	—	—	0.1	mg/L	Y	—	NQ	10-1189	CALA-10-9178	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.86	—	—	0.1	mg/L	Y	—	NQ	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	184	—	—	3.4	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	199	—	—	3.4	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	206	—	—	2.4	mg/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	210	—	—	2.4	mg/L	Y	—	NQ	10-4259	CALA-10-25227	GELC
R-6i	602	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	206	—	—	2.4	mg/L	Y	—	NQ	10-1189	CALA-10-9178	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	198	—	—	2.4	mg/L	Y	—	J	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.609	—	—	0.33	mg/L	Y	J	J	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.601	—	—	0.33	mg/L	Y	J	J	12-1518	CALA-12-22801	GELC
R-6i	602	03/17/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.509	—	—	0.33	mg/L	Y	J	J	11-1673	CALA-11-5165	GELC
R-6i	602	08/19/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.581	—	—	0.33	mg/L	Y	J	J	10-4259	CALA-10-25228	GELC
R-6i	602	01/08/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.544	—	—	0.33	mg/L	Y	J	J	10-1187	CALA-10-9177	GELC
R-6i	602	07/14/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	09-2639	CALA-09-11157	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	2550	100	129	—	pCi/L	Y	—	NQ	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	EPA:906.0	Tritium	H-3	Y	2630	102	131	—	pCi/L	Y	—	NQ	12-1518	CALA-12-22801	GELC
R-6i	602	03/17/11	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	2540	270	190	—	pCi/L	Y	—	NQ	11-1674	CALA-11-5165	GELC
R-6i	602	08/19/10	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	3040	320	110	—	pCi/L	Y	—	NQ	10-4259	CALA-10-25228	GELC
R-6i	602	01/08/10	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	3490	360	160	—	pCi/L	Y	—	NQ	10-1189	CALA-10-9177	GELC
R-6i	602	07/14/09	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	3230	340	200	—	pCi/L	Y	—	NQ	09-2641	CALA-09-11157	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.352	—	—	0.067	µg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.377	—	—	0.067	µg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.448	—	—	0.067	µg/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.381	—	—	0.05	µg/L	Y	—	NQ	10-4259	CALA-10-25227	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.544	—	—	0.05	µg/L	Y	—	NQ	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.51	—	—	0.05	µg/L	Y	—	J	08-1797	CALA-08-13890	GELC
R-6i	602	08/27/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.52	—	—	0.05	µg/L	Y	—	J	08-1797	CALA-08-13893	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.361	0.0335	0.0753	—	pCi/L	Y	—	NQ	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.369	0.0325	0.0681	—	pCi/L	Y	—	NQ	12-1518	CALA-12-22801	GELC
R-6i	602	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.356	0.038	0.048	—	pCi/L	Y	—	NQ	11-1674	CALA-11-5165	GELC
R-6i	602	08/19/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.365	0.043	0.089	—	pCi/L	Y	—	NQ	10-4259	CALA-10-25228	GELC
R-6i	602	07/14/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.404	0.068	0.27	—	pCi/L	Y	—	NQ	09-2641	CALA-09-11157	GELC
R-6i	602	08/27/08	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.304	0.031	0.068	—	pCi/L	Y	—	NQ	08-1798	CALA-08-13892	GELC
R-6i	602	08/27/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.43	0.04	0.075	—	pCi/L	Y	—	NQ	08-1798	CALA-08-13889	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.00697	0.0486	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00946	0.00705	0.044	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0083	0.0048	0.031	—	pCi/L	Y	U	U	11-1674	CALA-11-5165	GELC
R-6i	602	08/19/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0151	0.0076	0.042	—	pCi/L	Y	U	U	10-4259	CALA-10-25228	GELC
R-6i	602	07/14/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.01	0.14	—	pCi/L	Y	U	U	09-2641	CALA-09-11157	GELC
R-6i	602	08/27/08	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0147	0.007	0.036	—	pCi/L	Y	U	U	08-1798	CALA-08-13892	GELC
R-6i	602	08/27/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0108	0.0086	0.04	—	pCi/L	Y	U	U	08-1798	CALA-08-13889	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.124	0.0195	0.0382	—	pCi/L	Y	—	NQ	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.13	0.0189	0.0346	—	pCi/L	Y	—	NQ	12-1518	CALA-12-22801	GELC
R-6i	602	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.121	0.02	0.033	—	pCi/L	Y	—	NQ	11-1674	CALA-11-5165	GELC
R-6i	602	08/19/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.147	0.024	0.054	—	pCi/L	Y	—	NQ	10-4259	CALA-10-25228	GELC

Table C-2 TA-21 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-6i	602	07/14/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.18	0.042	0.14	—	pCi/L	Y	—	NQ	09-2641	CALA-09-11157	GELC
R-6i	602	08/27/08	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.103	0.016	0.036	—	pCi/L	Y	—	NQ	08-1798	CALA-08-13892	GELC
R-6i	602	08/27/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.209	0.025	0.039	—	pCi/L	Y	—	NQ	08-1798	CALA-08-13889	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.43	—	—	1	µg/L	Y	J	J	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.19	—	—	1	µg/L	Y	J	J	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.87	—	—	1	µg/L	Y	J	J	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	2	—	—	1	µg/L	Y	J	J	10-4259	CALA-10-25227	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.66	—	—	1	µg/L	Y	J	J	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	3.8	—	—	1	µg/L	Y	J	U	08-1797	CALA-08-13890	GELC
R-6i	602	08/27/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	N	3.9	—	—	1	µg/L	Y	J	U	08-1797	CALA-08-13893	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	7.92	—	—	3.3	µg/L	Y	J	J	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	7.84	—	—	3.3	µg/L	Y	J	J	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.35	—	—	3.3	µg/L	Y	J	J	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	10-4259	CALA-10-25227	GELC
R-6i	602	07/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	6.65	—	—	3.3	µg/L	Y	J	J	09-2640	CALA-09-11158	GELC
R-6i	602	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	14	—	—	2	µg/L	Y	—	U	08-1797	CALA-08-13890	GELC
R-6i	602	08/27/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	N	13.1	—	—	2	µg/L	Y	—	U	08-1797	CALA-08-13893	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.24	—	—	0.01	SU	Y	H	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.18	—	—	0.01	SU	Y	H	J-	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.34	—	—	0.01	SU	Y	H	J-	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	01/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.41	—	—	0.01	SU	Y	H	J-	09-599	CALA-09-1762	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.25	—	—	0.01	SU	Y	H	J-	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.7	—	—	0.725	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	65.8	—	—	0.73	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.2	—	—	0.73	mg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	01/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.7	—	—	0.73	mg/L	Y	—	NQ	09-599	CALA-09-1762	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.7	—	—	0.73	mg/L	Y	—	NQ	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00673	0.00951	0.0465	—	pCi/L	Y	U	U	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00968	0.0058	0.028	—	pCi/L	Y	U	U	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00029	0.013	0.044	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/04/08	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00152	0.0024	0.032	—	pCi/L	Y	U	U	08-1855	CALA-08-13906	GELC
R-8 S1	705.31	01/16/08	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0241	0.017	0.035	—	pCi/L	Y	U	U	08-528	CALA-08-9947	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.8	—	—	1	µg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24.8	—	—	1	µg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24	—	—	1	µg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	25.1	—	—	1	µg/L	Y	—	NQ	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.8	—	—	1	µg/L	Y	—	NQ	08-528	CALA-08-9945	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	17.4	—	—	15	µg/L	Y	J	J	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	17.2	—	—	15	µg/L	Y	J	J	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	µg/L	Y	U	U	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	19.2	—	—	10	µg/L	Y	J	J	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	25.2	—	—	10	µg/L	Y	J	U	08-528	CALA-08-9945	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	16.5	—	—	0.05	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	16.7	—	—	0.05	mg/L	Y	—	J+	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	16.7	—	—	0.05	mg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.4	—	—	0.03	mg/L	Y	—	NQ	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.1	—	—	0.03	mg/L	Y	—	NQ	08-528	CALA-08-9945	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.79	1.41	4.84	—	pCi/L	Y	U	U	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.325	1.3	4	—	pCi/L	Y	U	U	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.49	1.7	5.3	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/04/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.691	1.1	3.5	—	pCi/L	Y	U	U	08-1855	CALA-08-13906	GELC

Table C-2 TA-21 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-8 S1	705.31	01/16/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.05	1.1	3.9	—	pCi/L	Y	U	U	08-528	CALA-08-9947	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.4	—	—	0.067	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.37	—	—	0.066	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.45	—	—	0.066	mg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	01/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.33	—	—	0.066	mg/L	Y	—	NQ	09-599	CALA-09-1762	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.38	—	—	0.066	mg/L	Y	—	J-	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.42	—	—	2	µg/L	Y	J	J	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	8.75	—	—	2.5	µg/L	Y	J	J	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4	—	—	1.5	µg/L	Y	—	NQ	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.7	—	—	2.5	µg/L	Y	J	J	08-528	CALA-08-9945	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.774	1.69	6.86	—	pCi/L	Y	U	U	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.31	1.5	5.3	—	pCi/L	Y	U	U	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.366	1.2	3.9	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/04/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.4	1.2	4.4	—	pCi/L	Y	U	U	08-1855	CALA-08-13906	GELC
R-8 S1	705.31	01/16/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.622	1.1	3.2	—	pCi/L	Y	U	U	08-528	CALA-08-9947	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.477	—	—	0.033	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.451	—	—	0.033	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.543	—	—	0.033	mg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	01/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.542	—	—	0.033	mg/L	Y	—	J-	09-599	CALA-09-1762	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.562	—	—	0.033	mg/L	Y	—	NQ	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.798	0.64	2.23	—	pCi/L	Y	U	U	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.496	0.56	2.3	—	pCi/L	Y	U	U	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.0168	0.39	1.5	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	07/24/07	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.124	0.31	1.5	—	pCi/L	Y	U	U	190192	GU07070G08R101	GELC
R-8 S1	705.31	08/01/06	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.0449	0.493	2.16	—	pCi/L	Y	U	U	168595	GU06070G08R101	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.41	0.874	2.37	—	pCi/L	Y	—	NQ	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.35	1	2.5	—	pCi/L	Y	—	NQ	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.952	0.83	2.8	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	07/24/07	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.16	1.01	2.96	—	pCi/L	Y	—	J	190192	GU07070G08R101	GELC
R-8 S1	705.31	08/01/06	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.02	0.717	2.28	—	pCi/L	Y	U	U	168595	GU06070G08R101	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	52.1	—	—	0.453	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	52.1	—	—	0.45	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	52.5	—	—	0.35	mg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	55.1	—	—	0.35	mg/L	Y	—	NQ	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	01/16/08	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	53.9	—	—	0.43	mg/L	Y	—	NQ	08-528	CALA-08-9945	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.66	—	—	0.11	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.55	—	—	0.11	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.62	—	—	0.085	mg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.85	—	—	0.085	mg/L	Y	—	NQ	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.73	—	—	0.085	mg/L	Y	—	NQ	08-528	CALA-08-9945	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.66	—	—	0.165	µg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.52	—	—	0.17	µg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.47	—	—	0.1	µg/L	Y	—	J	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.7	—	—	0.1	µg/L	Y	—	J	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Molybdenum	Mo	N	10	—	—	2	µg/L	Y	U	U	08-528	CALA-08-9945	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.88	2.88	11	—	pCi/L	Y	U	U	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.46	2.4	7.3	—	pCi/L	Y	U	U	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	16.7	11	39	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/04/08	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.505	9.8	31	—	pCi/L	Y	U	U	08-1855	CALA-08-13906	GELC
R-8 S1	705.31	01/16/08	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	7.98	8	28	—	pCi/L	Y	U	U	08-528	CALA-08-9947	GELC

Table C-2 TA-21 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-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.587	—	—	0.017	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.468	—	—	0.05	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.158	—	—	0.01	mg/L	Y	—	U	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	01/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.35	—	—	0.05	mg/L	Y	—	NQ	09-599	CALA-09-1762	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0925	—	—	0.01	mg/L	Y	—	NQ	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.328	—	—	0.05	µg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.344	—	—	0.05	µg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.302	—	—	0.05	µg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	01/08/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	N	0.313	—	—	0.05	µg/L	Y	—	U	09-599	CALA-09-1762	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.31	—	—	0.05	µg/L	Y	—	NQ	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00455	0.0325	—	pCi/L	Y	U	U	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00807	0.0045	0.025	—	pCi/L	Y	U	U	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00185	0.0032	0.029	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/04/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.008	0.05	—	pCi/L	Y	U	U	08-1855	CALA-08-13906	GELC
R-8 S1	705.31	01/16/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0113	0.0094	0.042	—	pCi/L	Y	U	U	08-528	CALA-08-9947	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00322	0.00558	0.0381	—	pCi/L	Y	U	U	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00202	0.0029	0.038	—	pCi/L	Y	U	U	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-2.2E-10	0.0026	0.036	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/04/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00653	0.0046	0.056	—	pCi/L	Y	U	U	08-1855	CALA-08-13906	GELC
R-8 S1	705.31	01/16/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00453	0.0072	0.049	—	pCi/L	Y	U	U	08-528	CALA-08-9947	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.99	—	—	0.05	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.04	—	—	0.05	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.02	—	—	0.05	mg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.22	—	—	0.05	mg/L	Y	—	NQ	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.02	—	—	0.05	mg/L	Y	—	NQ	08-528	CALA-08-9945	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	12.6	20.2	83.3	—	pCi/L	Y	U	U	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	10.8	18	66	—	pCi/L	Y	U	U	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-8.58	15	50	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/04/08	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	3.4	13	31	—	pCi/L	Y	U	U	08-1855	CALA-08-13906	GELC
R-8 S1	705.31	01/16/08	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-23.1	17	51	—	pCi/L	Y	U	U	08-528	CALA-08-9947	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	58	—	—	0.053	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	56.6	—	—	0.053	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	59.3	—	—	0.053	mg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	01/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	57.7	—	—	0.032	mg/L	Y	—	NQ	09-599	CALA-09-1762	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	57.6	—	—	0.032	mg/L	Y	—	NQ	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.06	—	—	0.1	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.33	—	—	0.1	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.1	—	—	0.1	mg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.73	—	—	0.045	mg/L	Y	—	NQ	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.24	—	—	0.045	mg/L	Y	—	NQ	08-528	CALA-08-9945	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.44	1.64	5.47	—	pCi/L	Y	U	U	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.11	1.3	3.8	—	pCi/L	Y	U	U	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.31	1.5	5.5	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/04/08	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.117	1.1	3.5	—	pCi/L	Y	U	U	08-1855	CALA-08-13906	GELC
R-8 S1	705.31	01/16/08	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.07	1.2	3.6	—	pCi/L	Y	U	U	08-528	CALA-08-9947	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	146	—	—	1	µS/cm	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	146	—	—	1	µS/cm	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	148	—	—	1	µS/cm	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	01/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	145	—	—	1	µS/cm	Y	—	NQ	09-599	CALA-09-1762	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	152	—	—	1	µS/cm	Y	—	NQ	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	88	—	—	1	µg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC

Table C-2 TA-21 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-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	88.8	—	—	1	µg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	99.4	—	—	1	µg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	91.3	—	—	1	µg/L	Y	—	NQ	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	90.6	—	—	1	µg/L	Y	—	NQ	08-528	CALA-08-9945	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.028	0.1	0.339	—	pCi/L	Y	U	U	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.379	0.16	0.51	—	pCi/L	Y	U	U	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0758	0.11	0.37	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/04/08	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.391	0.16	0.48	—	pCi/L	Y	U	U	08-1855	CALA-08-13906	GELC
R-8 S1	705.31	01/16/08	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.00034	0.055	0.21	—	pCi/L	Y	U	U	08-528	CALA-08-9947	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.3	—	—	0.133	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.42	—	—	0.1	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.31	—	—	0.1	mg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	01/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.23	—	—	0.1	mg/L	Y	—	J-	09-599	CALA-09-1762	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.09	—	—	0.1	mg/L	Y	—	J-	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	114	—	—	3.4	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	125	—	—	2.4	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	124	—	—	2.4	mg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	01/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	136	—	—	2.4	mg/L	Y	—	NQ	09-599	CALA-09-1762	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	133	—	—	2.4	mg/L	Y	—	NQ	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.474	—	—	0.33	mg/L	Y	J	J	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.421	—	—	0.33	mg/L	Y	J	J	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	0.695	—	—	0.33	mg/L	Y	J	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	01/08/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.821	—	—	0.33	mg/L	Y	J	J	09-599	CALA-09-1761	GELC
R-8 S1	705.31	09/04/08	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.458	—	—	0.33	mg/L	Y	J	J	08-1854	CALA-08-13906	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0466	—	—	0.017	mg/L	Y	J	J	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.015	mg/L	Y	U	U	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.046	—	—	0.015	mg/L	Y	J	J	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	01/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.053	—	—	0.024	mg/L	Y	—	U	09-599	CALA-09-1762	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.024	mg/L	Y	U	U	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.308	0.658	2.212	—	pCi/L	Y	U	U	12-1536	CALA-12-22895	ARSL
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.8032	0.7084	2.3184	—	pCi/L	N	U	R	11-1710	CALA-11-5178	ARSL
R-8 S1	705.31	03/16/11	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.2254	0.6762	2.3184	—	pCi/L	Y	U	U	11-1710	CALA-11-5178	ARSL
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.0644	0.2898	0.2898	—	pCi/L	Y	U	U	09-2699	CALA-09-11171	UMTL
R-8 S1	705.31	01/08/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.161	0.2898	0.2898	—	pCi/L	Y	U	U	09-621	CALA-09-1761	UMTL
R-8 S1	705.31	09/04/08	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.2576	0.2898	0.2898	—	pCi/L	Y	U	U	08-1899	CALA-08-13906	UMTL
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.277	—	—	0.067	µg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.261	—	—	0.067	µg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.219	—	—	0.05	µg/L	Y	—	U	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.28	—	—	0.05	µg/L	Y	—	NQ	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.28	—	—	0.05	µg/L	Y	—	U	08-528	CALA-08-9945	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.102	0.0264	0.0853	—	pCi/L	Y	—	J	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.235	0.032	0.063	—	pCi/L	Y	—	NQ	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.185	0.038	0.18	—	pCi/L	Y	—	NQ	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/04/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.223	0.028	0.077	—	pCi/L	Y	—	NQ	08-1855	CALA-08-13906	GELC
R-8 S1	705.31	01/16/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.21	0.026	0.077	—	pCi/L	Y	—	NQ	08-528	CALA-08-9947	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	1.3E-09	0.00955	0.0361	—	pCi/L	Y	U	U	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00363	0.0063	0.04	—	pCi/L	Y	U	U	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00327	0.0073	0.087	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/04/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.022	0.0079	0.041	—	pCi/L	Y	U	U	08-1855	CALA-08-13906	GELC
R-8 S1	705.31	01/16/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0134	0.006	0.038	—	pCi/L	Y	U	U	08-528	CALA-08-9947	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0442	0.0161	0.0425	—	pCi/L	Y	—	J	12-1534	CALA-12-22895	GELC

Table C-2 TA-21 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-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.117	0.021	0.043	—	pCi/L	Y	—	NQ	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.118	0.027	0.088	—	pCi/L	Y	—	NQ	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/04/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.109	0.019	0.04	—	pCi/L	Y	—	NQ	08-1855	CALA-08-13906	GELC
R-8 S1	705.31	01/16/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.104	0.018	0.045	—	pCi/L	Y	—	NQ	08-528	CALA-08-9947	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	13.1	—	—	1	µg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.9	—	—	1	µg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	14.4	—	—	1	µg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	14.2	—	—	1	µg/L	Y	—	NQ	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	13.6	—	—	1	µg/L	Y	—	NQ	08-528	CALA-08-9945	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.77	—	—	3.3	µg/L	Y	J	J	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.82	—	—	3.3	µg/L	Y	J	J	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	2.3	—	—	2	µg/L	Y	J	J	08-1855	CALA-08-13903	GELC
R-8 S1	705.31	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	2.8	—	—	2	µg/L	Y	J	J	08-528	CALA-08-9945	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	9.03	—	—	0.01	SU	Y	H	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.68	—	—	0.01	SU	Y	H	J-	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.57	—	—	0.01	SU	Y	H	J-	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.71	—	—	0.01	SU	Y	H	J-	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.98	—	—	0.01	SU	Y	H	J-	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	9.44	—	—	0.725	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	8.42	—	—	0.73	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	5.21	—	—	0.73	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	11.8	—	—	0.73	mg/L	Y	—	NQ	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	16.8	—	—	0.73	mg/L	Y	—	NQ	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	92.8	—	—	0.725	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	87.4	—	—	0.73	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	95.8	—	—	0.73	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	84.8	—	—	0.73	mg/L	Y	—	NQ	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	80.1	—	—	0.73	mg/L	Y	—	NQ	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00598	0.00598	0.0275	—	pCi/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00657	0.0047	0.023	—	pCi/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0235	0.0096	0.03	—	pCi/L	Y	U	U	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/03/08	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00306	0.0043	0.032	—	pCi/L	Y	U	U	08-1832	CALA-08-13909	GELC
R-8 S2	821	01/15/08	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00333	0.0058	0.03	—	pCi/L	Y	U	U	08-528	CALA-08-9940	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	4.51	—	—	1.7	µg/L	Y	J	J	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.75	—	—	1.7	µg/L	Y	J	J	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	4.28	—	—	1.5	µg/L	Y	J	U	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.7	—	—	1.5	µg/L	Y	J	J	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.4	—	—	1.5	µg/L	Y	J	J	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	198	—	—	1	µg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	164	—	—	1	µg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	183	—	—	1	µg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	157	—	—	1	µg/L	Y	—	NQ	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	169	—	—	1	µg/L	Y	—	NQ	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	31.8	—	—	15	µg/L	Y	J	J	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	34.8	—	—	15	µg/L	Y	J	J	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	36.8	—	—	15	µg/L	Y	J	J	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	37.1	—	—	10	µg/L	Y	J	U	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	39.6	—	—	10	µg/L	Y	J	U	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.8	—	—	0.05	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	16.2	—	—	0.05	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC

Table C-2 TA-21 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-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.6	—	—	0.05	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	14.7	—	—	0.03	mg/L	Y	—	NQ	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.8	—	—	0.03	mg/L	Y	—	NQ	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.2	1.18	4.63	—	pCi/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.02	1.8	5.3	—	pCi/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.269	1.1	3.8	—	pCi/L	Y	U	U	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/03/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.64	1.3	3.9	—	pCi/L	Y	U	U	08-1832	CALA-08-13909	GELC
R-8 S2	821	01/15/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.86	1.1	3.5	—	pCi/L	Y	U	U	08-528	CALA-08-9940	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.48	—	—	0.067	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.57	—	—	0.066	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	4.09	—	—	0.066	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.75	—	—	0.066	mg/L	Y	—	J-	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.6	—	—	0.066	mg/L	Y	—	NQ	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.86	—	—	2	µg/L	Y	J	J	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.03	—	—	2	µg/L	Y	J	J	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	6.79	—	—	2.5	µg/L	Y	J	J	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5	—	—	1.5	µg/L	Y	*	NQ	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.9	—	—	2.5	µg/L	Y	J	J	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.22	1.23	5.31	—	pCi/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.16	1.7	6.6	—	pCi/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.33	1.1	3.5	—	pCi/L	Y	U	U	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/03/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.18	1.4	5	—	pCi/L	Y	U	U	08-1832	CALA-08-13909	GELC
R-8 S2	821	01/15/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.0586	1.3	3.6	—	pCi/L	Y	U	U	08-528	CALA-08-9940	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.361	—	—	0.033	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.351	—	—	0.033	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.547	—	—	0.033	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.454	—	—	0.033	mg/L	Y	—	NQ	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.36	—	—	0.033	mg/L	Y	—	J-	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.428	0.711	2.84	—	pCi/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.36	0.99	2.5	—	pCi/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.634	0.37	2.9	—	pCi/L	Y	U	U	09-2594	CALA-09-11176	GELC
R-8 S2	821	04/28/05	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.559	0.488	1.66	—	pCi/L	Y	U	U	135560	GU0504G08R201	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.15	0.78	1.99	—	pCi/L	Y	—	NQ	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.42	0.83	2.3	—	pCi/L	Y	—	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.8	0.87	2.4	—	pCi/L	Y	—	NQ	09-2594	CALA-09-11176	GELC
R-8 S2	821	04/28/05	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	6.13	0.755	2.38	—	pCi/L	Y	—	J	135560	GU0504G08R201	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	53.1	—	—	0.453	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	60.1	—	—	0.45	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	74.3	—	—	0.35	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	56.4	—	—	0.35	mg/L	Y	—	NQ	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	50.2	—	—	0.43	mg/L	Y	—	NQ	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.02	—	—	0.11	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.76	—	—	0.11	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.96	—	—	0.085	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.76	—	—	0.085	mg/L	Y	—	NQ	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.45	—	—	0.085	mg/L	Y	—	NQ	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.13	—	—	0.165	µg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.19	—	—	0.17	µg/L	Y	—	J	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.33	—	—	0.1	µg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.1	—	—	0.1	µg/L	Y	*	J	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Molybdenum	Mo	N	10	—	—	2	µg/L	Y	U	U	08-528	CALA-08-9941	GELC

Table C-2 TA-21 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-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.05	2.59	9.87	—	pCi/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.18	3.2	11	—	pCi/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-5.86	11	35	—	pCi/L	Y	U	U	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/03/08	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-16.1	10	32	—	pCi/L	Y	U	U	08-1832	CALA-08-13909	GELC
R-8 S2	821	01/15/08	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-8.42	8.8	25	—	pCi/L	Y	U	U	08-528	CALA-08-9940	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.482	—	—	0.017	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.565	—	—	0.05	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.102	—	—	0.01	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.455	—	—	0.05	mg/L	Y	—	NQ	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.47	—	—	0.01	mg/L	Y	—	NQ	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.423	—	—	0.05	µg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.431	—	—	0.05	µg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.423	—	—	0.05	µg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.412	—	—	0.05	µg/L	Y	—	NQ	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.39	—	—	0.05	µg/L	Y	—	NQ	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00254	0.00439	0.0256	—	pCi/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00678	0.0039	0.028	—	pCi/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0133	0.0089	0.035	—	pCi/L	Y	U	U	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/03/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00946	0.0055	0.048	—	pCi/L	Y	U	U	08-1832	CALA-08-13909	GELC
R-8 S2	821	01/15/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0112	0.01	0.041	—	pCi/L	Y	U	U	08-528	CALA-08-9940	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00254	0.00567	0.03	—	pCi/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00226	0.0039	0.042	—	pCi/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0089	0.0089	0.044	—	pCi/L	Y	U	U	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/03/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0126	0.0063	0.054	—	pCi/L	Y	U	U	08-1832	CALA-08-13909	GELC
R-8 S2	821	01/15/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-1.1E-09	0.0063	0.048	—	pCi/L	Y	U	U	08-528	CALA-08-9940	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.7	—	—	0.05	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.06	—	—	0.05	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.14	—	—	0.05	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.19	—	—	0.05	mg/L	Y	—	NQ	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.45	—	—	0.05	mg/L	Y	—	NQ	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	11.4	19.5	74.3	—	pCi/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-18.5	22	69	—	pCi/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-11.5	16	54	—	pCi/L	Y	U	U	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/03/08	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-36.3	17	59	—	pCi/L	Y	U	U	08-1832	CALA-08-13909	GELC
R-8 S2	821	01/15/08	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	11.8	18	33	—	pCi/L	Y	U	U	08-528	CALA-08-9940	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	68.4	—	—	0.053	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.4	—	—	0.053	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	73	—	—	0.053	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	68.3	—	—	0.032	mg/L	Y	—	NQ	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	65.8	—	—	0.032	mg/L	Y	—	NQ	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	17	—	—	0.1	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.9	—	—	0.1	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	18.9	—	—	0.1	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	16.5	—	—	0.045	mg/L	Y	—	NQ	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	17.3	—	—	0.045	mg/L	Y	—	NQ	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.168	0.993	4.15	—	pCi/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.405	1.7	5.3	—	pCi/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.284	1.2	4.1	—	pCi/L	Y	U	U	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/03/08	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.76	1.4	4	—	pCi/L	Y	U	U	08-1832	CALA-08-13909	GELC
R-8 S2	821	01/15/08	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.869	1.2	3.7	—	pCi/L	Y	U	U	08-528	CALA-08-9940	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	181	—	—	1	µS/cm	Y	—	NQ	12-1540	CALA-12-22902	GELC

Table C-2 TA-21 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-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	194	—	—	1	µS/cm	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	209	—	—	1	µS/cm	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	193	—	—	1	µS/cm	Y	—	NQ	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	182	—	—	1	µS/cm	Y	—	NQ	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	175	—	—	1	µg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	144	—	—	1	µg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	164	—	—	1	µg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	149	—	—	1	µg/L	Y	—	NQ	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	162	—	—	1	µg/L	Y	—	NQ	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.049	0.139	0.468	—	pCi/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.144	0.15	0.51	—	pCi/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	1.36	0.18	0.35	—	pCi/L	Y	—	NQ	09-2594	CALA-09-11176	GELC
R-8 S2	821	07/09/09	WG	UF	RE	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0433	0.13	0.47	—	pCi/L	N	U	U	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/03/08	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.00189	0.043	0.15	—	pCi/L	Y	U	U	08-1832	CALA-08-13909	GELC
R-8 S2	821	01/15/08	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.429	0.15	0.44	—	pCi/L	Y	U	U	08-528	CALA-08-9940	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.74	—	—	0.133	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.19	—	—	0.1	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.35	—	—	0.1	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.08	—	—	0.1	mg/L	Y	—	J-	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.72	—	—	0.1	mg/L	Y	—	NQ	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	107	—	—	3.4	mg/L	Y	—	J	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	156	—	—	2.4	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	180	—	—	2.4	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	161	—	—	2.4	mg/L	Y	—	NQ	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	161	—	—	2.4	mg/L	Y	—	NQ	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.565	0.715	2.191	—	pCi/L	Y	U	U	12-1538	CALA-12-22896	ARSL
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.4812	0.5796	1.8998	—	pCi/L	N	U	R	11-1710	CALA-11-5183	ARSL
R-8 S2	821	03/16/11	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.4186	0.5796	1.8998	—	pCi/L	Y	U	U	11-1710	CALA-11-5183	ARSL
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.0644	0.2898	0.2898	—	pCi/L	Y	U	U	09-2606	CALA-09-11176	UMTL
R-8 S2	821	01/08/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0	0.2898	0.2898	—	pCi/L	Y	U	U	09-621	CALA-09-1749	UMTL
R-8 S2	821	09/03/08	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.12378	0.8533	2.7692	—	pCi/L	Y	U	U	08-1841	CALA-08-13909	ARSL
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.684	—	—	0.067	µg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.659	—	—	0.067	µg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.784	—	—	0.05	µg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.81	—	—	0.05	µg/L	Y	*	NQ	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.72	—	—	0.05	µg/L	Y	—	J	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.448	0.0356	0.0624	—	pCi/L	Y	—	NQ	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.567	0.055	0.052	—	pCi/L	Y	—	NQ	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.591	0.057	0.096	—	pCi/L	Y	—	NQ	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/03/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.57	0.049	0.075	—	pCi/L	Y	—	NQ	08-1832	CALA-08-13909	GELC
R-8 S2	821	01/15/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.539	0.047	0.078	—	pCi/L	Y	—	NQ	08-528	CALA-08-9940	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0228	0.0107	0.0264	—	pCi/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.015	0.008	0.033	—	pCi/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0247	0.011	0.047	—	pCi/L	Y	U	U	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/03/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0189	0.0082	0.04	—	pCi/L	Y	U	U	08-1832	CALA-08-13909	GELC
R-8 S2	821	01/15/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0136	0.0082	0.039	—	pCi/L	Y	U	U	08-528	CALA-08-9940	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.192	0.0223	0.0311	—	pCi/L	Y	—	NQ	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.235	0.03	0.035	—	pCi/L	Y	—	NQ	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.238	0.03	0.047	—	pCi/L	Y	—	NQ	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/03/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.238	0.028	0.039	—	pCi/L	Y	—	NQ	08-1832	CALA-08-13909	GELC
R-8 S2	821	01/15/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.259	0.029	0.046	—	pCi/L	Y	—	NQ	08-528	CALA-08-9940	GELC

Table C-2 TA-21 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-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	10.5	—	—	1	µg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.6	—	—	1	µg/L	Y	—	J	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	10.8	—	—	1	µg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	11	—	—	1	µg/L	Y	—	NQ	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	9.4	—	—	1	µg/L	Y	—	NQ	08-528	CALA-08-9941	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.49	—	—	3.3	µg/L	Y	J	J	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	6.96	—	—	3.3	µg/L	Y	J	J	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	2.8	—	—	2	µg/L	Y	J	J	08-1847	CALA-08-13908	GELC
R-8 S2	821	01/15/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3	—	—	2	µg/L	Y	J	J	08-528	CALA-08-9941	GELC
R-9	683	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.14	—	—	0.01	SU	Y	H	NQ	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.11	—	—	0.01	SU	Y	H	J-	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.18	—	—	0.01	SU	Y	H	J-	09-2615	CALA-09-11166	GELC
R-9	683	07/13/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.15	—	—	0.01	SU	Y	H	J-	09-2615	CALA-09-11169	GELC
R-9	683	01/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.07	—	—	0.01	SU	Y	H	J-	09-593	CALA-09-1765	GELC
R-9	683	08/26/08	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.13	—	—	0.01	SU	Y	H	J-	08-1782	CALA-08-13915	GELC
R-9	683	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.1	—	—	0.01	SU	Y	H	J-	08-1782	CALA-08-13911	GELC
R-9	683	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	112	—	—	0.725	mg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	106	—	—	0.73	mg/L	Y	—	NQ	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	111	—	—	0.73	mg/L	Y	—	NQ	09-2615	CALA-09-11166	GELC
R-9	683	07/13/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	111	—	—	0.73	mg/L	Y	—	NQ	09-2615	CALA-09-11169	GELC
R-9	683	01/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	110	—	—	0.73	mg/L	Y	—	NQ	09-593	CALA-09-1765	GELC
R-9	683	08/26/08	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	111	—	—	0.73	mg/L	Y	—	NQ	08-1782	CALA-08-13915	GELC
R-9	683	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	112	—	—	0.73	mg/L	Y	—	NQ	08-1782	CALA-08-13911	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00754	0.00462	0.0261	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	03/07/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0048	0.0037	0.026	—	pCi/L	Y	U	U	11-1545	CALA-11-5176	GELC
R-9	683	07/13/09	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00458	0.01	0.043	—	pCi/L	Y	U	U	09-2616	CALA-09-11168	GELC
R-9	683	07/13/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00733	0.0095	0.035	—	pCi/L	Y	U	U	09-2616	CALA-09-11165	GELC
R-9	683	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00133	0.0042	0.025	—	pCi/L	Y	U	U	08-1783	CALA-08-13913	GELC
R-9	683	08/26/08	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.021	0.0077	0.029	—	pCi/L	Y	U	U	08-1783	CALA-08-13914	GELC
R-9	683	07/19/07	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00817	0.00615	0.0309	—	pCi/L	Y	U	U	190028	GU070700G09R01	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	171	—	—	1	µg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	187	—	—	1	µg/L	Y	—	NQ	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	192	—	—	1	µg/L	Y	—	NQ	09-2615	CALA-09-11169	GELC
R-9	683	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	186	—	—	1	µg/L	Y	—	NQ	09-2615	CALA-09-11166	GELC
R-9	683	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	188	—	—	1	µg/L	Y	—	NQ	08-1782	CALA-08-13915	GELC
R-9	683	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	186	—	—	1	µg/L	Y	—	NQ	08-1782	CALA-08-13911	GELC
R-9	683	01/10/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	180	—	—	1	µg/L	Y	—	NQ	08-476	CALA-08-9876	GELC
R-9	683	01/10/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	179	—	—	1	µg/L	Y	—	NQ	08-476	CALA-08-9878	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	46.1	—	—	15	µg/L	Y	J	J	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	49.5	—	—	15	µg/L	Y	J	J	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	50.2	—	—	15	µg/L	Y	—	NQ	09-2615	CALA-09-11169	GELC
R-9	683	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	47.9	—	—	15	µg/L	Y	J	J	09-2615	CALA-09-11166	GELC
R-9	683	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	44.7	—	—	10	µg/L	Y	J	J	08-1782	CALA-08-13911	GELC
R-9	683	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	43.7	—	—	10	µg/L	Y	J	J	08-1782	CALA-08-13915	GELC
R-9	683	01/10/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	46.2	—	—	10	µg/L	Y	J	J	08-476	CALA-08-9876	GELC
R-9	683	01/10/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	46	—	—	10	µg/L	Y	J	J	08-476	CALA-08-9878	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	22.9	—	—	0.05	mg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	23.3	—	—	0.05	mg/L	Y	—	NQ	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	22.2	—	—	0.05	mg/L	Y	—	NQ	09-2615	CALA-09-11169	GELC
R-9	683	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.7	—	—	0.05	mg/L	Y	—	NQ	09-2615	CALA-09-11166	GELC

Table C-2 TA-21 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-9	683	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	22.7	—	—	0.03	mg/L	Y	—	NQ	08-1782	CALA-08-13915	GELC
R-9	683	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	22.3	—	—	0.03	mg/L	Y	—	NQ	08-1782	CALA-08-13911	GELC
R-9	683	01/10/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.8	—	—	0.03	mg/L	Y	—	NQ	08-476	CALA-08-9878	GELC
R-9	683	01/10/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	22.3	—	—	0.03	mg/L	Y	—	NQ	08-476	CALA-08-9876	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.32	1.8	6.94	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	03/07/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.323	1.3	4.4	—	pCi/L	Y	U	U	11-1545	CALA-11-5176	GELC
R-9	683	07/13/09	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.144	1.6	5	—	pCi/L	Y	U	U	09-2616	CALA-09-11168	GELC
R-9	683	07/13/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.23	1.6	5.2	—	pCi/L	Y	U	U	09-2616	CALA-09-11165	GELC
R-9	683	08/26/08	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.455	1.3	4.3	—	pCi/L	Y	U	U	08-1783	CALA-08-13914	GELC
R-9	683	08/26/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.83	1.2	4.2	—	pCi/L	Y	U	U	08-1783	CALA-08-13913	GELC
R-9	683	07/19/07	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.94	1.34	4.78	—	pCi/L	Y	U	U	190028	GU070700G09R01	GELC
R-9	683	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.28	—	—	0.067	mg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.3	—	—	0.066	mg/L	Y	—	NQ	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.02	—	—	0.066	mg/L	Y	—	NQ	09-2615	CALA-09-11166	GELC
R-9	683	07/13/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	5.95	—	—	0.066	mg/L	Y	—	NQ	09-2615	CALA-09-11169	GELC
R-9	683	01/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.04	—	—	0.066	mg/L	Y	—	NQ	09-593	CALA-09-1765	GELC
R-9	683	08/26/08	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	5.81	—	—	0.066	mg/L	Y	—	NQ	08-1782	CALA-08-13915	GELC
R-9	683	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	5.85	—	—	0.066	mg/L	Y	—	NQ	08-1782	CALA-08-13911	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.66	—	—	2	µg/L	Y	J	J	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.37	—	—	2	µg/L	Y	J	J	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.8	—	—	2.5	µg/L	Y	J	J	09-2615	CALA-09-11169	GELC
R-9	683	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.06	—	—	2.5	µg/L	Y	J	J	09-2615	CALA-09-11166	GELC
R-9	683	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.7	—	—	1.5	µg/L	Y	—	NQ	08-1782	CALA-08-13915	GELC
R-9	683	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.8	—	—	1.5	µg/L	Y	—	NQ	08-1782	CALA-08-13911	GELC
R-9	683	01/10/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2.5	µg/L	Y	U	U	08-476	CALA-08-9878	GELC
R-9	683	01/10/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.8	—	—	2.5	µg/L	Y	J	J	08-476	CALA-08-9876	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.47	1.6	6.51	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	03/07/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.76	1.1	4	—	pCi/L	Y	U	U	11-1545	CALA-11-5176	GELC
R-9	683	07/13/09	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-3.09	1.3	3.2	—	pCi/L	Y	U	U	09-2616	CALA-09-11168	GELC
R-9	683	07/13/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.706	1.1	4	—	pCi/L	Y	U	U	09-2616	CALA-09-11165	GELC
R-9	683	08/26/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.27	1.2	4.6	—	pCi/L	Y	U	U	08-1783	CALA-08-13913	GELC
R-9	683	08/26/08	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.627	1.2	4.2	—	pCi/L	Y	U	U	08-1783	CALA-08-13914	GELC
R-9	683	07/19/07	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.76	1.8	4.65	—	pCi/L	Y	U	U	190028	GU070700G09R01	GELC
R-9	683	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.27	—	—	0.033	mg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.304	—	—	0.033	mg/L	Y	—	NQ	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.349	—	—	0.033	mg/L	Y	—	NQ	09-2615	CALA-09-11169	GELC
R-9	683	07/13/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.328	—	—	0.033	mg/L	Y	—	NQ	09-2615	CALA-09-11166	GELC
R-9	683	01/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.331	—	—	0.033	mg/L	Y	—	NQ	09-593	CALA-09-1765	GELC
R-9	683	08/26/08	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.334	—	—	0.033	mg/L	Y	—	NQ	08-1782	CALA-08-13915	GELC
R-9	683	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.315	—	—	0.033	mg/L	Y	—	NQ	08-1782	CALA-08-13911	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.29	0.667	1.83	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	03/07/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.12	0.97	2.6	—	pCi/L	Y	U	U	11-1545	CALA-11-5176	GELC
R-9	683	07/13/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.96	0.95	2.7	—	pCi/L	Y	U	U	09-2616	CALA-09-11165	GELC
R-9	683	07/13/09	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	1.23	0.82	2.7	—	pCi/L	Y	U	U	09-2616	CALA-09-11168	GELC
R-9	683	07/19/07	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.4	0.836	2.58	—	pCi/L	Y	U	U	190028	GU070700G09R01	GELC
R-9	683	07/31/06	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	1.57	0.631	2.07	—	pCi/L	Y	U	U	168378	GU060700G09R90	GELC
R-9	683	07/31/06	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.631	0.466	1.83	—	pCi/L	Y	U	U	168378	GU060700G09R01	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.25	0.794	2.51	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	03/07/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.96	1	2.6	—	pCi/L	Y	—	NQ	11-1545	CALA-11-5176	GELC
R-9	683	07/13/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.56	1.4	4	—	pCi/L	Y	—	NQ	09-2616	CALA-09-11165	GELC
R-9	683	07/13/09	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	4.05	0.58	1.4	—	pCi/L	Y	—	NQ	09-2616	CALA-09-11168	GELC

Table C-2 TA-21 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-9	683	07/19/07	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.5	0.888	2.51	—	pCi/L	Y	—	J	190028	GU070700G09R01	GELC
R-9	683	07/31/06	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	2.82	0.712	2.49	—	pCi/L	Y	—	J	168378	GU060700G09R90	GELC
R-9	683	07/31/06	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.1	0.735	2.53	—	pCi/L	Y	—	J	168378	GU060700G09R01	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	85.3	—	—	0.453	mg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	86.6	—	—	0.45	mg/L	Y	—	NQ	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	84.8	—	—	0.35	mg/L	Y	—	NQ	09-2615	CALA-09-11169	GELC
R-9	683	07/13/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	82.4	—	—	0.35	mg/L	Y	—	NQ	09-2615	CALA-09-11166	GELC
R-9	683	08/26/08	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	86.5	—	—	0.35	mg/L	Y	—	NQ	08-1782	CALA-08-13915	GELC
R-9	683	08/26/08	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	83.9	—	—	0.35	mg/L	Y	—	NQ	08-1782	CALA-08-13911	GELC
R-9	683	01/10/08	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	82.2	—	—	0.43	mg/L	Y	—	NQ	08-476	CALA-08-9876	GELC
R-9	683	01/10/08	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	80.5	—	—	0.43	mg/L	Y	—	NQ	08-476	CALA-08-9878	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.82	—	—	0.11	mg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.91	—	—	0.11	mg/L	Y	—	NQ	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.1	—	—	0.085	mg/L	Y	—	NQ	09-2615	CALA-09-11169	GELC
R-9	683	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.87	—	—	0.085	mg/L	Y	—	NQ	09-2615	CALA-09-11166	GELC
R-9	683	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.86	—	—	0.085	mg/L	Y	—	NQ	08-1782	CALA-08-13911	GELC
R-9	683	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.25	—	—	0.085	mg/L	Y	—	NQ	08-1782	CALA-08-13915	GELC
R-9	683	01/10/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.32	—	—	0.085	mg/L	Y	—	NQ	08-476	CALA-08-9878	GELC
R-9	683	01/10/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.42	—	—	0.085	mg/L	Y	—	NQ	08-476	CALA-08-9876	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.24	—	—	0.165	µg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.3	—	—	0.17	µg/L	Y	—	NQ	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.41	—	—	0.1	µg/L	Y	—	NQ	09-2615	CALA-09-11166	GELC
R-9	683	07/13/09	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.44	—	—	0.1	µg/L	Y	—	NQ	09-2615	CALA-09-11169	GELC
R-9	683	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.1	—	—	0.1	µg/L	Y	—	U	08-1782	CALA-08-13915	GELC
R-9	683	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.4	—	—	0.1	µg/L	Y	—	U	08-1782	CALA-08-13911	GELC
R-9	683	01/10/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Molybdenum	Mo	N	10	—	—	2	µg/L	Y	U	U	08-476	CALA-08-9876	GELC
R-9	683	01/10/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Molybdenum	Mo	N	10	—	—	2	µg/L	Y	U	U	08-476	CALA-08-9878	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.526	3.04	10.7	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	03/07/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.59	2.5	7.8	—	pCi/L	Y	U	U	11-1545	CALA-11-5176	GELC
R-9	683	07/13/09	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	19.5	12	40	—	pCi/L	Y	U	U	09-2616	CALA-09-11168	GELC
R-9	683	07/13/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.58	11	36	—	pCi/L	Y	U	U	09-2616	CALA-09-11165	GELC
R-9	683	08/26/08	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.74	11	34	—	pCi/L	Y	U	U	08-1783	CALA-08-13914	GELC
R-9	683	08/26/08	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-24.2	11	33	—	pCi/L	Y	U	U	08-1783	CALA-08-13913	GELC
R-9	683	07/19/07	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	17.8	11.1	31.8	—	pCi/L	Y	U	U	190028	GU070700G09R01	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.69	—	—	0.5	µg/L	Y	J	J	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.891	—	—	0.5	µg/L	Y	J	J	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	µg/L	Y	U	U	09-2615	CALA-09-11169	GELC
R-9	683	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	µg/L	Y	U	U	09-2615	CALA-09-11166	GELC
R-9	683	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	µg/L	Y	U	U	08-1782	CALA-08-13915	GELC
R-9	683	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	µg/L	Y	U	U	08-1782	CALA-08-13911	GELC
R-9	683	01/10/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.77	—	—	0.5	µg/L	Y	J	J	08-476	CALA-08-9876	GELC
R-9	683	01/10/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.57	—	—	0.5	µg/L	Y	J	J	08-476	CALA-08-9878	GELC
R-9	683	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.899	—	—	0.017	mg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.805	—	—	0.05	mg/L	Y	—	NQ	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.715	—	—	0.05	mg/L	Y	—	NQ	09-2615	CALA-09-11169	GELC
R-9	683	07/13/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.705	—	—	0.05	mg/L	Y	—	NQ	09-2615	CALA-09-11166	GELC
R-9	683	01/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.645	—	—	0.05	mg/L	Y	—	NQ	09-593	CALA-09-1765	GELC
R-9	683	08/26/08	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.835	—	—	0.05	mg/L	Y	—	J	08-1782	CALA-08-13915	GELC
R-9	683	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.243	—	—	0.01	mg/L	Y	—	J	08-1782	CALA-08-13911	GELC
R-9	683	09/06/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.16	—	—	0.1	µg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.25	—	—	0.1	µg/L	Y	—	NQ	11-1545	CALA-11-5175	GELC

Table C-2 TA-21 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-9	683	07/13/09	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.08	—	—	0.1	µg/L	Y	—	NQ	09-2615	CALA-09-11169	GELC
R-9	683	07/13/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.03	—	—	0.1	µg/L	Y	—	NQ	09-2615	CALA-09-11166	GELC
R-9	683	01/08/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.953	—	—	0.05	µg/L	Y	—	NQ	09-593	CALA-09-1765	GELC
R-9	683	08/26/08	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.955	—	—	0.1	µg/L	Y	—	NQ	08-1782	CALA-08-13915	GELC
R-9	683	08/26/08	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.926	—	—	0.1	µg/L	Y	—	NQ	08-1782	CALA-08-13911	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00406	0.0289	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	03/07/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00187	0.0032	0.023	—	pCi/L	Y	U	U	11-1545	CALA-11-5176	GELC
R-9	683	07/13/09	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0138	0.0086	0.037	—	pCi/L	Y	U	U	09-2616	CALA-09-11168	GELC
R-9	683	07/13/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00597	0.004	0.032	—	pCi/L	Y	U	U	09-2616	CALA-09-11165	GELC
R-9	683	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00347	0.0078	0.024	—	pCi/L	Y	U	U	08-1783	CALA-08-13913	GELC
R-9	683	08/26/08	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00897	0.0093	0.025	—	pCi/L	Y	U	U	08-1783	CALA-08-13914	GELC
R-9	683	07/19/07	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00609	0.0061	0.0284	—	pCi/L	Y	U	U	190028	GU070700G09R01	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00287	0.00641	0.0339	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	03/07/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00187	0.0049	0.035	—	pCi/L	Y	U	U	11-1545	CALA-11-5176	GELC
R-9	683	07/13/09	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00689	0.0061	0.045	—	pCi/L	Y	U	U	09-2616	CALA-09-11168	GELC
R-9	683	07/13/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00199	0.006	0.039	—	pCi/L	Y	U	U	09-2616	CALA-09-11165	GELC
R-9	683	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-8.3E-10	0.0049	0.03	—	pCi/L	Y	U	U	08-1783	CALA-08-13913	GELC
R-9	683	08/26/08	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00538	0.004	0.031	—	pCi/L	Y	U	U	08-1783	CALA-08-13914	GELC
R-9	683	07/19/07	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00203	0.00203	0.0315	—	pCi/L	Y	U	U	190028	GU070700G09R01	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.62	—	—	0.05	mg/L	Y	E	NQ	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.01	—	—	0.05	mg/L	Y	—	NQ	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	3.49	—	—	0.05	mg/L	Y	—	NQ	09-2615	CALA-09-11169	GELC
R-9	683	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.36	—	—	0.05	mg/L	Y	—	NQ	09-2615	CALA-09-11166	GELC
R-9	683	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	3.91	—	—	0.05	mg/L	Y	—	NQ	08-1782	CALA-08-13915	GELC
R-9	683	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.78	—	—	0.05	mg/L	Y	—	NQ	08-1782	CALA-08-13911	GELC
R-9	683	01/10/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.43	—	—	0.05	mg/L	Y	E	NQ	08-476	CALA-08-9876	GELC
R-9	683	01/10/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	3.52	—	—	0.05	mg/L	Y	E	NQ	08-476	CALA-08-9878	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	24.1	29.3	73.1	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	03/07/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-34.1	17	51	—	pCi/L	Y	U	U	11-1545	CALA-11-5176	GELC
R-9	683	07/13/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	5.38	17	55	—	pCi/L	Y	U	U	09-2616	CALA-09-11165	GELC
R-9	683	07/13/09	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	15.9	15	53	—	pCi/L	Y	U	U	09-2616	CALA-09-11168	GELC
R-9	683	08/26/08	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	33.2	14	52	—	pCi/L	Y	U	U	08-1783	CALA-08-13914	GELC
R-9	683	08/26/08	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-29.7	18	61	—	pCi/L	Y	U	U	08-1783	CALA-08-13913	GELC
R-9	683	07/19/07	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-16	20.4	63.8	—	pCi/L	Y	U	U	190028	GU070700G09R01	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	76.1	—	—	0.053	mg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	77	—	—	0.053	mg/L	Y	—	NQ	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	75.1	—	—	0.053	mg/L	Y	—	NQ	09-2615	CALA-09-11166	GELC
R-9	683	07/13/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	77.2	—	—	0.053	mg/L	Y	—	NQ	09-2615	CALA-09-11169	GELC
R-9	683	01/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	76.3	—	—	0.032	mg/L	Y	—	NQ	09-593	CALA-09-1765	GELC
R-9	683	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	73.9	—	—	0.032	mg/L	Y	—	NQ	08-1782	CALA-08-13915	GELC
R-9	683	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	74.2	—	—	0.032	mg/L	Y	—	NQ	08-1782	CALA-08-13911	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	17.5	—	—	0.1	mg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	18.5	—	—	0.1	mg/L	Y	—	NQ	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	17.8	—	—	0.1	mg/L	Y	—	NQ	09-2615	CALA-09-11169	GELC
R-9	683	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	16.7	—	—	0.1	mg/L	Y	—	NQ	09-2615	CALA-09-11166	GELC
R-9	683	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	16	—	—	0.045	mg/L	Y	N	J-	08-1782	CALA-08-13915	GELC
R-9	683	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.8	—	—	0.045	mg/L	Y	N	J-	08-1782	CALA-08-13911	GELC
R-9	683	01/10/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	17	—	—	0.045	mg/L	Y	—	NQ	08-476	CALA-08-9876	GELC
R-9	683	01/10/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	16.9	—	—	0.045	mg/L	Y	—	NQ	08-476	CALA-08-9878	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.65	1.72	5.91	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	03/07/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.904	1.3	3.9	—	pCi/L	Y	U	U	11-1545	CALA-11-5176	GELC

Table C-2 TA-21 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-9	683	07/13/09	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.15	1.6	5	—	pCi/L	Y	U	U	09-2616	CALA-09-11168	GELC
R-9	683	07/13/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.326	1.3	4.3	—	pCi/L	Y	U	U	09-2616	CALA-09-11165	GELC
R-9	683	08/26/08	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.149	1.3	4.5	—	pCi/L	Y	U	U	08-1783	CALA-08-13913	GELC
R-9	683	08/26/08	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	1.72	1.2	4.6	—	pCi/L	Y	U	U	08-1783	CALA-08-13914	GELC
R-9	683	07/19/07	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.462	1.17	4	—	pCi/L	Y	U	U	190028	GU070700G09R01	GELC
R-9	683	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	250	—	—	1	µS/cm	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	247	—	—	1	µS/cm	Y	—	NQ	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	250	—	—	1	µS/cm	Y	—	NQ	09-2615	CALA-09-11166	GELC
R-9	683	07/13/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	249	—	—	1	µS/cm	Y	—	NQ	09-2615	CALA-09-11169	GELC
R-9	683	01/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	249	—	—	1	µS/cm	Y	—	NQ	09-593	CALA-09-1765	GELC
R-9	683	08/26/08	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	246	—	—	1	µS/cm	Y	—	NQ	08-1782	CALA-08-13915	GELC
R-9	683	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	248	—	—	1	µS/cm	Y	—	NQ	08-1782	CALA-08-13911	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	177	—	—	1	µg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	185	—	—	1	µg/L	Y	—	NQ	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	186	—	—	1	µg/L	Y	—	NQ	09-2615	CALA-09-11169	GELC
R-9	683	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	176	—	—	1	µg/L	Y	—	NQ	09-2615	CALA-09-11166	GELC
R-9	683	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	169	—	—	1	µg/L	Y	—	NQ	08-1782	CALA-08-13915	GELC
R-9	683	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	168	—	—	1	µg/L	Y	—	NQ	08-1782	CALA-08-13911	GELC
R-9	683	01/10/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	168	—	—	1	µg/L	Y	—	NQ	08-476	CALA-08-9876	GELC
R-9	683	01/10/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	168	—	—	1	µg/L	Y	—	NQ	08-476	CALA-08-9878	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.112	0.125	0.429	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	03/07/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.221	0.15	0.53	—	pCi/L	Y	U	U	11-1545	CALA-11-5176	GELC
R-9	683	07/13/09	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.11	0.12	0.4	—	pCi/L	Y	U	U	09-2616	CALA-09-11168	GELC
R-9	683	07/13/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0816	0.097	0.35	—	pCi/L	Y	U	U	09-2616	CALA-09-11165	GELC
R-9	683	08/26/08	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0347	0.13	0.48	—	pCi/L	Y	U	U	08-1783	CALA-08-13914	GELC
R-9	683	08/26/08	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0333	0.096	0.35	—	pCi/L	Y	U	U	08-1783	CALA-08-13913	GELC
R-9	683	07/19/07	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.229	0.0921	0.405	—	pCi/L	Y	U	U	190028	GU070700G09R01	GELC
R-9	683	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	6.24	—	—	0.133	mg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	6.46	—	—	0.1	mg/L	Y	—	NQ	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.83	—	—	0.1	mg/L	Y	—	NQ	09-2615	CALA-09-11169	GELC
R-9	683	07/13/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.92	—	—	0.1	mg/L	Y	—	NQ	09-2615	CALA-09-11166	GELC
R-9	683	01/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	6.07	—	—	0.1	mg/L	Y	—	NQ	09-593	CALA-09-1765	GELC
R-9	683	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.9	—	—	0.1	mg/L	Y	—	NQ	08-1782	CALA-08-13911	GELC
R-9	683	08/26/08	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.87	—	—	0.1	mg/L	Y	—	NQ	08-1782	CALA-08-13915	GELC
R-9	683	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	179	—	—	3.4	mg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	197	—	—	2.4	mg/L	Y	—	NQ	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	205	—	—	2.4	mg/L	Y	—	NQ	09-2615	CALA-09-11169	GELC
R-9	683	07/13/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	201	—	—	2.4	mg/L	Y	—	NQ	09-2615	CALA-09-11166	GELC
R-9	683	01/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	189	—	—	2.4	mg/L	Y	—	NQ	09-593	CALA-09-1765	GELC
R-9	683	08/26/08	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	203	—	—	2.4	mg/L	Y	—	NQ	08-1782	CALA-08-13915	GELC
R-9	683	08/26/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	204	—	—	2.4	mg/L	Y	—	NQ	08-1782	CALA-08-13911	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.523	—	—	0.33	mg/L	Y	J	J	12-1543	CALA-12-22897	GELC
R-9	683	03/07/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-1545	CALA-11-5176	GELC
R-9	683	07/13/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	09-2614	CALA-09-11165	GELC
R-9	683	07/13/09	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	09-2614	CALA-09-11168	GELC
R-9	683	01/08/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.814	—	—	0.33	mg/L	Y	J	J	09-593	CALA-09-1764	GELC
R-9	683	08/26/08	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	08-1781	CALA-08-13913	GELC
R-9	683	08/26/08	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	08-1781	CALA-08-13914	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	65.7	49	165	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	03/07/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	8.7584	1.5134	1.932	—	pCi/L	N	—	R	11-1582	CALA-11-5176	ARSL
R-9	683	03/07/11	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	8.533	1.4812	1.932	—	pCi/L	Y	—	NQ	11-1582	CALA-11-5176	ARSL

Table C-2 TA-21 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-9	683	07/13/09	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	8.2432	0.2898	0.2898	—	pCi/L	Y	—	NQ	09-2627	CALA-09-11168	UMTL
R-9	683	07/13/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	9.3058	0.322	0.2898	—	pCi/L	Y	—	NQ	09-2627	CALA-09-11165	UMTL
R-9	683	01/08/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	7.9534	0.2898	0.2898	—	pCi/L	Y	—	NQ	09-621	CALA-09-1764	UMTL
R-9	683	08/26/08	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	9.5956	0.322	0.2898	—	pCi/L	Y	—	NQ	08-1784	CALA-08-13914	UMTL
R-9	683	08/26/08	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	9.4668	0.322	0.2898	—	pCi/L	Y	—	NQ	08-1784	CALA-08-13913	UMTL
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.78	—	—	0.067	µg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.76	—	—	0.067	µg/L	Y	—	NQ	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	1.81	—	—	0.05	µg/L	Y	—	NQ	09-2615	CALA-09-11169	GELC
R-9	683	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.71	—	—	0.05	µg/L	Y	—	NQ	09-2615	CALA-09-11166	GELC
R-9	683	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	1.7	—	—	0.05	µg/L	Y	—	NQ	08-1782	CALA-08-13915	GELC
R-9	683	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2	—	—	0.05	µg/L	Y	—	NQ	08-1782	CALA-08-13911	GELC
R-9	683	01/10/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.5	—	—	0.05	µg/L	Y	—	NQ	08-476	CALA-08-9876	GELC
R-9	683	01/10/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	1.5	—	—	0.05	µg/L	Y	—	NQ	08-476	CALA-08-9878	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.08	0.0502	0.0599	—	pCi/L	Y	—	NQ	12-1543	CALA-12-22897	GELC
R-9	683	03/07/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.998	0.09	0.062	—	pCi/L	Y	—	NQ	11-1545	CALA-11-5176	GELC
R-9	683	07/13/09	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.13	0.097	0.1	—	pCi/L	Y	—	NQ	09-2616	CALA-09-11168	GELC
R-9	683	07/13/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.03	0.09	0.11	—	pCi/L	Y	—	NQ	09-2616	CALA-09-11165	GELC
R-9	683	08/26/08	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.13	0.081	0.068	—	pCi/L	Y	—	NQ	08-1783	CALA-08-13914	GELC
R-9	683	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.03	0.074	0.066	—	pCi/L	Y	—	NQ	08-1783	CALA-08-13913	GELC
R-9	683	07/19/07	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.11	0.0846	0.037	—	pCi/L	Y	—	—	190028	GU070700G09R01	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0246	0.0113	0.0254	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	03/07/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0286	0.013	0.04	—	pCi/L	Y	U	U	11-1545	CALA-11-5176	GELC
R-9	683	07/13/09	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0268	0.012	0.051	—	pCi/L	Y	U	U	09-2616	CALA-09-11168	GELC
R-9	683	07/13/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0344	0.011	0.052	—	pCi/L	Y	U	U	09-2616	CALA-09-11165	GELC
R-9	683	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0429	0.011	0.035	—	pCi/L	Y	—	NQ	08-1783	CALA-08-13913	GELC
R-9	683	08/26/08	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0319	0.011	0.036	—	pCi/L	Y	U	U	08-1783	CALA-08-13914	GELC
R-9	683	07/19/07	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0385	0.0122	0.0495	—	pCi/L	Y	U	U	190028	GU070700G09R01	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.493	0.0333	0.0298	—	pCi/L	Y	—	NQ	12-1543	CALA-12-22897	GELC
R-9	683	03/07/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.541	0.056	0.042	—	pCi/L	Y	—	NQ	11-1545	CALA-11-5176	GELC
R-9	683	07/13/09	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.593	0.058	0.051	—	pCi/L	Y	—	NQ	09-2616	CALA-09-11168	GELC
R-9	683	07/13/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.512	0.053	0.053	—	pCi/L	Y	—	NQ	09-2616	CALA-09-11165	GELC
R-9	683	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.602	0.049	0.035	—	pCi/L	Y	—	NQ	08-1783	CALA-08-13913	GELC
R-9	683	08/26/08	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.544	0.046	0.036	—	pCi/L	Y	—	NQ	08-1783	CALA-08-13914	GELC
R-9	683	07/19/07	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.488	0.0472	0.0493	—	pCi/L	Y	—	—	190028	GU070700G09R01	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	11.4	—	—	1	µg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.2	—	—	1	µg/L	Y	—	NQ	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	11.3	—	—	1	µg/L	Y	—	NQ	09-2615	CALA-09-11166	GELC
R-9	683	07/13/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	11.6	—	—	1	µg/L	Y	—	NQ	09-2615	CALA-09-11169	GELC
R-9	683	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	9.9	—	—	1	µg/L	Y	—	NQ	08-1782	CALA-08-13915	GELC
R-9	683	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	10.2	—	—	1	µg/L	Y	—	NQ	08-1782	CALA-08-13911	GELC
R-9	683	01/10/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	11.6	—	—	1	µg/L	Y	—	J	08-476	CALA-08-9876	GELC
R-9	683	01/10/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	11.5	—	—	1	µg/L	Y	—	J	08-476	CALA-08-9878	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.35	—	—	3.3	µg/L	Y	J	J	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	09-2615	CALA-09-11166	GELC
R-9	683	07/13/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	09-2615	CALA-09-11169	GELC
R-9	683	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	2	µg/L	Y	U	U	08-1782	CALA-08-13915	GELC
R-9	683	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	2	µg/L	Y	U	U	08-1782	CALA-08-13911	GELC
R-9	683	01/10/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	2	µg/L	Y	U	U	08-476	CALA-08-9878	GELC
R-9	683	01/10/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	2.1	—	—	2	µg/L	Y	J	J	08-476	CALA-08-9876	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.64	—	—	0.01	SU	Y	H	NQ	12-1543	CALA-12-22904	GELC

Table C-2 TA-21 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-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.69	—	—	0.01	SU	Y	H	J-	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.01	—	—	0.01	SU	Y	H	J-	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.59	—	—	0.01	SU	Y	H	J-	10-1193	CALA-10-9151	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.52	—	—	0.01	SU	Y	H	J-	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.6	—	—	0.725	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59	—	—	0.73	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62	—	—	0.73	mg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	65.9	—	—	0.73	mg/L	Y	—	NQ	10-1193	CALA-10-9151	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.9	—	—	0.73	mg/L	Y	—	NQ	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00805	0.00636	0.0278	—	pCi/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00578	0.0051	0.027	—	pCi/L	Y	U	U	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	9.82E-05	0.0017	0.035	—	pCi/L	Y	U	U	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00286	0.014	0.038	—	pCi/L	Y	U	U	09-2578	CALA-09-11139	GELC
R-9i S1	189.1	08/29/08	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00213	0.0032	0.025	—	pCi/L	Y	U	U	08-1818	CALA-08-13878	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	53.2	—	—	1	µg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	60.4	—	—	1	µg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	41.4	—	—	1	µg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	59.1	—	—	1	µg/L	Y	—	NQ	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	42.2	—	—	1	µg/L	Y	—	NQ	08-1818	CALA-08-13875	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	19.9	—	—	15	µg/L	Y	J	J	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	18.4	—	—	15	µg/L	Y	J	J	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	24.2	—	—	15	µg/L	Y	J	J	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	23.7	—	—	15	µg/L	Y	J	J	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	19.6	—	—	10	µg/L	Y	J	J	08-1818	CALA-08-13875	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.152	—	—	0.067	mg/L	Y	J	J	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.147	—	—	0.066	mg/L	Y	J	J	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.181	—	—	0.066	mg/L	Y	J	J	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.153	—	—	0.066	mg/L	Y	J	J	10-1193	CALA-10-9151	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.15	—	—	0.066	mg/L	Y	J	J	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.9	—	—	0.05	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	22.1	—	—	0.05	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.1	—	—	0.05	mg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.7	—	—	0.05	mg/L	Y	—	NQ	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.1	—	—	0.03	mg/L	Y	—	NQ	08-1818	CALA-08-13875	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.903	1.62	5.65	—	pCi/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.023	1.4	4.8	—	pCi/L	Y	U	U	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.45	0.93	2.8	—	pCi/L	Y	U	U	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	07/08/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.26	1.5	4.2	—	pCi/L	Y	U	U	09-2578	CALA-09-11139	GELC
R-9i S1	189.1	08/29/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.521	0.86	3	—	pCi/L	Y	U	U	08-1818	CALA-08-13878	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	40.5	—	—	0.335	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	39.6	—	—	0.66	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	42.2	—	—	0.33	mg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	N	34.8	—	—	0.66	mg/L	Y	—	U	10-1193	CALA-10-9151	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	39	—	—	0.33	mg/L	Y	—	NQ	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	Y	2.1	—	—	1	µg/L	Y	J	J	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	Y	1.45	—	—	1	µg/L	Y	J	J	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	N	5	—	—	1	µg/L	Y	U	U	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	Y	1.85	—	—	1	µg/L	Y	J	J	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	Y	1.7	—	—	1	µg/L	Y	J	J	08-1818	CALA-08-13875	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.54	1.81	7.68	—	pCi/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.126	1.4	4.7	—	pCi/L	Y	U	U	11-1696	CALA-11-5106	GELC

Table C-2 TA-21 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-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.261	1	3.4	—	pCi/L	Y	U	U	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	07/08/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.3	1.4	5.2	—	pCi/L	Y	U	U	09-2578	CALA-09-11139	GELC
R-9i S1	189.1	08/29/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.188	0.87	3	—	pCi/L	Y	U	U	08-1818	CALA-08-13878	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.331	—	—	0.033	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.325	—	—	0.033	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.331	—	—	0.033	mg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.447	—	—	0.033	mg/L	Y	—	NQ	10-1193	CALA-10-9151	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.437	—	—	0.033	mg/L	Y	—	NQ	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.46	0.739	2.07	—	pCi/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.0579	0.62	2.9	—	pCi/L	Y	U	U	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.57	1.1	2.8	—	pCi/L	Y	U	U	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	07/08/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	4.94	1	1.9	—	pCi/L	Y	—	NQ	09-2578	CALA-09-11139	GELC
R-9i S1	189.1	04/29/05	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.63	0.551	1.9	—	pCi/L	Y	U	U	135661	GU0504G9iR101	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.24	0.868	2.55	—	pCi/L	Y	—	NQ	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.74	1.1	2.5	—	pCi/L	Y	—	NQ	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.25	0.69	2.2	—	pCi/L	Y	U	U	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	07/08/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.98	1.1	2.8	—	pCi/L	Y	—	NQ	09-2578	CALA-09-11139	GELC
R-9i S1	189.1	04/29/05	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.53	0.759	2.35	—	pCi/L	Y	—	J	135661	GU0504G9iR101	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	87	—	—	0.453	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	86.8	—	—	0.45	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	83.2	—	—	0.35	mg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	86.4	—	—	0.35	mg/L	Y	—	NQ	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	08/29/08	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	74.5	—	—	0.35	mg/L	Y	—	NQ	08-1818	CALA-08-13875	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	84.7	—	—	30	µg/L	Y	J	J	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	142	—	—	30	µg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	368	—	—	30	µg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	µg/L	Y	U	U	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	262	—	—	25	µg/L	Y	—	NQ	08-1818	CALA-08-13875	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.85	—	—	0.11	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.66	—	—	0.11	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.41	—	—	0.085	mg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.81	—	—	0.085	mg/L	Y	—	J	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.53	—	—	0.085	mg/L	Y	—	NQ	08-1818	CALA-08-13875	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	215	—	—	2	µg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	160	—	—	2	µg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	41	—	—	2	µg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	244	—	—	2	µg/L	Y	—	NQ	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	81.2	—	—	2	µg/L	Y	—	NQ	08-1818	CALA-08-13875	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	8.56	—	—	0.165	µg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	11	—	—	0.17	µg/L	Y	—	J	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	11	—	—	0.1	µg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	13.6	—	—	0.1	µg/L	Y	—	NQ	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	14.3	—	—	0.1	µg/L	Y	—	NQ	08-1818	CALA-08-13875	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-6.76	2.65	8.46	—	pCi/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.13	3.2	11	—	pCi/L	Y	U	U	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.29	2	6.8	—	pCi/L	Y	U	U	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	07/08/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-17	10	32	—	pCi/L	Y	U	U	09-2578	CALA-09-11139	GELC
R-9i S1	189.1	08/29/08	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.43	8.6	24	—	pCi/L	Y	U	U	08-1818	CALA-08-13878	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	93.8	—	—	0.5	µg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	117	—	—	0.5	µg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	123	—	—	2.5	µg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC

Table C-2 TA-21 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-9i S1	189.1	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	91.8	—	—	0.5	µg/L	Y	—	NQ	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	139	—	—	0.5	µg/L	Y	—	NQ	08-1818	CALA-08-13875	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0207	—	—	0.017	mg/L	Y	J	J	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.25	—	—	0.05	mg/L	Y	U	U	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.096	—	—	0.05	mg/L	Y	J	J	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.25	—	—	0.05	mg/L	Y	U	U	10-1193	CALA-10-9151	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.05	—	—	0.01	mg/L	Y	U	U	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00355	0.0253	—	pCi/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00547	0.0032	0.023	—	pCi/L	Y	U	U	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00196	0.0034	0.017	—	pCi/L	Y	U	U	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0191	0.0087	0.034	—	pCi/L	Y	U	U	09-2578	CALA-09-11139	GELC
R-9i S1	189.1	08/29/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00235	0.0033	0.033	—	pCi/L	Y	U	U	08-1818	CALA-08-13878	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00251	0.00561	0.0297	—	pCi/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00182	0.0041	0.034	—	pCi/L	Y	U	U	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00196	0.0052	0.029	—	pCi/L	Y	U	U	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00212	0.0087	0.042	—	pCi/L	Y	U	U	09-2578	CALA-09-11139	GELC
R-9i S1	189.1	08/29/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00235	0.0041	0.04	—	pCi/L	Y	U	U	08-1818	CALA-08-13878	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.45	—	—	0.05	mg/L	Y	E	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.48	—	—	0.05	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.53	—	—	0.05	mg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.67	—	—	0.05	mg/L	Y	—	NQ	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.05	—	—	0.05	mg/L	Y	E	NQ	08-1818	CALA-08-13875	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	60.5	21.7	99.1	—	pCi/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	3.85	24	73	—	pCi/L	Y	U	U	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	3.7	15	52	—	pCi/L	Y	U	U	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	07/08/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	16.4	18	61	—	pCi/L	Y	U	U	09-2578	CALA-09-11139	GELC
R-9i S1	189.1	08/29/08	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	7.47	17	39	—	pCi/L	Y	U	U	08-1818	CALA-08-13878	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	32.2	—	—	0.053	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	31.3	—	—	0.053	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	30.9	—	—	0.053	mg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	33.8	—	—	0.053	mg/L	Y	—	NQ	10-1193	CALA-10-9151	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	34.9	—	—	0.053	mg/L	Y	—	NQ	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	22.1	—	—	0.1	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	22.3	—	—	0.1	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	24.8	—	—	0.1	mg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	22.9	—	—	0.1	mg/L	Y	—	NQ	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	21.7	—	—	0.045	mg/L	Y	—	NQ	08-1818	CALA-08-13875	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.81	1.98	6.74	—	pCi/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.0468	1.5	4.9	—	pCi/L	Y	U	U	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.869	0.97	3	—	pCi/L	Y	U	U	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	07/08/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.911	1.5	4.2	—	pCi/L	Y	U	U	09-2578	CALA-09-11139	GELC
R-9i S1	189.1	08/29/08	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.51	1.1	3.1	—	pCi/L	Y	U	U	08-1818	CALA-08-13878	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	310	—	—	1	µS/cm	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	301	—	—	1	µS/cm	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	308	—	—	1	µS/cm	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	274	—	—	1	µS/cm	Y	—	NQ	10-1193	CALA-10-9151	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	285	—	—	1	µS/cm	Y	—	NQ	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	133	—	—	1	µg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	130	—	—	1	µg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	126	—	—	1	µg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	128	—	—	1	µg/L	Y	—	NQ	09-2577	CALA-09-11142	GELC

Table C-2 TA-21 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-9i S1	189.1	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	110	—	—	1	µg/L	Y	—	NQ	08-1818	CALA-08-13875	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.014	0.119	0.43	—	pCi/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.275	0.15	0.49	—	pCi/L	Y	U	U	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0254	0.14	0.49	—	pCi/L	Y	U	U	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	07/08/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.182	0.11	0.35	—	pCi/L	Y	U	U	09-2578	CALA-09-11139	GELC
R-9i S1	189.1	08/29/08	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.284	0.1	0.43	—	pCi/L	Y	U	U	08-1818	CALA-08-13878	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	13.5	—	—	0.133	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	13	—	—	0.1	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	12.8	—	—	0.1	mg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	12.2	—	—	0.1	mg/L	Y	—	NQ	10-1193	CALA-10-9151	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	13	—	—	0.1	mg/L	Y	—	NQ	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	177	—	—	3.4	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	182	—	—	2.4	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	189	—	—	2.4	mg/L	Y	—	J	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	183	—	—	2.4	mg/L	Y	—	NQ	10-1193	CALA-10-9151	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	190	—	—	2.4	mg/L	Y	—	NQ	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.26	—	—	0.33	mg/L	Y	—	NQ	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.05	—	—	0.33	mg/L	Y	—	NQ	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.67	—	—	0.33	mg/L	Y	—	NQ	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	01/08/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.43	—	—	0.33	mg/L	Y	—	NQ	10-1192	CALA-10-9149	GELC
R-9i S1	189.1	07/08/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.92	—	—	0.33	mg/L	Y	—	NQ	09-2576	CALA-09-11139	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.955	—	—	0.067	µg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.07	—	—	0.067	µg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.37	—	—	0.05	µg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.748	—	—	0.05	µg/L	Y	—	NQ	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.1	—	—	0.05	µg/L	Y	—	NQ	08-1818	CALA-08-13875	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.366	0.0301	0.0597	—	pCi/L	Y	—	NQ	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.452	0.045	0.046	—	pCi/L	Y	—	NQ	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.584	0.05	0.044	—	pCi/L	Y	—	NQ	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.353	0.04	0.11	—	pCi/L	Y	—	NQ	09-2578	CALA-09-11139	GELC
R-9i S1	189.1	08/29/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.525	0.059	0.14	—	pCi/L	Y	—	NQ	08-1818	CALA-08-13878	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0245	0.00983	0.0253	—	pCi/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0134	0.0081	0.03	—	pCi/L	Y	U	U	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0322	0.0086	0.021	—	pCi/L	Y	—	NQ	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00688	0.0084	0.052	—	pCi/L	Y	U	U	09-2578	CALA-09-11139	GELC
R-9i S1	189.1	08/29/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0208	0.013	0.077	—	pCi/L	Y	U	U	08-1818	CALA-08-13878	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.313	0.0268	0.0297	—	pCi/L	Y	—	NQ	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.341	0.036	0.031	—	pCi/L	Y	—	NQ	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.394	0.037	0.027	—	pCi/L	Y	—	NQ	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.273	0.034	0.053	—	pCi/L	Y	—	NQ	09-2578	CALA-09-11139	GELC
R-9i S1	189.1	08/29/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.319	0.043	0.076	—	pCi/L	Y	—	NQ	08-1818	CALA-08-13878	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	6.9	—	—	3.3	µg/L	Y	J	J	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.32	—	—	3.3	µg/L	Y	J	J	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	12.5	—	—	3.3	µg/L	Y	—	NQ	09-2577	CALA-09-11142	GELC
R-9i S1	189.1	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10.4	—	—	2	µg/L	Y	—	U	08-1818	CALA-08-13875	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	9.07	—	—	0.01	SU	Y	H	NQ	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.91	—	—	0.01	SU	Y	H	J-	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.74	—	—	0.01	SU	Y	H	J-	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.97	—	—	0.01	SU	Y	H	J-	10-1193	CALA-10-9156	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.97	—	—	0.01	SU	Y	H	J-	09-2577	CALA-09-11145	GELC

Table C-2 TA-21 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-9i S2	269.6	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	6.29	—	—	0.725	mg/L	Y	—	NQ	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	13.7	—	—	0.73	mg/L	Y	—	NQ	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	7.18	—	—	0.73	mg/L	Y	—	NQ	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	8.86	—	—	0.73	mg/L	Y	—	NQ	10-1193	CALA-10-9156	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	9.37	—	—	0.73	mg/L	Y	—	NQ	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.9	—	—	0.725	mg/L	Y	—	NQ	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	63.2	—	—	0.73	mg/L	Y	—	NQ	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	57.3	—	—	0.73	mg/L	Y	—	NQ	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	55.6	—	—	0.73	mg/L	Y	—	NQ	10-1193	CALA-10-9156	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	63.5	—	—	0.73	mg/L	Y	—	NQ	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00474	0.0058	0.0327	—	pCi/L	Y	U	U	12-1543	CALA-12-22899	GELC
R-9i S2	269.6	03/18/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00394	0.0062	0.028	—	pCi/L	Y	U	U	11-1697	CALA-11-5110	GELC
R-9i S2	269.6	08/24/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00479	0.0061	0.031	—	pCi/L	Y	U	U	10-4337	CALA-10-25204	GELC
R-9i S2	269.6	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0109	0.0087	0.034	—	pCi/L	Y	U	U	09-2578	CALA-09-11146	GELC
R-9i S2	269.6	09/02/08	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00488	0.0043	0.026	—	pCi/L	Y	U	U	08-1827	CALA-08-13881	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	18.9	—	—	1	µg/L	Y	—	NQ	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	21	—	—	1	µg/L	Y	—	NQ	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	33.1	—	—	1	µg/L	Y	*	NQ	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24.9	—	—	1	µg/L	Y	—	NQ	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	33.1	—	—	1	µg/L	Y	—	NQ	08-1826	CALA-08-13882	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.7	—	—	0.05	mg/L	Y	—	NQ	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.1	—	—	0.05	mg/L	Y	—	NQ	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.7	—	—	0.05	mg/L	Y	—	NQ	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.5	—	—	0.05	mg/L	Y	—	NQ	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.7	—	—	0.03	mg/L	Y	—	NQ	08-1826	CALA-08-13882	GELC
R-9i S2	269.6	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.21	1.8	6.48	—	pCi/L	Y	U	U	12-1543	CALA-12-22899	GELC
R-9i S2	269.6	03/18/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.08	1.7	6	—	pCi/L	Y	U	U	11-1697	CALA-11-5110	GELC
R-9i S2	269.6	08/24/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.873	1.1	3.4	—	pCi/L	Y	U	U	10-4337	CALA-10-25204	GELC
R-9i S2	269.6	07/08/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.539	1.4	4.4	—	pCi/L	Y	U	U	09-2578	CALA-09-11146	GELC
R-9i S2	269.6	09/02/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.846	1.8	6.1	—	pCi/L	Y	U	U	08-1827	CALA-08-13881	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	13.5	—	—	0.067	mg/L	Y	—	NQ	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	12.7	—	—	0.066	mg/L	Y	—	NQ	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	12.7	—	—	0.066	mg/L	Y	—	NQ	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	N	10.7	—	—	0.066	mg/L	Y	—	U	10-1193	CALA-10-9156	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	12.4	—	—	0.066	mg/L	Y	—	NQ	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.25	1.4	6.36	—	pCi/L	Y	U	U	12-1543	CALA-12-22899	GELC
R-9i S2	269.6	03/18/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.87	1.8	6.3	—	pCi/L	Y	U	U	11-1697	CALA-11-5110	GELC
R-9i S2	269.6	08/24/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.0906	1.1	3.6	—	pCi/L	Y	U	U	10-4337	CALA-10-25204	GELC
R-9i S2	269.6	07/08/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.0271	1.2	3.8	—	pCi/L	Y	U	U	09-2578	CALA-09-11146	GELC
R-9i S2	269.6	09/02/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.06	1.2	4.8	—	pCi/L	Y	U	U	08-1827	CALA-08-13881	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.183	—	—	0.033	mg/L	Y	—	NQ	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.177	—	—	0.033	mg/L	Y	—	NQ	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.224	—	—	0.033	mg/L	Y	—	NQ	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.284	—	—	0.033	mg/L	Y	—	NQ	10-1193	CALA-10-9156	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.241	—	—	0.033	mg/L	Y	—	NQ	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/06/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.59	0.902	2.02	—	pCi/L	Y	—	U	12-1543	CALA-12-22899	GELC
R-9i S2	269.6	03/18/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.51	0.81	2.3	—	pCi/L	Y	U	U	11-1697	CALA-11-5110	GELC
R-9i S2	269.6	08/24/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.87	0.87	2.3	—	pCi/L	Y	U	U	10-4337	CALA-10-25204	GELC
R-9i S2	269.6	07/08/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.03	0.66	2.1	—	pCi/L	Y	U	U	09-2578	CALA-09-11146	GELC
R-9i S2	269.6	02/06/04	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.176	0.378	1.62	—	pCi/L	Y	U	U	106760	GU0311G9iR201	GELC
R-9i S2	269.6	09/06/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.32	0.859	2.52	—	pCi/L	Y	—	J	12-1543	CALA-12-22899	GELC

Table C-2 TA-21 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-9i S2	269.6	03/18/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.15	0.97	2.3	—	pCi/L	Y	—	NQ	11-1697	CALA-11-5110	GELC
R-9i S2	269.6	08/24/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.08	0.68	1.8	—	pCi/L	Y	—	NQ	10-4337	CALA-10-25204	GELC
R-9i S2	269.6	07/08/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.635	0.76	2.6	—	pCi/L	Y	U	U	09-2578	CALA-09-11146	GELC
R-9i S2	269.6	02/06/04	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.24	0.801	2.95	—	pCi/L	Y	—	J	106760	GU0311G9iR201	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	70.7	—	—	0.453	mg/L	Y	—	NQ	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	69.5	—	—	0.45	mg/L	Y	—	NQ	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	69.2	—	—	0.35	mg/L	Y	—	NQ	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	73	—	—	0.35	mg/L	Y	—	NQ	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/02/08	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	70.4	—	—	0.35	mg/L	Y	—	NQ	08-1826	CALA-08-13882	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.19	—	—	0.11	mg/L	Y	—	NQ	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.32	—	—	0.11	mg/L	Y	—	NQ	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.45	—	—	0.085	mg/L	Y	—	NQ	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.9	—	—	0.085	mg/L	Y	—	J	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.76	—	—	0.085	mg/L	Y	—	NQ	08-1826	CALA-08-13882	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	5.13	—	—	2	µg/L	Y	J	J	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	9.42	—	—	2	µg/L	Y	J	J	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	4.53	—	—	2	µg/L	Y	J	J	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	18.6	—	—	2	µg/L	Y	—	NQ	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	19.6	—	—	2	µg/L	Y	—	NQ	08-1826	CALA-08-13882	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	3.3	—	—	0.165	µg/L	Y	—	NQ	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.97	—	—	0.17	µg/L	Y	—	J	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.8	—	—	0.1	µg/L	Y	—	NQ	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	3.36	—	—	0.1	µg/L	Y	—	NQ	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	3.1	—	—	0.1	µg/L	Y	—	J	08-1826	CALA-08-13882	GELC
R-9i S2	269.6	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.41	3.58	12.8	—	pCi/L	Y	U	U	12-1543	CALA-12-22899	GELC
R-9i S2	269.6	03/18/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.39	3	10	—	pCi/L	Y	U	U	11-1697	CALA-11-5110	GELC
R-9i S2	269.6	08/24/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.77	2.1	7.3	—	pCi/L	Y	U	U	10-4337	CALA-10-25204	GELC
R-9i S2	269.6	07/08/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-24.1	12	33	—	pCi/L	Y	U	U	09-2578	CALA-09-11146	GELC
R-9i S2	269.6	09/02/08	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	9.3	10	33	—	pCi/L	Y	U	U	08-1827	CALA-08-13881	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.45	—	—	0.5	µg/L	Y	—	NQ	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	5.04	—	—	0.5	µg/L	Y	—	J	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	6.94	—	—	0.5	µg/L	Y	—	NQ	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	5.12	—	—	0.5	µg/L	Y	—	NQ	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	7.4	—	—	0.5	µg/L	Y	—	NQ	08-1826	CALA-08-13882	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.855	—	—	0.017	mg/L	Y	—	NQ	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.895	—	—	0.05	mg/L	Y	—	NQ	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.805	—	—	0.05	mg/L	Y	—	J	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.77	—	—	0.05	mg/L	Y	—	NQ	10-1193	CALA-10-9156	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.182	—	—	0.01	mg/L	Y	—	NQ	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2.34	—	—	0.25	µg/L	Y	—	NQ	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2.34	—	—	0.25	µg/L	Y	—	NQ	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2.36	—	—	0.25	µg/L	Y	—	NQ	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	01/08/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2.08	—	—	0.25	µg/L	Y	—	NQ	10-1193	CALA-10-9156	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2.37	—	—	0.2	µg/L	Y	—	NQ	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00357	0.0255	—	pCi/L	Y	U	U	12-1543	CALA-12-22899	GELC
R-9i S2	269.6	03/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00198	0.0034	0.025	—	pCi/L	Y	U	U	11-1697	CALA-11-5110	GELC
R-9i S2	269.6	08/24/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0112	0.0083	0.017	—	pCi/L	Y	U	U	10-4337	CALA-10-25204	GELC
R-9i S2	269.6	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0146	0.011	0.033	—	pCi/L	Y	U	U	09-2578	CALA-09-11146	GELC
R-9i S2	269.6	09/02/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00212	0.0037	0.032	—	pCi/L	Y	U	U	08-1827	CALA-08-13881	GELC
R-9i S2	269.6	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00253	0.00565	0.0299	—	pCi/L	Y	U	U	12-1543	CALA-12-22899	GELC
R-9i S2	269.6	03/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0158	0.0093	0.037	—	pCi/L	Y	U	U	11-1697	CALA-11-5110	GELC

Table C-2 TA-21 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-9i S2	269.6	08/24/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00186	0.0049	0.027	—	pCi/L	Y	U	U	10-4337	CALA-10-25204	GELC
R-9i S2	269.6	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00417	0.0066	0.041	—	pCi/L	Y	U	U	09-2578	CALA-09-11146	GELC
R-9i S2	269.6	09/02/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00211	0.003	0.036	—	pCi/L	Y	U	U	08-1827	CALA-08-13881	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.06	—	—	0.05	mg/L	Y	E	NQ	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.99	—	—	0.05	mg/L	Y	—	NQ	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.04	—	—	0.05	mg/L	Y	—	NQ	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.28	—	—	0.05	mg/L	Y	—	NQ	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.91	—	—	0.05	mg/L	Y	—	NQ	08-1826	CALA-08-13882	GELC
R-9i S2	269.6	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	5.58	16.5	63.4	—	pCi/L	Y	U	U	12-1543	CALA-12-22899	GELC
R-9i S2	269.6	03/18/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-11.8	24	82	—	pCi/L	Y	U	U	11-1697	CALA-11-5110	GELC
R-9i S2	269.6	08/24/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-14.5	15	49	—	pCi/L	Y	U	U	10-4337	CALA-10-25204	GELC
R-9i S2	269.6	07/08/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	12.9	16	56	—	pCi/L	Y	U	U	09-2578	CALA-09-11146	GELC
R-9i S2	269.6	09/02/08	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-4.61	17	59	—	pCi/L	Y	U	U	08-1827	CALA-08-13881	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	35.4	—	—	0.053	mg/L	Y	—	NQ	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	35.7	—	—	0.053	mg/L	Y	—	NQ	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	35.6	—	—	0.053	mg/L	Y	—	NQ	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	01/08/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	31.4	—	—	0.053	mg/L	Y	—	NQ	10-1193	CALA-10-9156	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	39.7	—	—	0.053	mg/L	Y	—	NQ	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.3	—	—	0.1	mg/L	Y	—	NQ	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.99	—	—	0.1	mg/L	Y	—	NQ	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.8	—	—	0.1	mg/L	Y	—	NQ	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.8	—	—	0.1	mg/L	Y	—	NQ	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.94	—	—	0.045	mg/L	Y	—	NQ	08-1826	CALA-08-13882	GELC
R-9i S2	269.6	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.0358	1.36	5.25	—	pCi/L	Y	U	U	12-1543	CALA-12-22899	GELC
R-9i S2	269.6	03/18/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.22	1.5	5.4	—	pCi/L	Y	U	U	11-1697	CALA-11-5110	GELC
R-9i S2	269.6	08/24/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.679	1.1	3.9	—	pCi/L	Y	U	U	10-4337	CALA-10-25204	GELC
R-9i S2	269.6	07/08/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.3	1.5	4.5	—	pCi/L	Y	U	U	09-2578	CALA-09-11146	GELC
R-9i S2	269.6	09/02/08	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.286	1.3	4.4	—	pCi/L	Y	U	U	08-1827	CALA-08-13881	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	207	—	—	1	µS/cm	Y	—	NQ	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	202	—	—	1	µS/cm	Y	—	NQ	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	206	—	—	1	µS/cm	Y	—	NQ	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	176	—	—	1	µS/cm	Y	—	NQ	10-1193	CALA-10-9156	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	198	—	—	1	µS/cm	Y	—	NQ	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	99.9	—	—	1	µg/L	Y	—	NQ	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	94.8	—	—	1	µg/L	Y	—	NQ	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	97.2	—	—	1	µg/L	Y	—	NQ	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	95.6	—	—	1	µg/L	Y	—	NQ	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	90.1	—	—	1	µg/L	Y	—	NQ	08-1826	CALA-08-13882	GELC
R-9i S2	269.6	09/06/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.2	0.129	0.428	—	pCi/L	Y	U	U	12-1543	CALA-12-22899	GELC
R-9i S2	269.6	03/18/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.303	0.16	0.51	—	pCi/L	Y	U	U	11-1697	CALA-11-5110	GELC
R-9i S2	269.6	08/24/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.18	0.15	0.49	—	pCi/L	Y	U	U	10-4337	CALA-10-25204	GELC
R-9i S2	269.6	07/08/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	1.21	0.17	0.35	—	pCi/L	Y	—	NQ	09-2578	CALA-09-11146	GELC
R-9i S2	269.6	07/08/09	WG	UF	RE	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.24	0.094	0.42	—	pCi/L	N	U	U	09-2578	CALA-09-11146	GELC
R-9i S2	269.6	09/02/08	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.191	0.099	0.44	—	pCi/L	Y	U	U	08-1827	CALA-08-13881	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	13.4	—	—	0.133	mg/L	Y	—	NQ	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	13.6	—	—	0.1	mg/L	Y	—	NQ	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	14.1	—	—	0.1	mg/L	Y	—	J+	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	12.2	—	—	0.1	mg/L	Y	—	NQ	10-1193	CALA-10-9156	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	14.1	—	—	0.1	mg/L	Y	—	NQ	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	123	—	—	3.4	mg/L	Y	—	NQ	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	149	—	—	2.4	mg/L	Y	—	NQ	11-1698	CALA-11-5109	GELC

Table C-2 TA-21 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-9i S2	269.6	08/24/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	135	—	—	2.4	mg/L	Y	—	NQ	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	01/08/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	126	—	—	2.4	mg/L	Y	—	NQ	10-1193	CALA-10-9156	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	147	—	—	2.4	mg/L	Y	—	NQ	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/06/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.16	—	—	0.33	mg/L	Y	—	NQ	12-1543	CALA-12-22899	GELC
R-9i S2	269.6	03/18/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.835	—	—	0.33	mg/L	Y	J	J	11-1698	CALA-11-5110	GELC
R-9i S2	269.6	08/24/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.957	—	—	0.33	mg/L	Y	J	J	10-4337	CALA-10-25204	GELC
R-9i S2	269.6	01/08/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.2	—	—	0.33	mg/L	Y	—	NQ	10-1192	CALA-10-9154	GELC
R-9i S2	269.6	07/08/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.494	—	—	0.33	mg/L	Y	J	J	09-2576	CALA-09-11146	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.61	—	—	0.067	µg/L	Y	—	NQ	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.54	—	—	0.067	µg/L	Y	—	NQ	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.72	—	—	0.05	µg/L	Y	—	NQ	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.67	—	—	0.05	µg/L	Y	—	NQ	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.5	—	—	0.05	µg/L	Y	—	NQ	08-1826	CALA-08-13882	GELC
R-9i S2	269.6	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.721	0.0449	0.0686	—	pCi/L	Y	—	NQ	12-1543	CALA-12-22899	GELC
R-9i S2	269.6	03/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.788	0.071	0.052	—	pCi/L	Y	—	NQ	11-1697	CALA-11-5110	GELC
R-9i S2	269.6	08/24/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.701	0.058	0.045	—	pCi/L	Y	—	NQ	10-4337	CALA-10-25204	GELC
R-9i S2	269.6	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.715	0.066	0.097	—	pCi/L	Y	—	NQ	09-2578	CALA-09-11146	GELC
R-9i S2	269.6	09/02/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.678	0.055	0.072	—	pCi/L	Y	—	NQ	08-1827	CALA-08-13881	GELC
R-9i S2	269.6	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0188	0.00886	0.029	—	pCi/L	Y	U	U	12-1543	CALA-12-22899	GELC
R-9i S2	269.6	03/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0241	0.0087	0.033	—	pCi/L	Y	U	U	11-1697	CALA-11-5110	GELC
R-9i S2	269.6	08/24/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0406	0.01	0.021	—	pCi/L	Y	—	NQ	10-4337	CALA-10-25204	GELC
R-9i S2	269.6	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0251	0.0091	0.048	—	pCi/L	Y	U	U	09-2578	CALA-09-11146	GELC
R-9i S2	269.6	09/02/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0415	0.011	0.039	—	pCi/L	Y	—	NQ	08-1827	CALA-08-13881	GELC
R-9i S2	269.6	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.519	0.0368	0.0342	—	pCi/L	Y	—	NQ	12-1543	CALA-12-22899	GELC
R-9i S2	269.6	03/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.515	0.051	0.036	—	pCi/L	Y	—	NQ	11-1697	CALA-11-5110	GELC
R-9i S2	269.6	08/24/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.486	0.043	0.027	—	pCi/L	Y	—	NQ	10-4337	CALA-10-25204	GELC
R-9i S2	269.6	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.521	0.052	0.048	—	pCi/L	Y	—	NQ	09-2578	CALA-09-11146	GELC
R-9i S2	269.6	09/02/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.485	0.042	0.038	—	pCi/L	Y	—	NQ	08-1827	CALA-08-13881	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.7	—	—	1	µg/L	Y	J	J	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	3.21	—	—	1	µg/L	Y	J	U	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.82	—	—	1	µg/L	Y	J	J	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.81	—	—	1	µg/L	Y	J	J	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.4	—	—	1	µg/L	Y	J	J	08-1826	CALA-08-13882	GELC
R-9i S2	269.6	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.64	—	—	3.3	µg/L	Y	J	J	12-1543	CALA-12-22905	GELC
R-9i S2	269.6	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	42.2	—	—	3.3	µg/L	Y	—	NQ	11-1698	CALA-11-5109	GELC
R-9i S2	269.6	08/24/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	10-4337	CALA-10-25203	GELC
R-9i S2	269.6	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.64	—	—	3.3	µg/L	Y	J	J	09-2577	CALA-09-11145	GELC
R-9i S2	269.6	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	5.1	—	—	2	µg/L	Y	J	U	08-1826	CALA-08-13882	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.3	—	—	0.01	SU	Y	H	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.44	—	—	0.01	SU	Y	H	J-	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.41	—	—	0.01	SU	Y	H	J-	11-1698	CALA-11-5169	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.39	—	—	0.01	SU	Y	H	J-	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.39	—	—	0.01	SU	Y	H	J-	10-4359	CALA-10-25209	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.78	—	—	0.01	SU	Y	H	J-	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.9	—	—	0.01	SU	Y	H	J-	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.48	—	—	0.01	SU	Y	H	J-	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	93.3	—	—	0.725	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	92.7	—	—	0.73	mg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	91.6	—	—	0.73	mg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	91.8	—	—	0.73	mg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	92.3	—	—	0.73	mg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC

Table C-2 TA-21 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
TA-53i	600	01/07/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	84.6	—	—	0.73	mg/L	Y	—	NQ	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	84.6	—	—	0.73	mg/L	Y	—	NQ	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	84.9	—	—	0.73	mg/L	Y	—	NQ	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00244	0.00545	0.0334	—	pCi/L	Y	U	U	12-1519	CALA-12-22823	GELC
TA-53i	600	03/18/11	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00182	0.0032	0.026	—	pCi/L	Y	U	U	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.0059	0.027	—	pCi/L	Y	U	U	11-1697	CALA-11-5168	GELC
TA-53i	600	08/25/10	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00497	0.0024	0.034	—	pCi/L	Y	U	U	10-4358	CALA-10-25210	GELC
TA-53i	600	08/25/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00763	0.0055	0.045	—	pCi/L	Y	U	U	10-4358	CALA-10-25207	GELC
TA-53i	600	01/07/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.000249	0.0016	0.024	—	pCi/L	Y	U	U	10-1170	CALA-10-9193	GELC
TA-53i	600	01/07/10	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.000534	0.0017	0.026	—	pCi/L	Y	U	U	10-1170	CALA-10-9197	GELC
TA-53i	600	11/30/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00379	0.0034	0.03	—	pCi/L	Y	U	U	10-726	CALA-10-6870	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.11	—	—	1.7	µg/L	Y	J	J	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-1698	CALA-11-5167	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.5	µg/L	Y	U	U	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.5	µg/L	Y	U	U	10-4359	CALA-10-25209	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.5	µg/L	Y	U	U	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.5	µg/L	Y	U	U	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.5	µg/L	Y	U	U	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	41.2	—	—	1	µg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	38.8	—	—	1	µg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	40.6	—	—	1	µg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	37.8	—	—	1	µg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	40.1	—	—	1	µg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	39.6	—	—	1	µg/L	Y	—	NQ	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	39	—	—	1	µg/L	Y	—	NQ	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	39.8	—	—	1	µg/L	Y	—	NQ	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	28.5	—	—	15	µg/L	Y	J	J	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	29.4	—	—	15	µg/L	Y	J	J	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	28.7	—	—	15	µg/L	Y	J	J	11-1698	CALA-11-5167	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	26.8	—	—	15	µg/L	Y	J	J	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	27.4	—	—	15	µg/L	Y	J	J	10-4359	CALA-10-25209	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	21.7	—	—	15	µg/L	Y	J	J	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	22.1	—	—	15	µg/L	Y	J	J	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	26.4	—	—	15	µg/L	Y	J	J	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	1.8	—	—	0.067	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	1.79	—	—	0.066	mg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	1.75	—	—	0.066	mg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	1.6	—	—	0.066	mg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	1.6	—	—	0.066	mg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	1.37	—	—	0.066	mg/L	Y	—	NQ	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	1.38	—	—	0.066	mg/L	Y	—	NQ	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	1.37	—	—	0.066	mg/L	Y	—	NQ	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	38.9	—	—	0.05	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	35.5	—	—	0.05	mg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	37.1	—	—	0.05	mg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	36.1	—	—	0.05	mg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	34.7	—	—	0.05	mg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	33.9	—	—	0.05	mg/L	Y	—	NQ	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	33.3	—	—	0.05	mg/L	Y	—	NQ	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	33.9	—	—	0.05	mg/L	Y	—	NQ	10-726	CALA-10-6871	GELC

Table C-2 TA-21 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
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.04	1.75	6	—	pCi/L	Y	U	U	12-1519	CALA-12-22823	GELC
TA-53i	600	03/18/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.03	1.3	3.9	—	pCi/L	Y	U	U	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.946	1.6	5.2	—	pCi/L	Y	U	U	11-1697	CALA-11-5168	GELC
TA-53i	600	08/25/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.839	1.4	4.8	—	pCi/L	Y	U	U	10-4358	CALA-10-25207	GELC
TA-53i	600	08/25/10	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.8	1.4	5.3	—	pCi/L	Y	U	U	10-4358	CALA-10-25210	GELC
TA-53i	600	01/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.45	1.6	5.6	—	pCi/L	Y	U	U	10-1170	CALA-10-9193	GELC
TA-53i	600	01/07/10	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.831	1.4	4.6	—	pCi/L	Y	U	U	10-1170	CALA-10-9197	GELC
TA-53i	600	11/30/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.49	1.3	4.6	—	pCi/L	Y	U	U	10-726	CALA-10-6870	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	30.7	—	—	0.335	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	29.2	—	—	0.33	mg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	29.2	—	—	0.33	mg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	30.9	—	—	0.13	mg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	31	—	—	0.13	mg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	25.6	—	—	0.33	mg/L	Y	—	NQ	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	25.3	—	—	0.33	mg/L	Y	—	NQ	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	26.4	—	—	0.33	mg/L	Y	—	NQ	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	7.38	—	—	2	µg/L	Y	J	J	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.25	—	—	2	µg/L	Y	J	J	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.2	—	—	2	µg/L	Y	J	J	11-1698	CALA-11-5167	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	8.02	—	—	2.5	µg/L	Y	J	U	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	6.21	—	—	2.5	µg/L	Y	J	U	10-4359	CALA-10-25209	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	10.7	—	—	2.5	µg/L	Y	—	U	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	8.84	—	—	2.5	µg/L	Y	J	U	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.33	—	—	2.5	µg/L	Y	J	J	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.042	1.22	4.81	—	pCi/L	Y	U	U	12-1519	CALA-12-22823	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-3.08	1.7	4.2	—	pCi/L	Y	U	U	11-1697	CALA-11-5168	GELC
TA-53i	600	03/18/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.43	1.6	6.1	—	pCi/L	Y	U	U	11-1697	CALA-11-5170	GELC
TA-53i	600	08/25/10	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.38	1.5	4.4	—	pCi/L	Y	U	U	10-4358	CALA-10-25210	GELC
TA-53i	600	08/25/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.547	1.4	4.4	—	pCi/L	Y	U	U	10-4358	CALA-10-25207	GELC
TA-53i	600	01/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.271	1.4	4.4	—	pCi/L	Y	U	U	10-1170	CALA-10-9193	GELC
TA-53i	600	01/07/10	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.681	1.4	4.5	—	pCi/L	Y	U	U	10-1170	CALA-10-9197	GELC
TA-53i	600	11/30/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.21	1.2	4.3	—	pCi/L	Y	U	U	10-726	CALA-10-6870	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.138	—	—	0.033	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.136	—	—	0.033	mg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.146	—	—	0.033	mg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.172	—	—	0.033	mg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.165	—	—	0.033	mg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.306	—	—	0.033	mg/L	Y	—	NQ	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.307	—	—	0.033	mg/L	Y	—	NQ	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.137	—	—	0.033	mg/L	Y	—	NQ	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.1	0.876	2.17	—	pCi/L	Y	U	U	12-1519	CALA-12-22823	GELC
TA-53i	600	03/18/11	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	1.01	0.66	2	—	pCi/L	Y	U	U	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.11	0.75	2.2	—	pCi/L	Y	U	U	11-1697	CALA-11-5168	GELC
TA-53i	600	08/25/10	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	1.29	0.86	2.8	—	pCi/L	Y	U	U	10-4358	CALA-10-25210	GELC
TA-53i	600	08/25/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.509	0.69	2.5	—	pCi/L	Y	U	U	10-4358	CALA-10-25207	GELC
TA-53i	600	01/07/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.62	0.79	2.2	—	pCi/L	Y	U	U	10-1170	CALA-10-9193	GELC
TA-53i	600	01/07/10	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.691	0.53	1.8	—	pCi/L	Y	U	U	10-1170	CALA-10-9197	GELC
TA-53i	600	11/30/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.195	0.61	3	—	pCi/L	Y	U	U	10-726	CALA-10-6870	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.24	0.809	1.95	—	pCi/L	Y	—	J	12-1519	CALA-12-22823	GELC
TA-53i	600	03/18/11	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	3.86	1	2.8	—	pCi/L	Y	—	NQ	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.89	0.96	2.3	—	pCi/L	Y	—	NQ	11-1697	CALA-11-5168	GELC

Table C-2 TA-21 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
TA-53i	600	08/25/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.58	0.8	2.1	—	pCi/L	Y	—	NQ	10-4358	CALA-10-25207	GELC
TA-53i	600	08/25/10	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	3.43	1	3	—	pCi/L	Y	—	NQ	10-4358	CALA-10-25210	GELC
TA-53i	600	01/07/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.61	0.98	2.8	—	pCi/L	Y	—	NQ	10-1170	CALA-10-9193	GELC
TA-53i	600	01/07/10	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	3.46	0.93	2.5	—	pCi/L	Y	—	NQ	10-1170	CALA-10-9197	GELC
TA-53i	600	11/30/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.19	0.99	2.4	—	pCi/L	Y	—	NQ	10-726	CALA-10-6870	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	131	—	—	0.453	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	119	—	—	0.45	mg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	124	—	—	0.45	mg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	121	—	—	0.35	mg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	117	—	—	0.35	mg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	113	—	—	0.35	mg/L	Y	—	NQ	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	112	—	—	0.35	mg/L	Y	—	NQ	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	114	—	—	0.35	mg/L	Y	—	NQ	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.24	—	—	0.11	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.31	—	—	0.11	mg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.68	—	—	0.11	mg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.29	—	—	0.085	mg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.51	—	—	0.085	mg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.97	—	—	0.085	mg/L	Y	—	NQ	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.97	—	—	0.085	mg/L	Y	—	NQ	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.15	—	—	0.085	mg/L	Y	—	NQ	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	3.09	—	—	2	µg/L	Y	J	J	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	4.58	—	—	2	µg/L	Y	J	J	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Manganese	Mn	Y	4.22	—	—	2	µg/L	Y	J	J	11-1698	CALA-11-5169	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Manganese	Mn	Y	6.67	—	—	2	µg/L	Y	J	J	10-4359	CALA-10-25209	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	7.43	—	—	2	µg/L	Y	J	J	10-4359	CALA-10-25208	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Manganese	Mn	Y	5.63	—	—	2	µg/L	Y	J	J	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	5.47	—	—	2	µg/L	Y	J	J	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	9.68	—	—	2	µg/L	Y	J	J	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	122	—	—	0.825	µg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	107	—	—	0.17	µg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	105	—	—	0.17	µg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	97.2	—	—	0.1	µg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	93.9	—	—	0.1	µg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	90.5	—	—	0.1	µg/L	Y	—	NQ	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	89.6	—	—	0.1	µg/L	Y	—	NQ	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	87.5	—	—	0.1	µg/L	Y	—	NQ	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-4.51	2.92	9.74	—	pCi/L	Y	U	U	12-1519	CALA-12-22823	GELC
TA-53i	600	03/18/11	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.835	2.9	9.6	—	pCi/L	Y	U	U	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-5.44	3.4	10	—	pCi/L	Y	U	U	11-1697	CALA-11-5168	GELC
TA-53i	600	08/25/10	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.51	2.9	9.4	—	pCi/L	Y	U	U	10-4358	CALA-10-25210	GELC
TA-53i	600	08/25/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.457	2.4	7.6	—	pCi/L	Y	U	U	10-4358	CALA-10-25207	GELC
TA-53i	600	01/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	28.1	14	44	—	pCi/L	Y	U	U	10-1170	CALA-10-9193	GELC
TA-53i	600	01/07/10	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.34	12	39	—	pCi/L	Y	U	U	10-1170	CALA-10-9197	GELC
TA-53i	600	11/30/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.71	9.7	31	—	pCi/L	Y	U	U	10-726	CALA-10-6870	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	9.66	—	—	0.5	µg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	12.4	—	—	0.5	µg/L	Y	—	J	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	11.4	—	—	0.5	µg/L	Y	—	J	11-1698	CALA-11-5169	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	11.7	—	—	0.5	µg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	11.2	—	—	0.5	µg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	21.9	—	—	0.5	µg/L	Y	—	NQ	10-1169	CALA-10-9196	GELC

Table C-2 TA-21 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
TA-53i	600	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	21.6	—	—	0.5	µg/L	Y	—	NQ	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	21.5	—	—	0.5	µg/L	Y	—	NQ	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.08	—	—	0.085	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.13	—	—	0.05	mg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.11	—	—	0.05	mg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.06	—	—	0.05	mg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.04	—	—	0.05	mg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.985	—	—	0.05	mg/L	Y	—	NQ	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.96	—	—	0.05	mg/L	Y	—	NQ	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.97	—	—	0.05	mg/L	Y	—	J	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.631	—	—	0.05	µg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.655	—	—	0.05	µg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.632	—	—	0.05	µg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.677	—	—	0.05	µg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.68	—	—	0.05	µg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.639	—	—	0.05	µg/L	Y	—	NQ	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.67	—	—	0.05	µg/L	Y	—	NQ	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.625	—	—	0.05	µg/L	Y	—	J+	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00478	0.00585	0.0241	—	pCi/L	Y	U	U	12-1519	CALA-12-22823	GELC
TA-53i	600	03/18/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00233	0.009	0.029	—	pCi/L	Y	U	U	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00207	0.0046	0.026	—	pCi/L	Y	U	U	11-1697	CALA-11-5168	GELC
TA-53i	600	08/25/10	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-2.6E-10	0.003	0.024	—	pCi/L	Y	U	U	10-4358	CALA-10-25210	GELC
TA-53i	600	08/25/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00198	0.0028	0.022	—	pCi/L	Y	U	U	10-4358	CALA-10-25207	GELC
TA-53i	600	01/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00482	0.0028	0.022	—	pCi/L	Y	U	U	10-1170	CALA-10-9193	GELC
TA-53i	600	01/07/10	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00194	0.0019	0.027	—	pCi/L	Y	U	U	10-1170	CALA-10-9197	GELC
TA-53i	600	11/30/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-8.9E-09	0.019	0.034	—	pCi/L	Y	U	U	10-726	CALA-10-6870	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00239	0.00414	0.0282	—	pCi/L	Y	U	U	12-1519	CALA-12-22823	GELC
TA-53i	600	03/18/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00233	0.0052	0.043	—	pCi/L	Y	U	U	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0062	0.0041	0.039	—	pCi/L	Y	U	U	11-1697	CALA-11-5168	GELC
TA-53i	600	08/25/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-1.9E-09	0.0084	0.032	—	pCi/L	Y	U	U	10-4358	CALA-10-25207	GELC
TA-53i	600	08/25/10	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00215	0.0037	0.035	—	pCi/L	Y	U	U	10-4358	CALA-10-25210	GELC
TA-53i	600	01/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00321	0.0023	0.023	—	pCi/L	Y	U	U	10-1170	CALA-10-9193	GELC
TA-53i	600	01/07/10	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0097	0.0052	0.027	—	pCi/L	Y	U	U	10-1170	CALA-10-9197	GELC
TA-53i	600	11/30/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00702	0.0062	0.037	—	pCi/L	Y	U	U	10-726	CALA-10-6870	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.65	—	—	0.05	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5	—	—	0.05	mg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	5.21	—	—	0.05	mg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	5.38	—	—	0.05	mg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.18	—	—	0.05	mg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	4.96	—	—	0.05	mg/L	Y	—	NQ	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.91	—	—	0.05	mg/L	Y	—	NQ	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.11	—	—	0.05	mg/L	Y	—	NQ	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	37.4	17.8	76.6	—	pCi/L	Y	U	U	12-1519	CALA-12-22823	GELC
TA-53i	600	03/18/11	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-4.33	19	67	—	pCi/L	Y	U	U	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-19.6	23	68	—	pCi/L	Y	U	U	11-1697	CALA-11-5168	GELC
TA-53i	600	08/25/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-19.5	20	70	—	pCi/L	Y	U	U	10-4358	CALA-10-25207	GELC
TA-53i	600	08/25/10	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	19	17	66	—	pCi/L	Y	U	U	10-4358	CALA-10-25210	GELC
TA-53i	600	01/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-0.438	21	68	—	pCi/L	Y	U	U	10-1170	CALA-10-9193	GELC
TA-53i	600	01/07/10	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	18.6	21	71	—	pCi/L	Y	U	U	10-1170	CALA-10-9197	GELC
TA-53i	600	11/30/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-23.8	17	58	—	pCi/L	Y	U	U	10-726	CALA-10-6870	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	66.7	—	—	0.053	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC

Table C-2 TA-21 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
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	65.4	—	—	0.053	mg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	62.4	—	—	0.053	mg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	61.9	—	—	0.053	mg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	66	—	—	0.053	mg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	63.5	—	—	0.053	mg/L	Y	—	NQ	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	62.7	—	—	0.053	mg/L	Y	—	NQ	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	62.9	—	—	0.053	mg/L	Y	—	NQ	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	17.4	—	—	0.1	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.8	—	—	0.1	mg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.1	—	—	0.1	mg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	16.5	—	—	0.1	mg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.8	—	—	0.1	mg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	14.5	—	—	0.1	mg/L	Y	—	NQ	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	14.3	—	—	0.1	mg/L	Y	—	NQ	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.5	—	—	0.1	mg/L	Y	—	NQ	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-4.11	1.65	4.97	—	pCi/L	Y	U	U	12-1519	CALA-12-22823	GELC
TA-53i	600	03/18/11	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.587	1.1	3.9	—	pCi/L	Y	U	U	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.46	1.8	6.1	—	pCi/L	Y	U	U	11-1697	CALA-11-5168	GELC
TA-53i	600	08/25/10	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.296	1.4	4.8	—	pCi/L	Y	U	U	10-4358	CALA-10-25210	GELC
TA-53i	600	08/25/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.627	1.5	4.6	—	pCi/L	Y	U	U	10-4358	CALA-10-25207	GELC
TA-53i	600	01/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.216	1.3	4.4	—	pCi/L	Y	U	U	10-1170	CALA-10-9193	GELC
TA-53i	600	01/07/10	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.0278	1.4	4.7	—	pCi/L	Y	U	U	10-1170	CALA-10-9197	GELC
TA-53i	600	11/30/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.975	1.4	5	—	pCi/L	Y	U	U	10-726	CALA-10-6870	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	352	—	—	1	µS/cm	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	339	—	—	1	µS/cm	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	339	—	—	1	µS/cm	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	340	—	—	1	µS/cm	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	339	—	—	1	µS/cm	Y	—	NQ	10-4359	CALA-10-25209	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	325	—	—	1	µS/cm	Y	—	NQ	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	332	—	—	1	µS/cm	Y	—	NQ	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	324	—	—	1	µS/cm	Y	—	NQ	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	213	—	—	1	µg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	200	—	—	1	µg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	191	—	—	1	µg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	194	—	—	1	µg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	203	—	—	1	µg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	186	—	—	1	µg/L	Y	—	NQ	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	182	—	—	1	µg/L	Y	—	NQ	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	189	—	—	1	µg/L	Y	—	NQ	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0277	0.051	0.18	—	pCi/L	Y	U	U	12-1519	CALA-12-22823	GELC
TA-53i	600	03/18/11	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0173	0.14	0.49	—	pCi/L	Y	U	U	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.165	0.15	0.5	—	pCi/L	Y	U	U	11-1697	CALA-11-5168	GELC
TA-53i	600	08/25/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.285	0.15	0.5	—	pCi/L	Y	U	U	10-4358	CALA-10-25207	GELC
TA-53i	600	08/25/10	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0609	0.13	0.49	—	pCi/L	Y	U	U	10-4358	CALA-10-25210	GELC
TA-53i	600	01/07/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.359	0.17	0.53	—	pCi/L	Y	U	U	10-1170	CALA-10-9193	GELC
TA-53i	600	01/07/10	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.296	0.11	0.49	—	pCi/L	Y	U	U	10-1170	CALA-10-9197	GELC
TA-53i	600	11/30/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.143	0.14	0.48	—	pCi/L	Y	U	U	10-726	CALA-10-6870	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	18.1	—	—	0.133	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	18	—	—	0.1	mg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	17.9	—	—	0.1	mg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	16.9	—	—	0.1	mg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC

Table C-2 TA-21 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
TA-53i	600	08/25/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	17	—	—	0.1	mg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	15.8	—	—	0.1	mg/L	Y	—	NQ	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	16.1	—	—	0.1	mg/L	Y	—	NQ	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	15.9	—	—	0.1	mg/L	Y	—	NQ	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	233	—	—	3.4	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	240	—	—	2.4	mg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	240	—	—	2.4	mg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	252	—	—	2.4	mg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	249	—	—	2.4	mg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	236	—	—	2.4	mg/L	Y	—	NQ	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	235	—	—	2.4	mg/L	Y	—	NQ	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	242	—	—	2.4	mg/L	Y	—	NQ	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0642	—	—	0.035	mg/L	Y	J	J	12-1519	CALA-12-22823	GELC
TA-53i	600	03/18/11	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0893	—	—	0.035	mg/L	Y	J	J	11-1698	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.132	—	—	0.033	mg/L	Y	—	NQ	11-1698	CALA-11-5168	GELC
TA-53i	600	08/25/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.057	—	—	0.033	mg/L	Y	J	J-	10-4359	CALA-10-25207	GELC
TA-53i	600	08/25/10	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.063	—	—	0.033	mg/L	Y	J	J-	10-4359	CALA-10-25210	GELC
TA-53i	600	01/07/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	UJ	10-1168	CALA-10-9193	GELC
TA-53i	600	01/07/10	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	UJ	10-1168	CALA-10-9197	GELC
TA-53i	600	11/30/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	UJ	10-725	CALA-10-6870	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.24	—	—	0.33	mg/L	Y	—	NQ	12-1519	CALA-12-22823	GELC
TA-53i	600	03/18/11	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	12.7	—	—	0.33	mg/L	Y	—	NQ	11-1698	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.14	—	—	0.33	mg/L	Y	—	NQ	11-1698	CALA-11-5168	GELC
TA-53i	600	08/25/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.11	—	—	0.33	mg/L	Y	—	NQ	10-4359	CALA-10-25207	GELC
TA-53i	600	08/25/10	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.11	—	—	0.33	mg/L	Y	—	NQ	10-4359	CALA-10-25210	GELC
TA-53i	600	01/07/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.66	—	—	0.33	mg/L	Y	—	NQ	10-1168	CALA-10-9193	GELC
TA-53i	600	01/07/10	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.61	—	—	0.33	mg/L	Y	—	NQ	10-1168	CALA-10-9197	GELC
TA-53i	600	11/30/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.8	—	—	0.33	mg/L	Y	—	NQ	10-725	CALA-10-6870	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	281	46.8	126	—	pCi/L	Y	—	NQ	12-1519	CALA-12-22823	GELC
TA-53i	600	03/18/11	WG	UF	INIT	FD	RAD	EPA:906.0	Tritium	H-3	Y	366	73	190	—	pCi/L	Y	—	NQ	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	310	69	190	—	pCi/L	Y	—	NQ	11-1697	CALA-11-5168	GELC
TA-53i	600	08/25/10	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	434.713	80.1581	242.8165	—	pCi/L	N	—	R	10-4429	CALA-10-25207	ARSL
TA-53i	600	08/25/10	WG	UF	INIT	FD	RAD	EPA:906.0	Tritium	H-3	Y	477.185	80.3495	239.8275	—	pCi/L	N	—	R	10-4429	CALA-10-25210	ARSL
TA-53i	600	08/25/10	WG	UF	RE	REG	RAD	EPA:906.0	Tritium	H-3	Y	434.713	80.1581	242.8165	—	pCi/L	Y	—	NQ	10-4429	CALA-10-25207	ARSL
TA-53i	600	08/25/10	WG	UF	RE	FD	RAD	EPA:906.0	Tritium	H-3	Y	477.185	80.3495	239.8275	—	pCi/L	Y	—	NQ	10-4429	CALA-10-25210	ARSL
TA-53i	600	01/07/10	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	531.3	16.1	0.2898	—	pCi/L	Y	—	NQ	10-1190	CALA-10-9193	UMTL
TA-53i	600	01/07/10	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	540.96	16.1	0.2898	—	pCi/L	Y	—	NQ	10-1190	CALA-10-9197	UMTL
TA-53i	600	11/30/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	766.36	25.76	0.2898	—	pCi/L	Y	—	NQ	10-762	CALA-10-6870	UMTL
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.887	—	—	0.067	µg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.886	—	—	0.067	µg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.878	—	—	0.067	µg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.849	—	—	0.05	µg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.813	—	—	0.05	µg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.785	—	—	0.05	µg/L	Y	—	NQ	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.777	—	—	0.05	µg/L	Y	—	NQ	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.898	—	—	0.05	µg/L	Y	—	NQ	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.755	0.0447	0.0682	—	pCi/L	Y	—	NQ	12-1519	CALA-12-22823	GELC
TA-53i	600	03/18/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.715	0.066	0.052	—	pCi/L	Y	—	NQ	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.717	0.063	0.043	—	pCi/L	Y	—	NQ	11-1697	CALA-11-5168	GELC
TA-53i	600	08/25/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.643	0.061	0.068	—	pCi/L	Y	—	NQ	10-4358	CALA-10-25207	GELC
TA-53i	600	08/25/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.631	0.066	0.092	—	pCi/L	Y	—	NQ	10-4358	CALA-10-25210	GELC

Table C-2 TA-21 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
TA-53i	600	01/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.585	0.057	0.075	—	pCi/L	Y	—	NQ	10-1170	CALA-10-9193	GELC
TA-53i	600	01/07/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.708	0.069	0.082	—	pCi/L	Y	—	NQ	10-1170	CALA-10-9197	GELC
TA-53i	600	11/30/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.632	0.066	0.11	—	pCi/L	Y	—	NQ	10-726	CALA-10-6870	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0284	0.0105	0.044	—	pCi/L	Y	U	U	12-1519	CALA-12-22823	GELC
TA-53i	600	03/18/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0241	0.0087	0.033	—	pCi/L	Y	U	U	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0126	0.0067	0.028	—	pCi/L	Y	U	U	11-1697	CALA-11-5168	GELC
TA-53i	600	08/25/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00425	0.0043	0.047	—	pCi/L	Y	U	U	10-4358	CALA-10-25210	GELC
TA-53i	600	08/25/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0094	0.007	0.034	—	pCi/L	Y	U	U	10-4358	CALA-10-25207	GELC
TA-53i	600	01/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0263	0.0095	0.042	—	pCi/L	Y	U	U	10-1170	CALA-10-9193	GELC
TA-53i	600	01/07/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0109	0.0081	0.046	—	pCi/L	Y	U	U	10-1170	CALA-10-9197	GELC
TA-53i	600	11/30/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00853	0.0061	0.059	—	pCi/L	Y	U	U	10-726	CALA-10-6870	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.306	0.0287	0.0346	—	pCi/L	Y	—	NQ	12-1519	CALA-12-22823	GELC
TA-53i	600	03/18/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.278	0.033	0.035	—	pCi/L	Y	—	NQ	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.267	0.03	0.03	—	pCi/L	Y	—	NQ	11-1697	CALA-11-5168	GELC
TA-53i	600	08/25/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.306	0.04	0.041	—	pCi/L	Y	—	NQ	10-4358	CALA-10-25210	GELC
TA-53i	600	08/25/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.248	0.031	0.03	—	pCi/L	Y	—	NQ	10-4358	CALA-10-25207	GELC
TA-53i	600	01/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.29	0.035	0.049	—	pCi/L	Y	—	NQ	10-1170	CALA-10-9193	GELC
TA-53i	600	01/07/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.34	0.041	0.054	—	pCi/L	Y	—	NQ	10-1170	CALA-10-9197	GELC
TA-53i	600	11/30/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.28	0.037	0.071	—	pCi/L	Y	—	NQ	10-726	CALA-10-6870	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.18	—	—	1	µg/L	Y	J	J	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	N	2.49	—	—	1	µg/L	Y	J	U	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	2.54	—	—	1	µg/L	Y	J	U	11-1698	CALA-11-5167	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.48	—	—	1	µg/L	Y	J	J	10-4359	CALA-10-25209	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.61	—	—	1	µg/L	Y	J	J	10-4359	CALA-10-25208	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.49	—	—	1	µg/L	Y	J	J	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.6	—	—	1	µg/L	Y	J	J	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.04	—	—	1	µg/L	Y	J	J	10-726	CALA-10-6871	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	5.71	—	—	3.3	µg/L	Y	J	J	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.36	—	—	3.3	µg/L	Y	J	J	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.84	—	—	3.3	µg/L	Y	J	J	11-1698	CALA-11-5167	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.44	—	—	3.3	µg/L	Y	J	J	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	10-4359	CALA-10-25209	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	9.16	—	—	3.3	µg/L	Y	J	J	10-1169	CALA-10-9196	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	8.75	—	—	3.3	µg/L	Y	J	J	10-1169	CALA-10-9194	GELC
TA-53i	600	11/30/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	11.8	—	—	3.3	µg/L	Y	—	NQ	10-726	CALA-10-6871	GELC

Appendix D

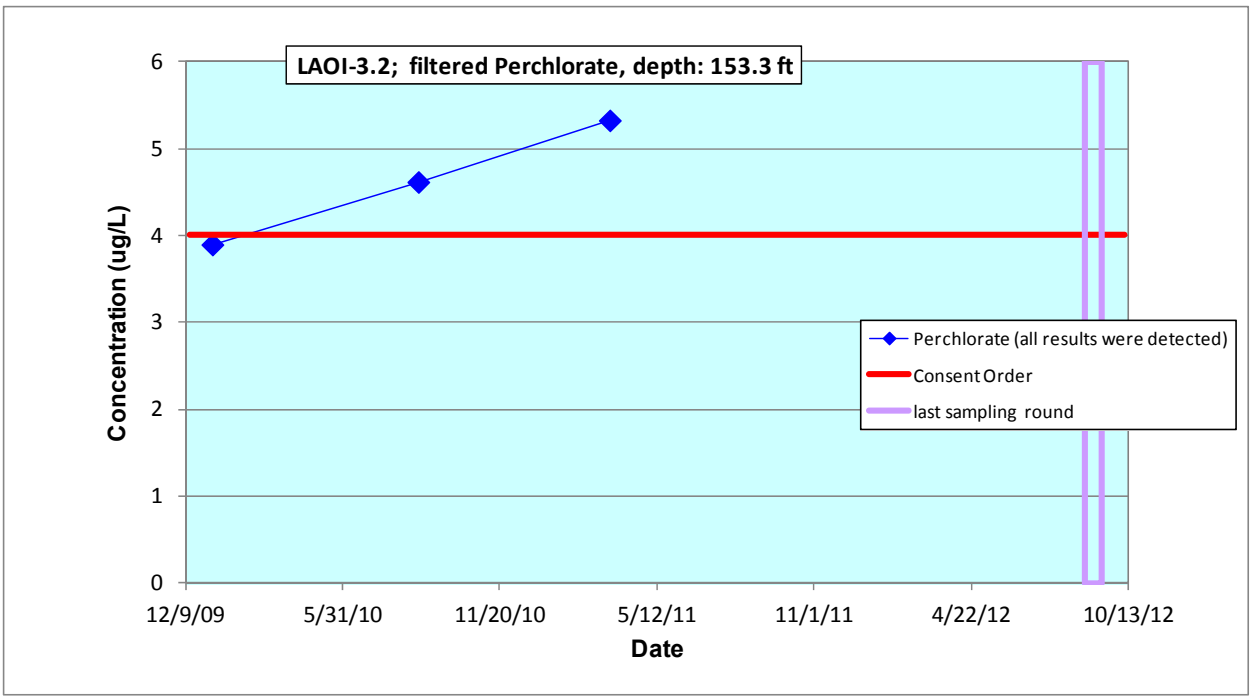
Groundwater Results Greater Than Half of Screening Levels

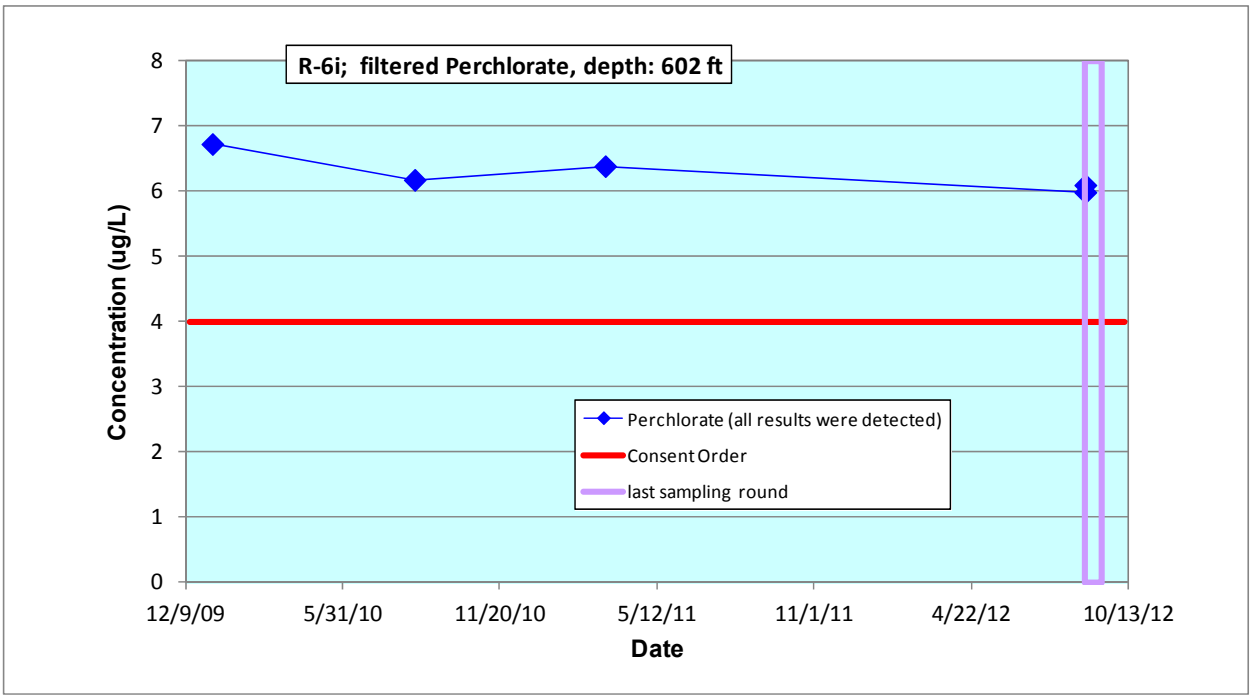
Zone	Location	Screen Top Depth (ft)	Sample Date	Analysis Suite	Parameter Name	Parameter Code	Field Prep Code	Analysis Type Code	Field Quality Control Code	Detect Flag	Report Result	Method Detection Limit	Uncertainty	Minimum Detectable Activity	Unit	Dilution Factor	Validation Qualifier	Validation Reason	Best Value Flag	Analytical Method	Lab ID	Screening Level	Reporting Level	Result/Screening Level
Intermediate	R-5 S2	372.8	08/29/12	General Chemistry	Fluoride	F(-1)	F[a]	INIT[b]	REG[c]	Y[d]	1.01	0.033	—[e]	—	mg/L	1	NQ[f]	NQ	Y	EPA:300.0	GELC[g]	1.6	NMWQCC GW STD[h]	0.63
Intermediate	LAOI-3.2a	181.4	09/13/12	General Chemistry	Perchlorate	ClO4	F	INIT	REG	Y	2.31	0.25	—	—	µg/L	5	NQ	NQ	Y	SW-846:6850	GELC	4	Consent Order	0.58
Intermediate	R-6i	602	08/27/12	General Chemistry	Perchlorate	ClO4	F	INIT	REG	Y	5.98	0.5	—	—	µg/L	10	NQ	NQ	Y	SW-846:6850	GELC	4	Consent Order	1.50
Intermediate	R-6i	602	08/27/12	General Chemistry	Perchlorate	ClO4	F	INIT	FD[i]	Y	6.09	0.5	—	—	µg/L	10	NQ	NQ	Y	SW-846:6850	GELC	4	Consent Order	1.52
Intermediate	R-9i S2	269.6	09/06/12	General Chemistry	Perchlorate	ClO4	F	INIT	REG	Y	2.34	0.25	—	—	µg/L	5	NQ	NQ	Y	SW-846:6850	GELC	4	Consent Order	0.59
Intermediate	R-9i S1	189.1	09/06/12	Metals	Manganese	Mn	F	INIT	REG	Y	215	2	—	—	µg/L	1	NQ	NQ	Y	SW-846:6010B	GELC	200	NMWQCC GW STD	1.08
Intermediate	R-5 S2	372.8	08/29/12	Rad[j]	Gross beta	GROSSB	UF[k]	INIT	REG	Y	26.1	—	1.81	2.9	pCi/L	1	NQ	NQ	Y	EPA:900	GELC	50	EPA SEC DW LVL[l]	0.52

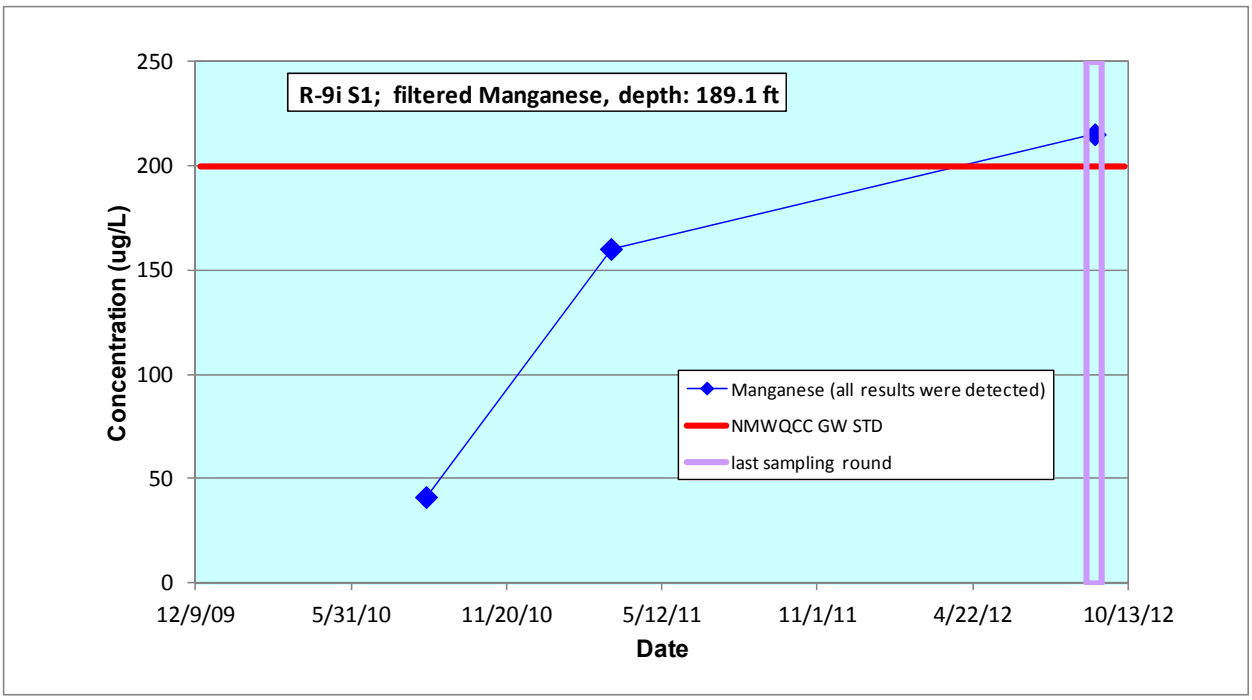
[a] F = Filtered.
[b] INIT = Initial.
[c] REG = Regular.
[d] Y = Yes.
[e] — = None.
[f] NQ = Not qualified.
[g] GELC = General Engineering Laboratories, Inc., Charleston, SC.
[h] NMWQCC GW STD = New Mexico Water Quality Control Commission groundwater standard.
[i] FD = Field duplicate.
[j] Rad = Radioactivity.
[k] UF = Unfiltered.
[l] EPA SEC DW LVL = U.S. Environmental Protection Agency drinking water screening level.

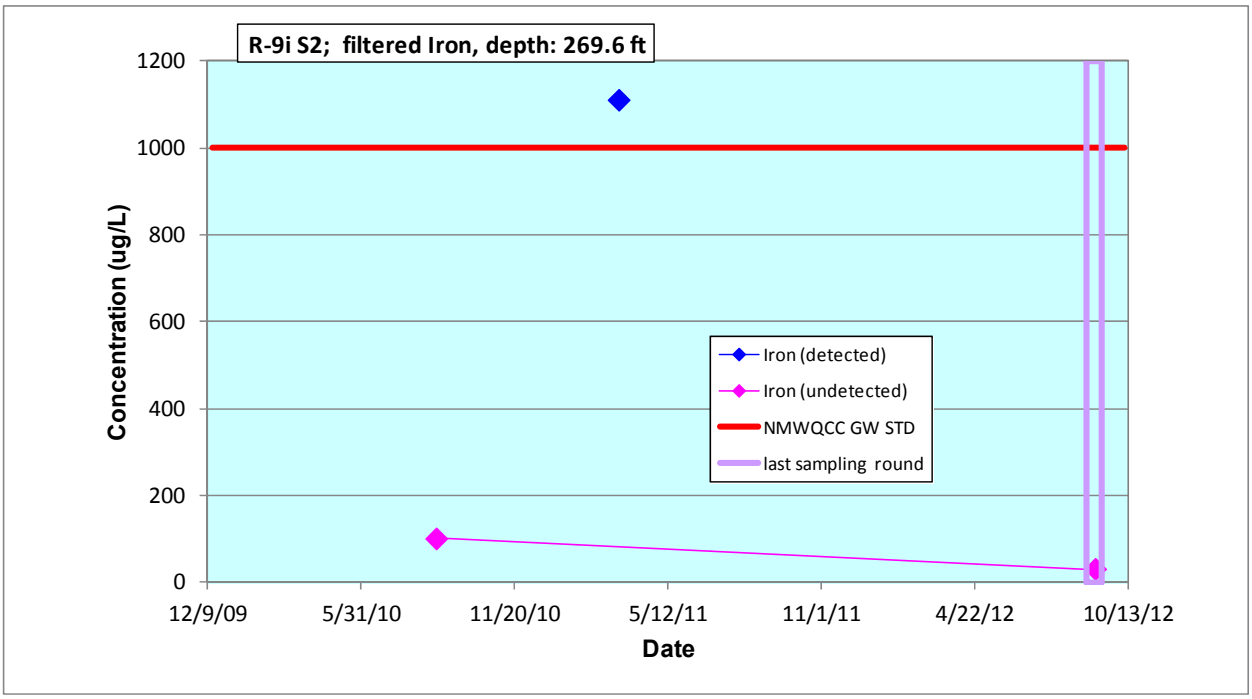
Appendix E

Analytical Chemistry Graphs of Screening-Level Exceedances


LAOI-3.2; filtered Perchlorate, depth: 153.3 ft
Concentration (ug/L)
0
1
2
3
4
5
6
12/9/09
5/31/10
11/20/10
5/12/11
11/1/11
4/22/12
10/13/12
Date
Perchlorate (all results were detected)
Consent Order
last sampling round


R-6i; filtered Perchlorate, depth: 602 ft
Concentration (ug/L)
0
1
2
3
4
5
6
7
8
12/9/09
5/31/10
11/20/10
5/12/11
11/1/11
4/22/12
10/13/12
Date
Perchlorate (all results were detected)
Consent Order
last sampling round


R-9i S1; filtered Manganese, depth: 189.1 ft
Concentration (ug/L)
250
200
150
100
50
0
12/9/09
5/31/10
11/20/10
5/12/11
11/1/11
4/22/12
10/13/12
Date
Manganese (all results were detected)
NMWQCC GW STD
last sampling round


R-9i S2; filtered Iron, depth: 269.6 ft
Concentration (ug/L)
1200
1000
800
600
400
200
0
12/9/09
5/31/10
11/20/10
5/12/11
11/1/11
4/22/12
10/13/12
Date
Iron (detected)
Iron (undetected)
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)
12-594	INORGANIC	GELC[a]	CALA-12-2110	01/16/12	R-66	819.4	839.7
12-594	INORGANIC	GELC	CALA-12-2111	01/16/12	R-66	819.4	839.7
12-594	ORGANIC	GELC	CALA-12-2110	01/16/12	R-66	819.4	839.7
12-594	ORGANIC	GELC	CALA-12-2113	01/16/12	R-66	819.4	839.7
12-594	RAD[b]	GELC	CALA-12-2110	01/16/12	R-66	819.4	839.7
12-595	ORGANIC	STSL[c]	CALA-12-2110	01/16/12	R-66	819.4	839.7
12-603	RAD	ARSL[d]	CALA-12-2110	01/16/12	R-66	819.4	839.7
12-1150	INORGANIC	GELC	CALA-12-12314	03/26/12	R-64	1285	1305.5
12-1150	INORGANIC	GELC	CALA-12-12308	03/26/12	R-64	1285	1305.5
12-1150	INORGANIC	GELC	CALA-12-12310	03/26/12	R-64	1285	1305.5
12-1150	INORGANIC	GELC	CALA-12-12317	03/26/12	R-64	1285	1305.5
12-1150	ORGANIC	GELC	CALA-12-12317	03/26/12	R-64	1285	1305.5
12-1150	ORGANIC	GELC	CALA-12-12308	03/26/12	R-64	1285	1305.5
12-1150	RAD	GELC	CALA-12-12308	03/26/12	R-64	1285	1305.5
12-1150	RAD	GELC	CALA-12-12317	03/26/12	R-64	1285	1305.5
12-1162	RAD	ARSL	CALA-12-12309	03/27/12	R-66	819.4	839.7
12-1163	RAD	ARSL	CALA-12-12308	03/26/12	R-64	1285	1305.5
12-1163	RAD	ARSL	CALA-12-12317	03/26/12	R-64	1285	1305.5
12-1164	INORGANIC	GELC	CALA-12-12311	03/27/12	R-66	819.4	839.7
12-1164	INORGANIC	GELC	CALA-12-12309	03/27/12	R-66	819.4	839.7
12-1164	ORGANIC	GELC	CALA-12-12309	03/27/12	R-66	819.4	839.7
12-1164	RAD	GELC	CALA-12-12309	03/27/12	R-66	819.4	839.7
12-1374	INORGANIC	GELC	CALA-12-17150	06/18/12	R-64	1285	1305.5
12-1374	INORGANIC	GELC	CALA-12-17146	06/18/12	R-64	1285	1305.5
12-1374	INORGANIC	GELC	CALA-12-17147	06/18/12	R-64	1285	1305.5
12-1374	INORGANIC	GELC	CALA-12-17152	06/18/12	R-64	1285	1305.5
12-1374	ORGANIC	GELC	CALA-12-17150	06/18/12	R-64	1285	1305.5
12-1374	ORGANIC	GELC	CALA-12-17146	06/18/12	R-64	1285	1305.5
12-1374	RAD	GELC	CALA-12-17150	06/18/12	R-64	1285	1305.5
12-1374	RAD	GELC	CALA-12-17146	06/18/12	R-64	1285	1305.5
12-1374-1	INORGANIC	GELC	CALA-12-17147	06/18/12	R-64	1285	1305.5
12-1374-1	INORGANIC	GELC	CALA-12-17152	06/18/12	R-64	1285	1305.5
12-1380	RAD	ARSL	CALA-12-17150	06/18/12	R-64	1285	1305.5
12-1380	RAD	ARSL	CALA-12-17146	06/18/12	R-64	1285	1305.5
12-1383	INORGANIC	GELC	CALA-12-17151	06/22/12	R-66	819.4	839.7
12-1383	INORGANIC	GELC	CALA-12-17153	06/22/12	R-66	819.4	839.7
12-1383	ORGANIC	GELC	CALA-12-17151	06/22/12	R-66	819.4	839.7
12-1383	RAD	GELC	CALA-12-17151	06/22/12	R-66	819.4	839.7

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
12-1383-1	INORGANIC	GELC	CALA-12-17153	06/22/12	R-66	819.4	839.7
12-1388	RAD	ARSL	CALA-12-17151	06/22/12	R-66	819.4	839.7
12-1518	INORGANIC	GELC	CALA-12-22828	08/27/12	R-6	1205	1228
12-1518	INORGANIC	GELC	CALA-12-22803	08/27/12	R-6i	602	612
12-1518	INORGANIC	GELC	CALA-12-22831	08/27/12	R-6i	602	612
12-1518	INORGANIC	GELC	CALA-12-22801	08/27/12	R-6i	602	612
12-1518	INORGANIC	GELC	CALA-12-22822	08/27/12	R-6i	602	612
12-1518	INORGANIC	GELC	CALA-12-22819	08/27/12	R-6	1205	1228
12-1518	ORGANIC	GELC	CALA-12-22801	08/27/12	R-6i	602	612
12-1518	ORGANIC	GELC	CALA-12-22822	08/27/12	R-6i	602	612
12-1518	ORGANIC	GELC	CALA-12-22819	08/27/12	R-6	1205	1228
12-1518	RAD	GELC	CALA-12-22801	08/27/12	R-6i	602	612
12-1518	RAD	GELC	CALA-12-22822	08/27/12	R-6i	602	612
12-1518	RAD	GELC	CALA-12-22819	08/27/12	R-6	1205	1228
12-1519	INORGANIC	GELC	CALA-12-22832	08/27/12	TA-53i	600	610
12-1519	INORGANIC	GELC	CALA-12-22823	08/27/12	TA-53i	600	610
12-1519	ORGANIC	GELC	CALA-12-22823	08/27/12	TA-53i	600	610
12-1519	RAD	GELC	CALA-12-22823	08/27/12	TA-53i	600	610
12-1524	INORGANIC	GELC	CALA-12-22824	08/30/12	LADP-3	316	325
12-1524	INORGANIC	GELC	CALA-12-22815	08/30/12	LADP-3	316	325
12-1524	ORGANIC	GELC	CALA-12-22815	08/30/12	LADP-3	316	325
12-1524	RAD	GELC	CALA-12-22815	08/30/12	LADP-3	316	325
12-1525	INORGANIC	GELC	CAPU-12-22840	08/29/12	R-5 S2	372.8	388.8
12-1525	INORGANIC	GELC	CAPU-12-22843	08/29/12	R-5 S2	372.8	388.8
12-1525	RAD	GELC	CAPU-12-22840	08/29/12	R-5 S2	372.8	388.8
12-1526	INORGANIC	GELC	CAPU-12-22841	08/30/12	R-5 S3	676.9	720.3
12-1526	INORGANIC	GELC	CAPU-12-22842	08/30/12	R-5 S4	858.7	863.7
12-1526	INORGANIC	GELC	CAPU-12-22844	08/30/12	R-5 S3	676.9	720.3
12-1526	INORGANIC	GELC	CAPU-12-22845	08/30/12	R-5 S4	858.7	863.7
12-1526	RAD	GELC	CAPU-12-22841	08/30/12	R-5 S3	676.9	720.3
12-1526	RAD	GELC	CAPU-12-22842	08/30/12	R-5 S4	858.7	863.7
12-1527	INORGANIC	GELC	CALA-12-22802	08/31/12	R-66	819.4	839.7
12-1527	INORGANIC	GELC	CALA-12-22830	08/31/12	R-66	819.4	839.7
12-1527	INORGANIC	GELC	CALA-12-22804	08/31/12	R-66	819.4	839.7
12-1527	INORGANIC	GELC	CALA-12-22821	08/31/12	R-66	819.4	839.7
12-1527	ORGANIC	GELC	CALA-12-22802	08/31/12	R-66	819.4	839.7
12-1527	ORGANIC	GELC	CALA-12-22821	08/31/12	R-66	819.4	839.7
12-1527	RAD	GELC	CALA-12-22802	08/31/12	R-66	819.4	839.7
12-1527	RAD	GELC	CALA-12-22821	08/31/12	R-66	819.4	839.7
12-1528	RAD	ARSL	CAPU-12-22840	08/29/12	R-5 S2	372.8	388.8

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
12-1528	RAD	ARSL	CAPU-12-22841	08/30/12	R-5 S3	676.9	720.3
12-1528	RAD	ARSL	CAPU-12-22842	08/30/12	R-5 S4	858.7	863.7
12-1531	RAD	ARSL	CALA-12-22802	08/31/12	R-66	819.4	839.7
12-1531	RAD	ARSL	CALA-12-22821	08/31/12	R-66	819.4	839.7
12-1531	RAD	ARSL	CALA-12-22815	08/30/12	LADP-3	316	325
12-1533	INORGANIC	GELC	CALA-12-22825	09/04/12	LAOI(a)-1.1	295.2	305
12-1533	INORGANIC	GELC	CALA-12-22816	09/04/12	LAOI(a)-1.1	295.2	305
12-1533	ORGANIC	GELC	CALA-12-22816	09/04/12	LAOI(a)-1.1	295.2	305
12-1533	RAD	GELC	CALA-12-22816	09/04/12	LAOI(a)-1.1	295.2	305
12-1534	INORGANIC	GELC	CALA-12-22901	09/04/12	R-8 S1	705.31	755.7
12-1534	INORGANIC	GELC	CALA-12-22895	09/04/12	R-8 S1	705.31	755.7
12-1534	RAD	GELC	CALA-12-22895	09/04/12	R-8 S1	705.31	755.7
12-1536	RAD	ARSL	CALA-12-22895	09/04/12	R-8 S1	705.31	755.7
12-1537	RAD	ARSL	CALA-12-22816	09/04/12	LAOI(a)-1.1	295.2	305
12-1538	RAD	ARSL	CALA-12-22896	09/05/12	R-8 S2	821	828
12-1540	INORGANIC	GELC	CALA-12-22902	09/05/12	R-8 S2	821	828
12-1540	INORGANIC	GELC	CALA-12-22896	09/05/12	R-8 S2	821	828
12-1540	RAD	GELC	CALA-12-22896	09/05/12	R-8 S2	821	828
12-1543	INORGANIC	GELC	CALA-12-22897	09/06/12	R-9	683	748.5
12-1543	INORGANIC	GELC	CALA-12-22898	09/06/12	R-9i S1	189.1	199.5
12-1543	INORGANIC	GELC	CALA-12-22899	09/06/12	R-9i S2	269.6	280.3
12-1543	INORGANIC	GELC	CALA-12-22903	09/06/12	R-9	683	748.5
12-1543	INORGANIC	GELC	CALA-12-22904	09/06/12	R-9i S1	189.1	199.5
12-1543	INORGANIC	GELC	CALA-12-22905	09/06/12	R-9i S2	269.6	280.3
12-1543	ORGANIC	GELC	CALA-12-22897	09/06/12	R-9	683	748.5
12-1543	RAD	GELC	CALA-12-22897	09/06/12	R-9	683	748.5
12-1543	RAD	GELC	CALA-12-22898	09/06/12	R-9i S1	189.1	199.5
12-1543	RAD	GELC	CALA-12-22899	09/06/12	R-9i S2	269.6	280.3
12-1550	INORGANIC	GELC	CALA-12-22900	09/11/12	LAOI-7	240	259.6
12-1550	INORGANIC	GELC	CALA-12-22894	09/11/12	LAOI-7	240	259.6
12-1550	ORGANIC	GELC	CALA-12-22894	09/11/12	LAOI-7	240	259.6
12-1550	RAD	GELC	CALA-12-22894	09/11/12	LAOI-7	240	259.6
12-1555	INORGANIC	GELC	CALA-12-22827	09/13/12	LAOI-3.2a	181.4	191
12-1555	INORGANIC	GELC	CALA-12-22818	09/13/12	LAOI-3.2a	181.4	191
12-1555	ORGANIC	GELC	CALA-12-22818	09/13/12	LAOI-3.2a	181.4	191
12-1555	RAD	GELC	CALA-12-22818	09/13/12	LAOI-3.2a	181.4	191

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

[b] RAD = Radiochemistry (not gamma).

[c] ARSL = American Radiation Services, Inc.

[d] STSL = Severn Trent Laboratories, Inc., St. Louis, MO.